

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P970513

Luminaire Tested: **NAV-SB6B-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-830-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31175.4 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



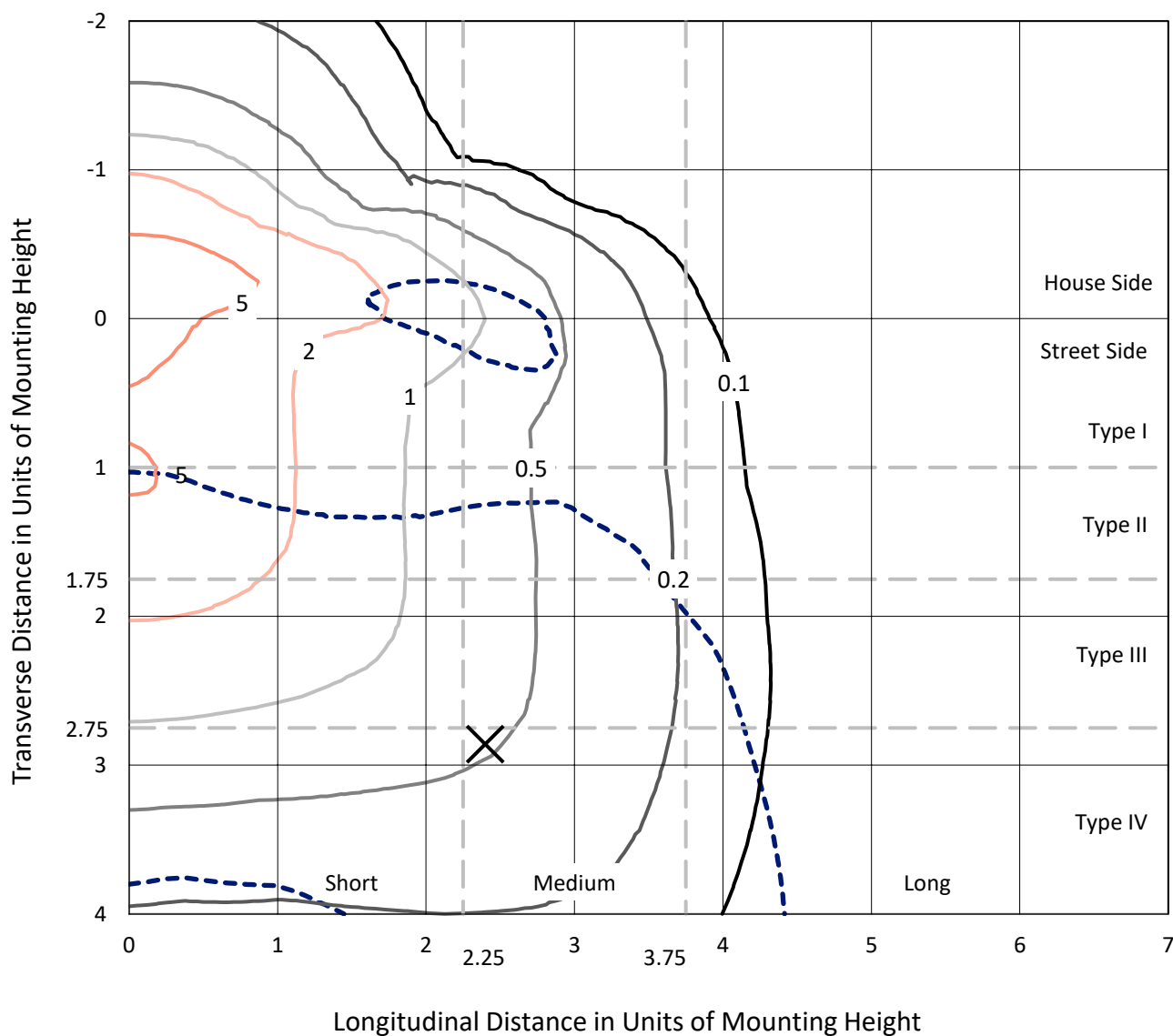
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

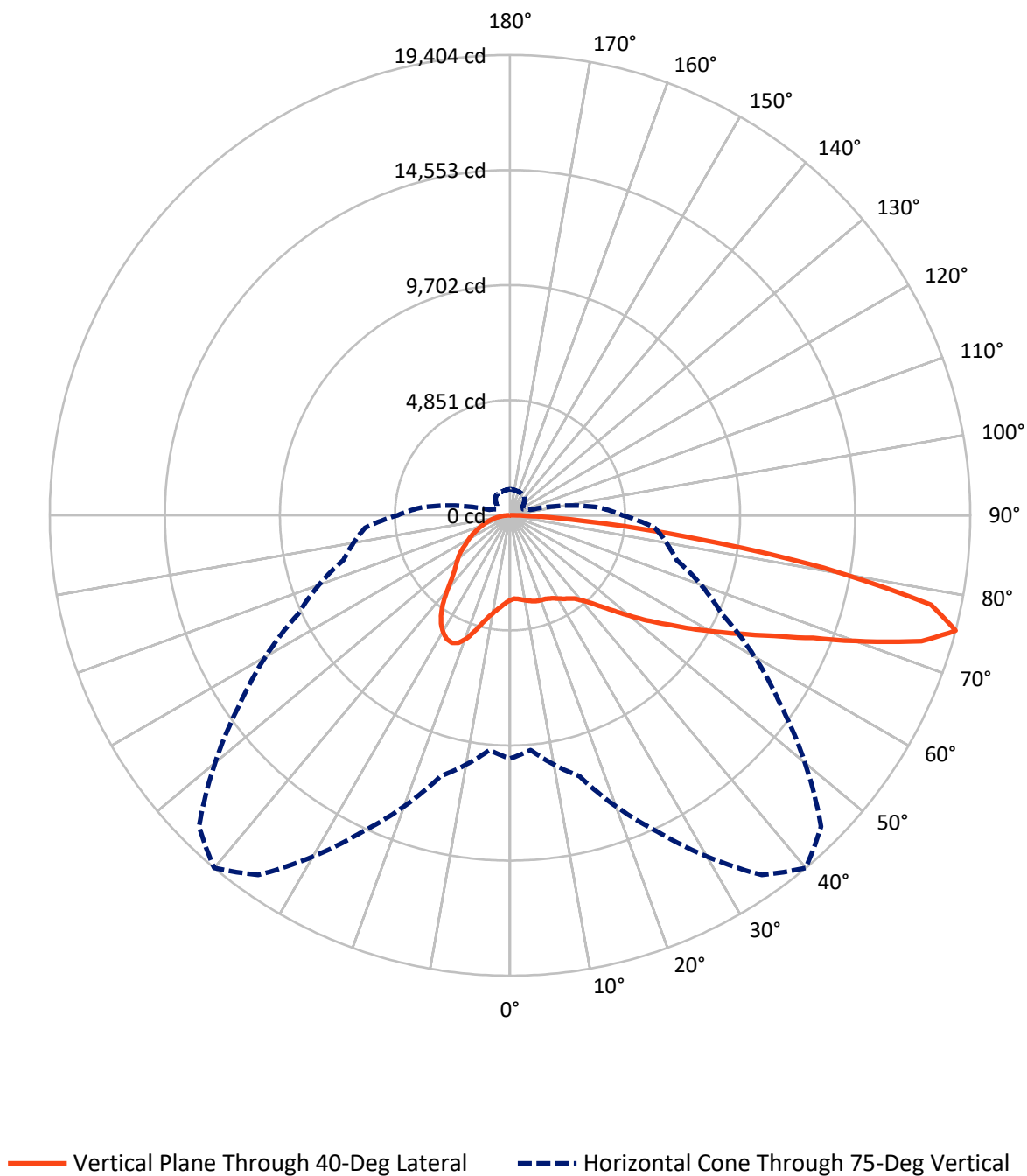
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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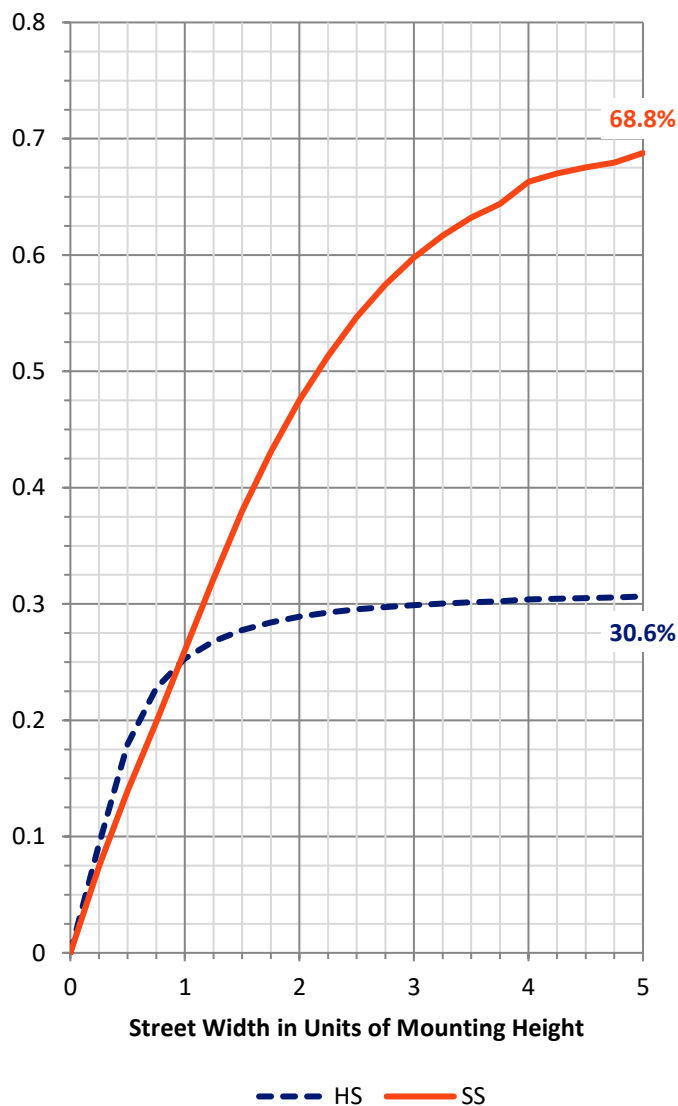
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9659.2	0.0	9659.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	21516.2	0.0	21516.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	31175.4	0.0	31175.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.9	1.1
10°-20°	1194.8	3.8
20°-30°	2181.5	7.0
30°-40°	3094.0	9.9
40°-50°	4177.8	13.4
50°-60°	5620.3	18.0
60°-70°	7133.4	22.9
70°-80°	6474.0	20.8
80°-90°	943.7	3.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	31175.4	100.0
0°-180°	31175.4	100.0

Coefficient of Utilization



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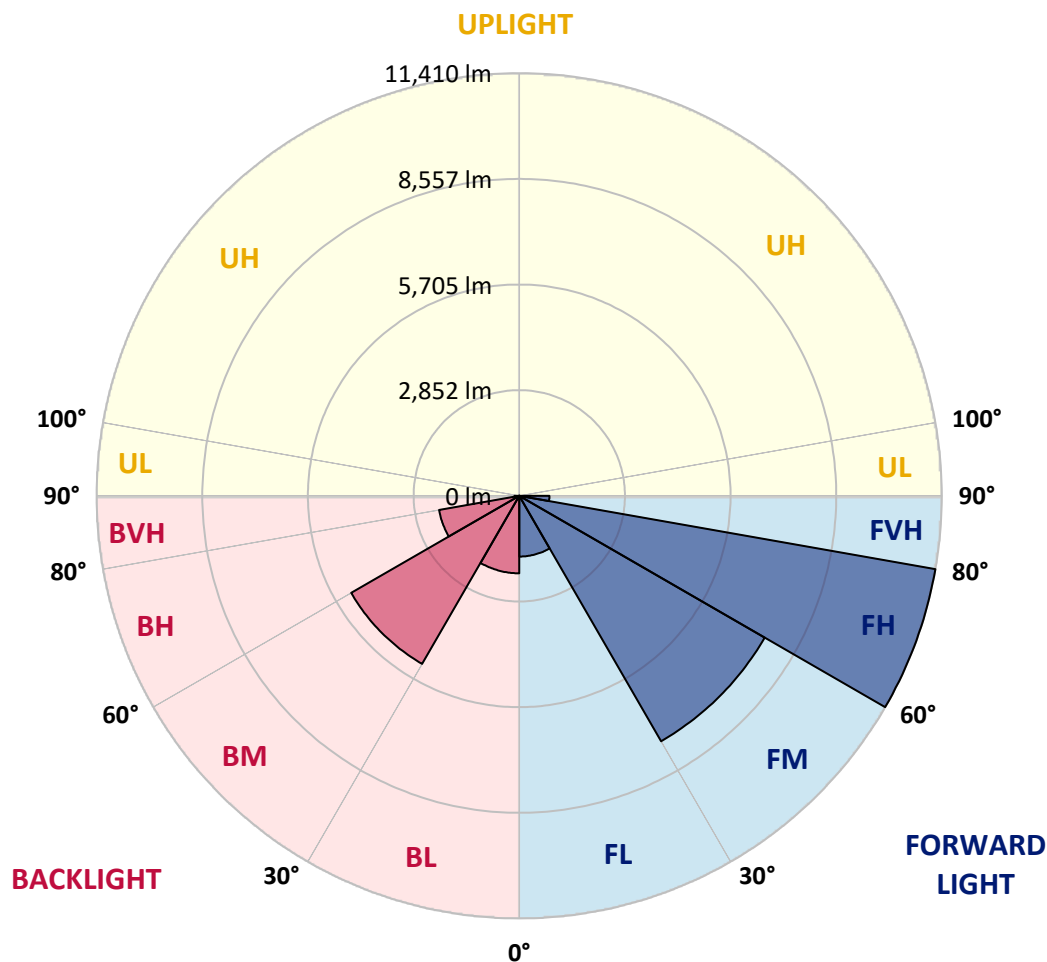
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1639.9	5.3			
FM	(30°-60°)	7652.8	24.5			
FH	(60°-80°)	11409.7	36.6			G4/12000
FVH	(80°-90°)	813.8	2.6			G5
BL	(0°-30°)	2092.3	6.7	B3/2500		
BM	(30°-60°)	5239.2	16.8	B4/8500		
BH	(60°-80°)	2197.7	7.0	B3/2500		G3/2500
BVH	(80°-90°)	129.9	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0
2.5°	3510.4	3530.2	3525.3	3518.6	3518.6	3520.3	3518.6	3530.2	3541.8	3553.4	3571.5
5°	3546.8	3566.6	3556.6	3548.4	3541.8	3540.1	3535.2	3533.5	3540.1	3555.0	3579.8
7.5°	3617.8	3637.7	3622.9	3607.9	3594.7	3588.1	3581.5	3571.5	3566.6	3574.9	3609.6
10°	3697.2	3717.1	3698.9	3672.5	3650.9	3642.6	3636.1	3626.1	3619.5	3624.5	3662.5
12.5°	3776.6	3796.4	3771.6	3735.3	3707.1	3702.2	3693.9	3690.6	3689.0	3687.3	3725.4
15°	3851.0	3867.5	3836.2	3793.1	3763.4	3755.1	3746.8	3751.8	3760.0	3770.0	3813.0
17.5°	3908.8	3925.4	3879.1	3822.9	3794.8	3791.5	3786.6	3803.1	3826.2	3851.0	3903.9
20°	3961.8	3978.3	3918.8	3842.7	3809.6	3809.6	3811.4	3846.0	3879.1	3915.5	3988.3
22.5°	4036.1	4049.5	3976.7	3872.4	3824.6	3827.9	3841.1	3875.8	3917.1	3966.7	4067.6
25°	4146.9	4156.9	4067.6	3928.7	3874.2	3884.0	3895.6	3912.2	3951.9	4009.7	4145.3
27.5°	4325.6	4333.8	4216.4	4027.9	3945.2	3961.8	3978.3	3966.7	3984.9	4034.5	4208.1
30°	4576.9	4581.9	4433.0	4183.3	4066.0	4074.3	4077.6	4029.6	3994.8	4034.5	4252.8
32.5°	4874.5	4872.8	4695.9	4371.8	4203.2	4194.9	4166.8	4072.5	3991.6	4026.3	4292.5
35°	5335.8	5317.7	5089.4	4636.4	4358.6	4307.4	4241.2	4120.5	4008.1	4018.0	4327.2
37.5°	6099.8	6043.5	5727.7	5069.6	4590.2	4459.5	4361.9	4198.2	4044.4	4014.7	4368.5
40°	6961.2	6890.2	6542.9	5663.2	4937.3	4727.4	4570.3	4309.0	4104.0	4029.6	4429.7
42.5°	7983.1	7882.2	7508.5	6362.7	5377.2	5072.9	4836.5	4449.5	4191.6	4077.6	4512.4
45°	9238.1	9104.2	8575.0	7151.4	5931.1	5526.0	5210.2	4662.8	4325.6	4170.1	4636.4
47.5°	10506.4	10539.4	9787.1	8054.2	6595.8	6084.9	5678.1	4983.7	4520.7	4318.9	4836.5
50°	11853.9	11877.1	10992.5	9054.5	7349.8	6716.5	6203.9	5342.5	4791.9	4530.6	5135.8
52.5°	12905.6	12908.8	12087.1	10101.3	8135.2	7411.0	6771.0	5752.5	5106.0	4811.7	5534.3
55°	13563.6	13555.4	12854.3	11091.6	9038.0	8140.1	7399.4	6218.8	5489.6	5142.4	6035.3
57.5°	14041.5	14016.7	13383.4	11943.2	10000.4	9001.7	8110.4	6747.9	5942.6	5535.9	6695.0
60°	14223.4	14208.6	13742.3	12679.0	11012.3	9954.1	8930.5	7339.9	6456.9	6000.6	7543.3
62.5°	14292.8	14321.0	14094.5	13391.7	12095.3	11009.0	9831.7	8047.6	7035.6	6526.4	8437.8
65°	14537.6	14588.8	14542.5	14324.3	13319.0	12244.1	11027.2	8889.2	7667.3	7090.2	9372.1
67.5°	15022.1	15073.3	15093.1	15440.4	14813.7	13783.6	12518.6	9937.6	8406.4	7675.5	10074.7
70°	15010.5	14995.5	15346.1	16328.4	16685.5	15915.0	14529.3	11227.2	9287.7	8161.7	10164.1
72.5°	13662.8	13543.8	14372.2	16318.4	18243.1	18140.6	16984.8	12890.7	10048.3	8221.2	8819.8
75°	10250.0	9932.6	11395.9	14706.2	18502.7	19403.9	18545.6	13922.5	9868.1	7263.9	6137.8
77.5°	4383.4	4064.3	5788.9	10886.6	16559.8	18138.9	17113.7	12146.7	7877.2	4803.5	3014.3
80°	1147.5	1145.8	1749.4	4935.7	11262.0	13395.0	11751.4	7844.2	4500.9	1716.4	831.7
82.5°	474.6	463.0	643.2	1919.7	5502.8	7516.8	6134.5	3498.8	1625.3	464.6	276.1
85°	176.9	175.3	312.5	663.1	1941.2	3100.3	2243.8	894.5	405.1	226.5	124.0
87.5°	49.6	48.0	67.8	229.8	472.9	717.6	383.7	147.2	114.1	89.3	36.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0	3565.0
2.5°	3576.5	3584.8	3599.7	3611.3	3626.1	3642.6	3665.8	3680.7	3695.5	3705.5	3698.9
5°	3591.4	3609.6	3647.7	3685.7	3730.3	3771.6	3819.6	3854.3	3882.4	3890.7	3894.0
7.5°	3624.5	3654.2	3718.7	3783.2	3854.3	3922.1	3991.6	4051.1	4099.0	4117.2	4118.9
10°	3682.3	3722.0	3813.0	3903.9	3998.1	4102.4	4191.6	4277.6	4345.4	4373.5	4375.1
12.5°	3755.1	3804.7	3923.8	4049.5	4180.1	4323.9	4439.7	4545.5	4629.8	4667.8	4667.8
15°	3849.4	3913.9	4066.0	4234.6	4426.5	4626.5	4773.6	4891.1	4985.3	5031.6	5028.3
17.5°	3951.9	4037.9	4229.7	4484.3	4758.8	5021.7	5193.7	5279.7	5377.2	5421.8	5420.2
20°	4051.1	4156.9	4431.4	4801.7	5167.2	5446.6	5585.5	5608.7	5615.3	5620.3	5633.5
22.5°	4153.6	4295.8	4684.4	5201.9	5593.8	5787.3	5807.1	5707.9	5569.0	5504.5	5522.7
25°	4266.0	4454.5	5015.0	5643.4	5960.9	5984.1	5831.9	5590.5	5327.5	5206.9	5225.0
27.5°	4375.1	4638.0	5411.9	6065.0	6225.4	6022.1	5694.7	5352.3	5034.9	4907.6	4922.5
30°	4484.3	4848.0	5850.1	6433.7	6346.1	5927.8	5478.0	5096.1	4776.9	4643.0	4657.9
32.5°	4595.1	5092.8	6354.4	6700.0	6324.7	5727.7	5208.5	4808.4	4527.3	4386.7	4404.9
35°	4720.7	5393.8	6832.2	6845.5	6180.7	5433.4	4853.1	4464.5	4219.7	4107.3	4132.1
37.5°	4884.4	5775.7	7253.9	6881.8	5929.4	5001.8	4411.5	4057.7	3855.9	3804.7	3841.1
40°	5087.8	6235.4	7576.3	6824.0	5557.4	4477.7	3928.7	3645.9	3531.8	3543.4	3583.1
42.5°	5352.3	6749.6	7802.9	6675.2	5039.8	3937.0	3505.4	3379.7	3434.4	3480.6	3523.6
45°	5696.3	7283.6	7943.4	6422.2	4454.5	3479.0	3255.7	3285.5	3326.8	3331.8	3364.9
47.5°	6136.2	7824.3	8036.0	6040.2	3857.6	3156.5	3097.0	3103.6	3095.4	3060.6	3087.1
50°	6685.0	8350.2	8118.7	5534.3	3350.0	2954.8	2875.4	2852.3	2738.2	2625.7	2640.6
52.5°	7310.1	8833.0	8153.4	4906.0	2954.8	2786.2	2657.2	2511.7	2298.4	2263.6	2275.2
55°	8004.6	9279.4	8064.1	4133.7	2622.5	2569.6	2374.4	2199.1	2176.0	2146.2	2151.2
57.5°	8834.7	9760.6	7882.2	3272.3	2281.9	2316.6	2126.4	2146.2	2104.9	2058.6	2050.3
60°	9742.4	10258.3	7563.1	2486.9	1929.7	2000.7	2061.9	2060.2	2048.7	2010.6	1997.4
62.5°	10559.2	10585.7	6934.7	1904.9	1620.4	1756.0	1923.0	1921.4	1911.4	1890.0	1881.7
65°	11045.4	10536.1	5886.5	1499.7	1365.8	1554.3	1734.5	1747.7	1749.4	1747.7	1747.7
67.5°	10959.4	9955.7	4447.9	1193.8	1155.8	1349.2	1547.6	1565.9	1579.1	1582.4	1585.7
70°	9987.2	8680.8	2900.2	952.4	968.9	1169.0	1370.7	1389.0	1400.6	1413.8	1420.3
72.5°	7784.7	6382.5	1660.1	770.5	805.2	1013.6	1195.5	1217.0	1223.5	1248.3	1258.3
75°	4743.9	3753.4	896.2	606.8	661.4	866.4	1021.8	1046.6	1058.2	1088.0	1091.3
77.5°	2255.4	1625.3	511.0	472.9	532.4	707.7	863.2	891.2	859.8	876.4	863.2
80°	762.3	603.5	322.5	360.5	406.7	552.3	691.2	719.2	653.1	649.8	643.2
82.5°	266.2	244.7	205.0	239.7	262.9	395.1	522.5	558.9	486.2	484.5	461.4
85°	104.1	99.2	114.1	130.6	157.1	243.0	343.9	362.1	299.3	241.4	238.1
87.5°	21.5	23.2	28.1	29.7	48.0	84.4	124.0	152.1	120.7	102.5	94.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)