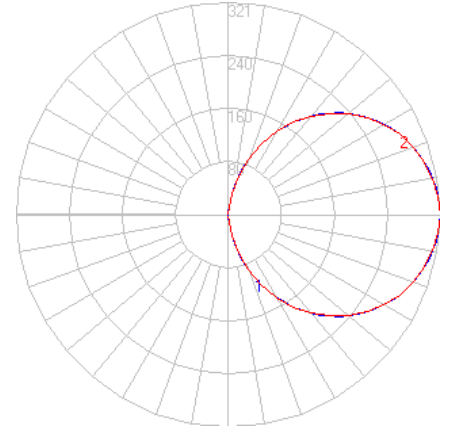


BEGA

File: 24012K4_BEGA_IES.ies

TEST: BE_24012K4
TEST LAB: BEGA
DATE: 4/11/2016
LUMINAIRE: 24 012K4
LAMP: 7.7W LED



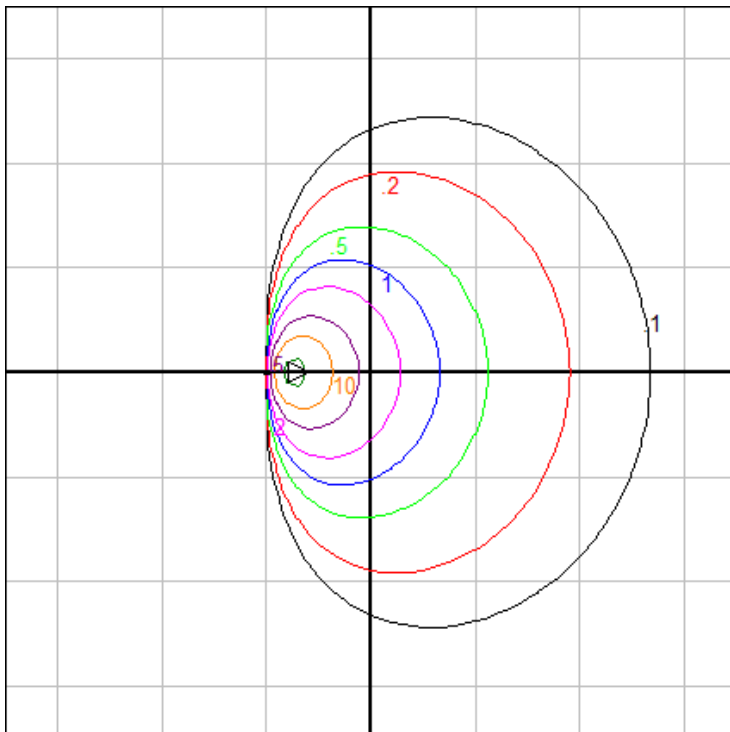
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	922
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	11
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	320.6 (0H, 90V)
Max. Cd. (<90 Vert.)	319.9 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	320.6 (34.8%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	319.9 (34.7%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

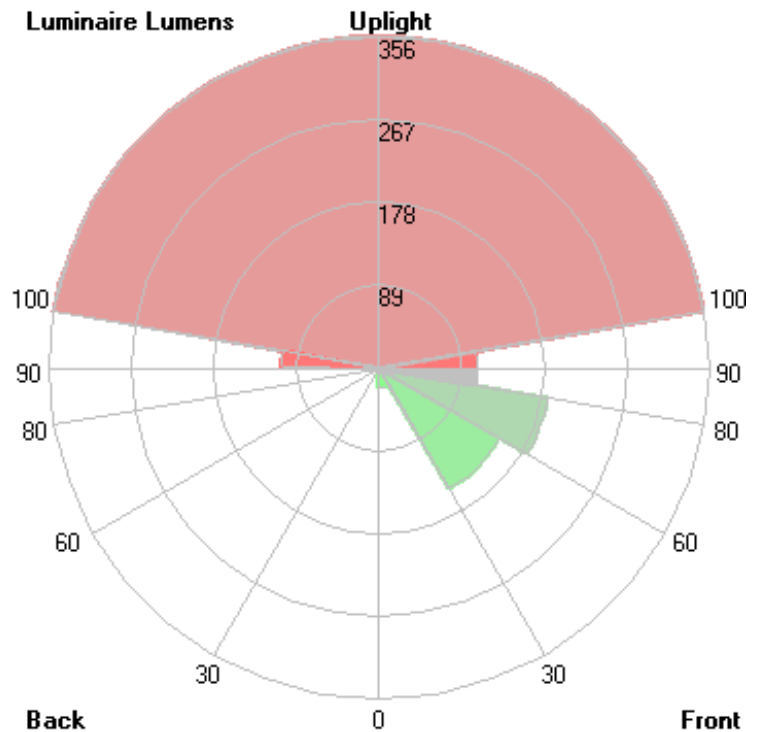
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	21.1	N.A.	2.3
FM (30-60)	150.5	N.A.	16.3
FH (60-80)	184.1	N.A.	20.0
FVH (80-90)	105.1	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	105.1	N.A.	11.4
UH (100-180)	355.8	N.A.	38.6
Total	921.7	N.A.	100.0

BUG Rating B0-U3-G2



Mounting Height: 2 ft.

Grid Spacing: 5 ft.



In the interest of product improvement, BEGA reserves the right to make technical changes without notice.

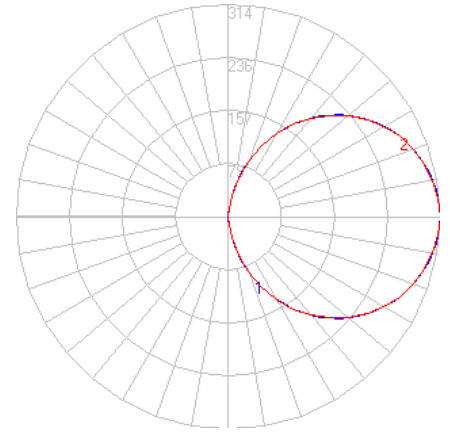
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File: 24012K35_BEGA_IES.ies

TEST: BE_24012K4
TEST LAB: BEGA
DATE: 4/11/2016
LUMINAIRE: 24 012K35
LAMP: 7.7W LED



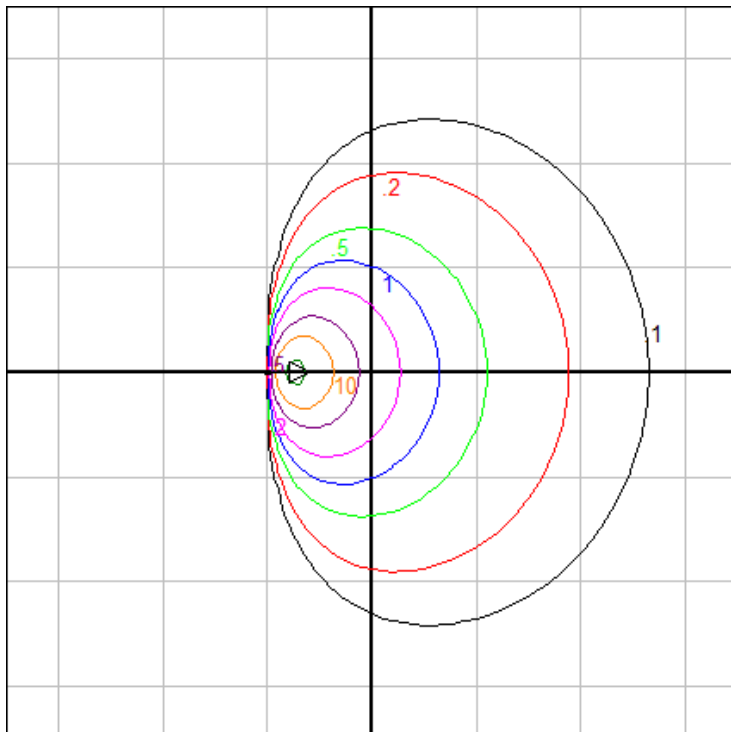
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	903
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	11
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	314.188 (0H, 90V)
Max. Cd. (<90 Vert.)	313.502 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	314.188 (34.8%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	313.502 (34.7%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

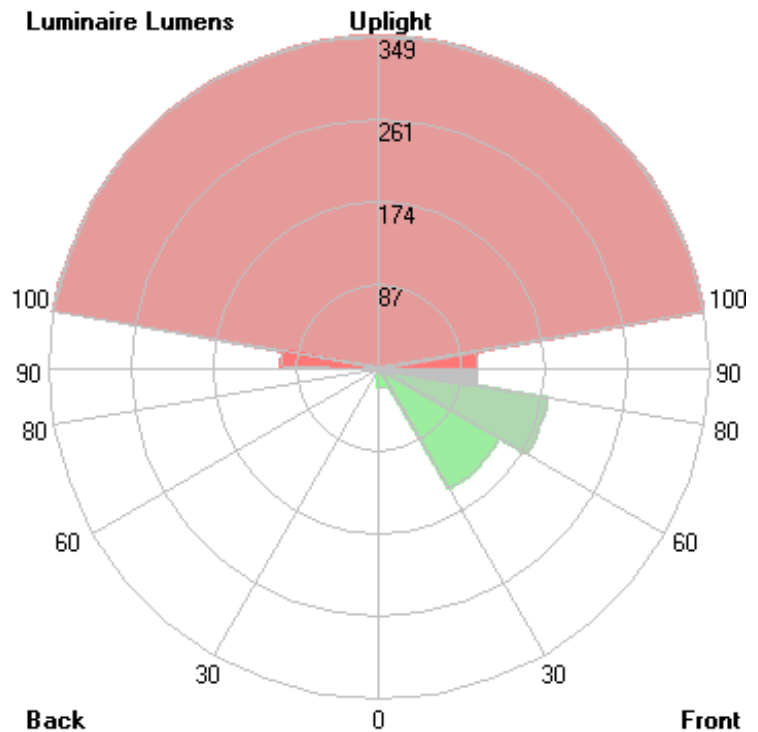
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	20.7	N.A.	2.3
FM (30-60)	147.5	N.A.	16.3
FH (60-80)	180.4	N.A.	20.0
FVH (80-90)	103.0	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	103.0	N.A.	11.4
UH (100-180)	348.6	N.A.	38.6
Total	903.2	N.A.	100.0

BUG Rating B0-U3-G2



Mounting Height: 2 ft.

Grid Spacing: 5 ft.



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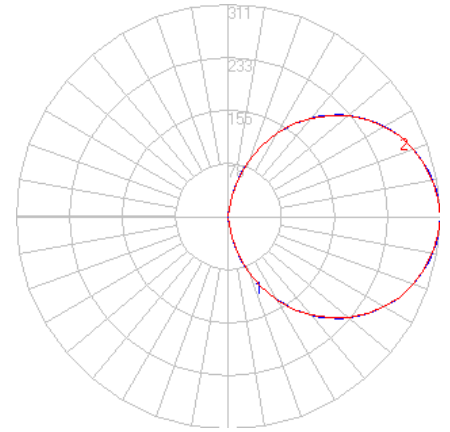
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File: 24012K3_BEGA_IES.ies

TEST: BE_24012K4
TEST LAB: BEGA
DATE: 4/11/2016
LUMINAIRE: 24 012K3
LAMP: 7.7W LED



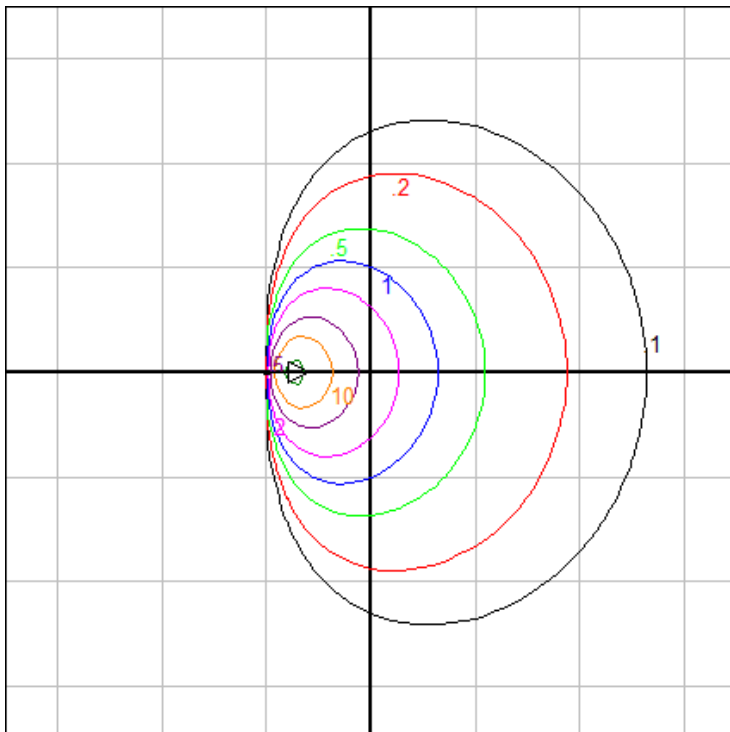
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	894
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	11
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	310.982 (0H, 90V)
Max. Cd. (<90 Vert.)	310.303 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	310.982 (34.8%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	310.303 (34.7%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

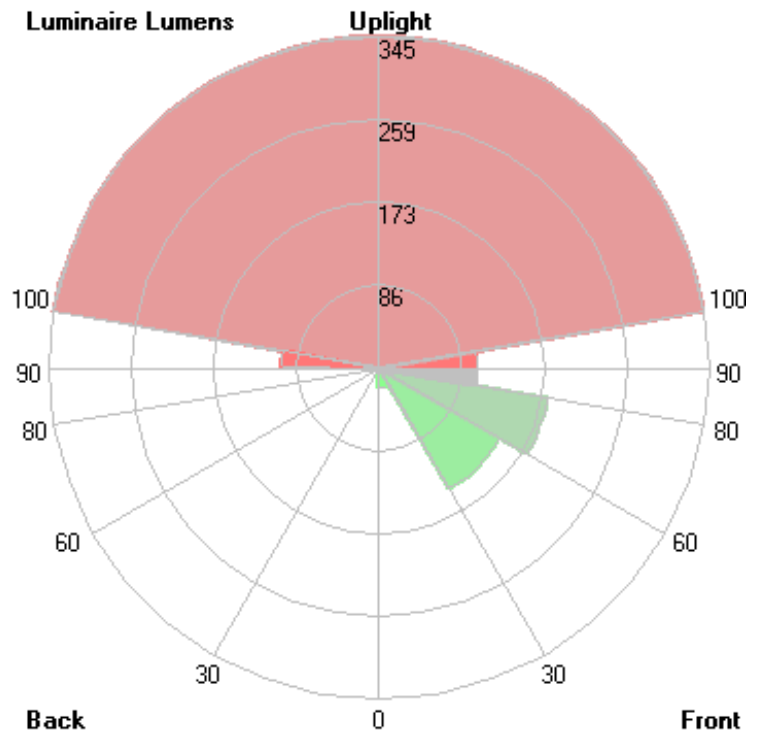
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	20.5	N.A.	2.3
FM (30-60)	146.0	N.A.	16.3
FH (60-80)	178.6	N.A.	20.0
FVH (80-90)	101.9	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	101.9	N.A.	11.4
UH (100-180)	345.1	N.A.	38.6
Total	894.0	N.A.	100.0

BUG Rating B0-U3-G2



Mounting Height: 2 ft.

Grid Spacing: 5 ft.



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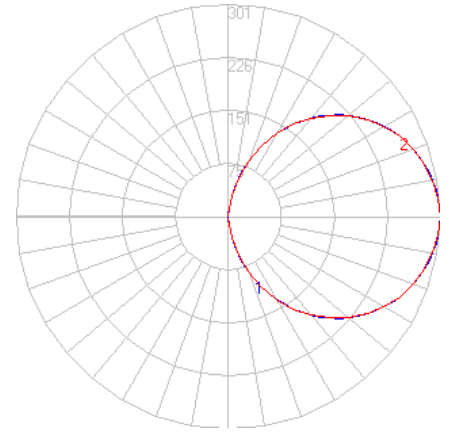
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BEGA

File: 24012K27_BEGA_IES.ies

TEST: BE_24012K4
TEST LAB: BEGA
DATE: 4/11/2016
LUMINAIRE: 24 012K27
LAMP: 7.7W LED



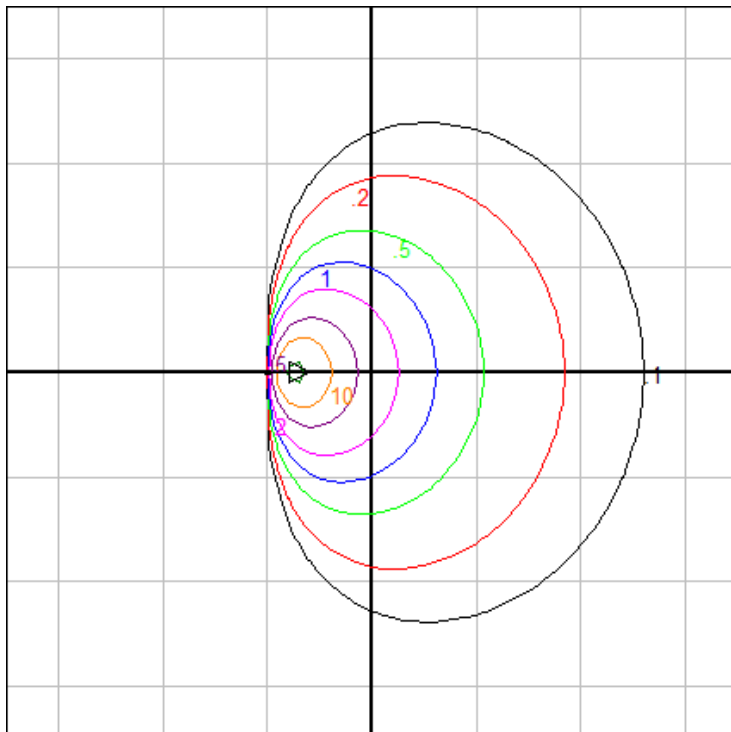
Characteristics

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	866
Downward Total Efficiency	N.A.
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	11
Ballast Factor	1.00
Upward Waste Light Ratio	0.50
Max. Cd.	301.364 (0H, 90V)
Max. Cd. (<90 Vert.)	300.706 (0H, 87.5V)
Max. Cd. (At 90 Deg. Vert.)	301.364 (34.8%Lum)
Max. Cd. (80 to <90 Deg. Vert.)	300.706 (34.7%Lum)
Cutoff Classification (deprecated)	N.A. (absolute)

Lum. Classification System (LCS)

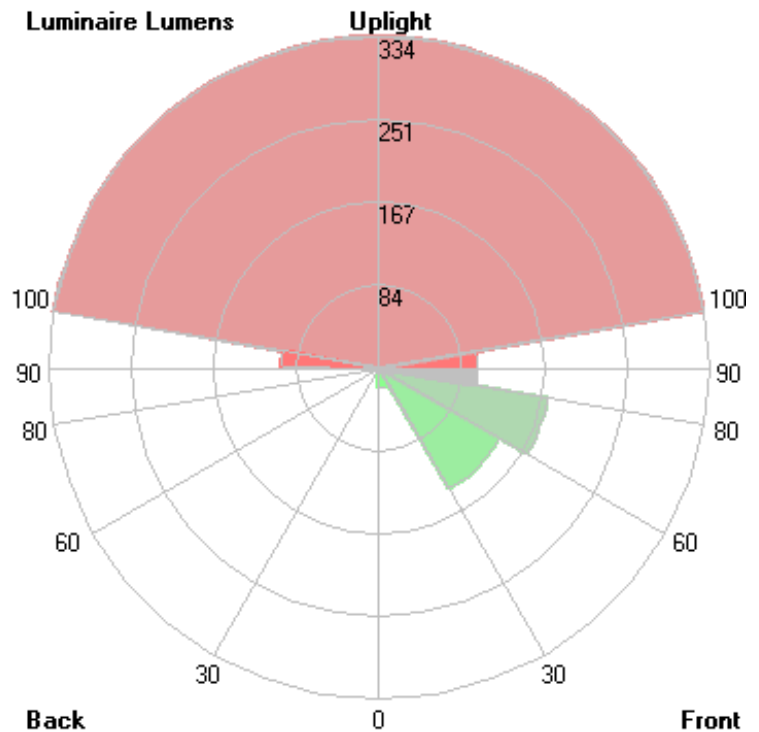
LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	19.9	N.A.	2.3
FM (30-60)	141.5	N.A.	16.3
FH (60-80)	173.1	N.A.	20.0
FVH (80-90)	98.8	N.A.	11.4
BL (0-30)	< 0.05	N.A.	0.0
BM (30-60)	< 0.05	N.A.	0.0
BH (60-80)	< 0.05	N.A.	0.0
BVH (80-90)	< 0.05	N.A.	0.0
UL (90-100)	98.8	N.A.	11.4
UH (100-180)	334.4	N.A.	38.6
Total	866.5	N.A.	100.0

BUG Rating B0-U3-G1



Mounting Height: 2 ft.

Grid Spacing: 5 ft.



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