

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: P971053

Luminaire Tested: **NAV-SB6C-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-830-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34822.3 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 300.9
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

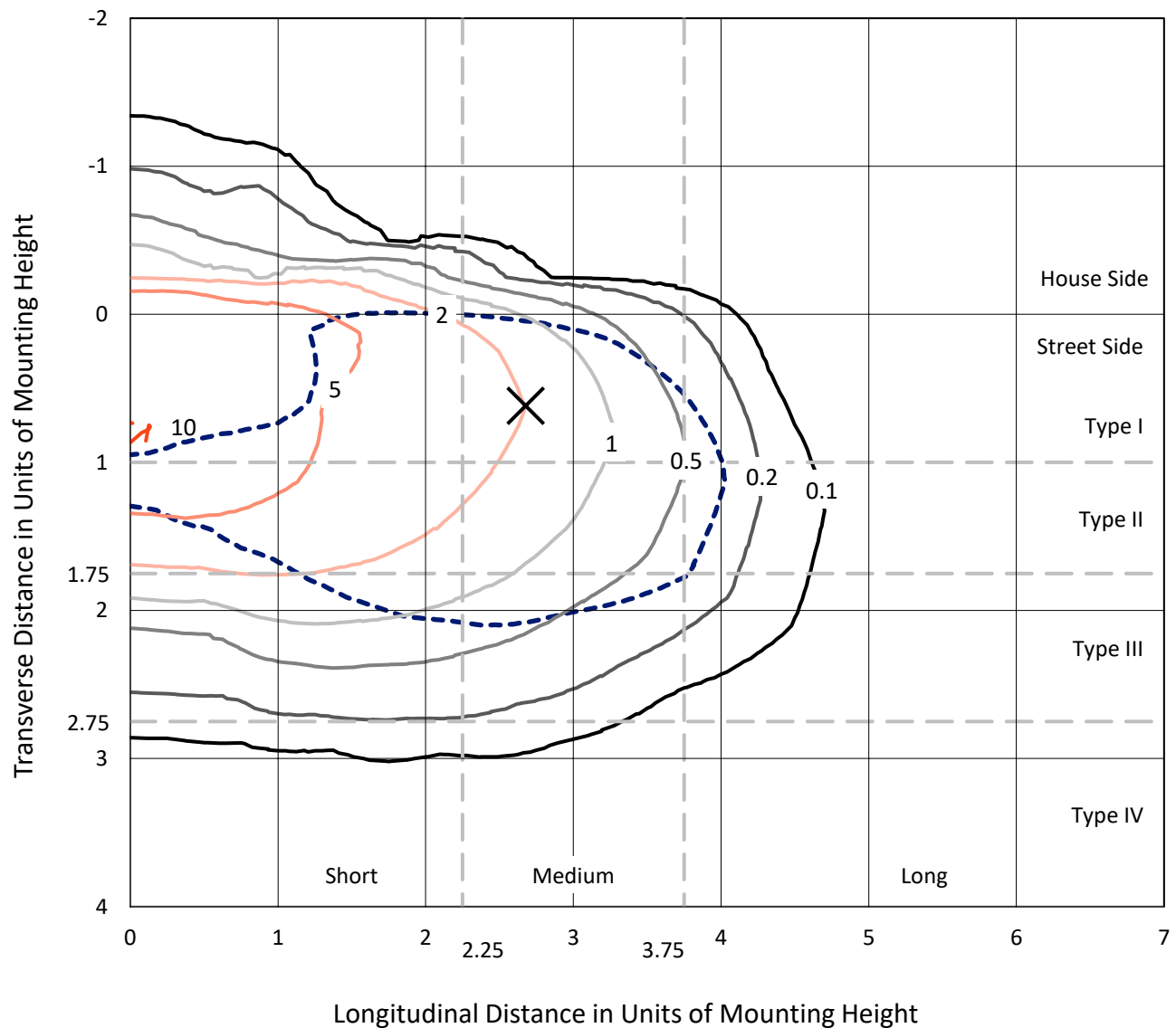


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Iso-Footcandle Lines of Horizontal Illumination

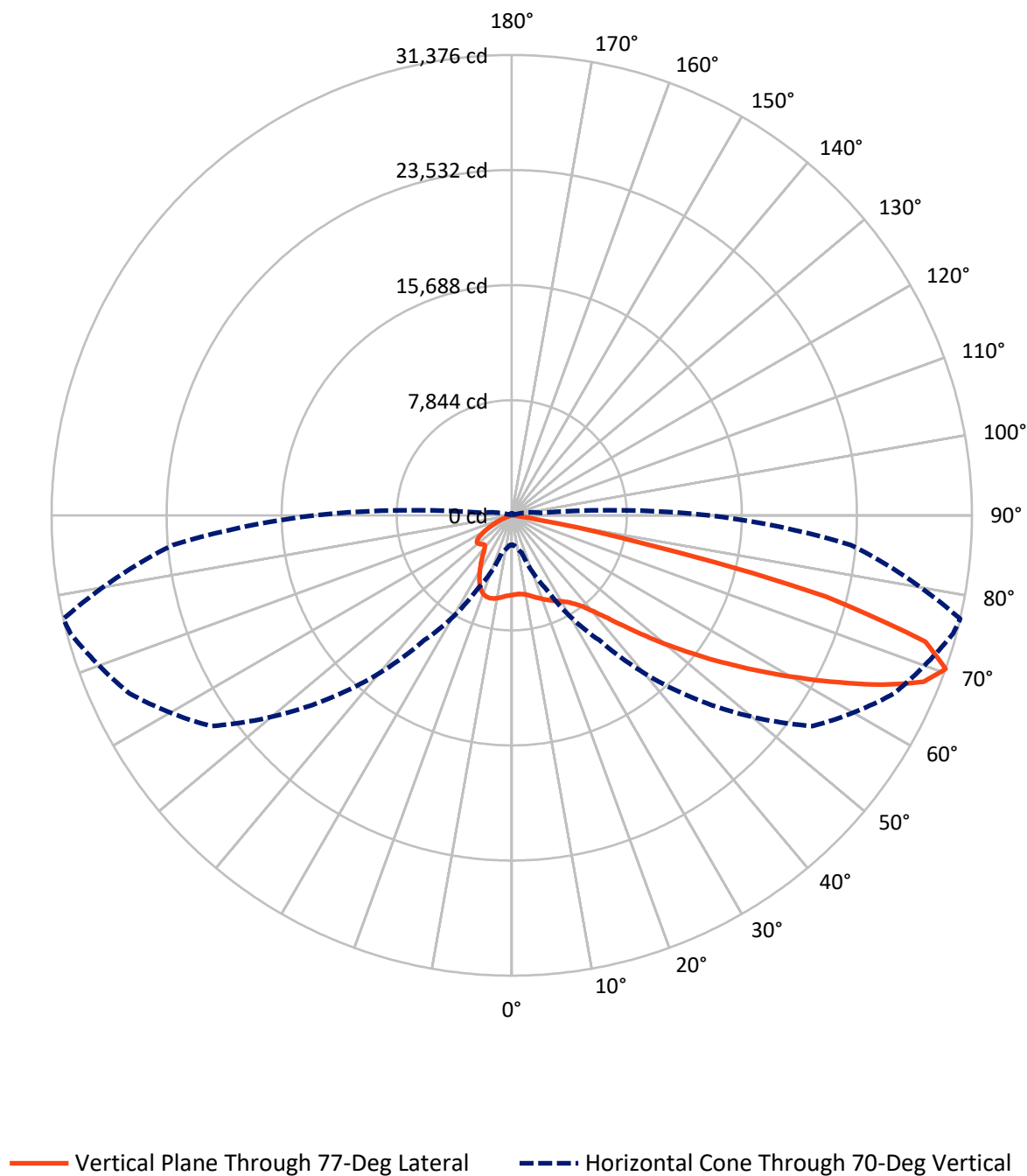
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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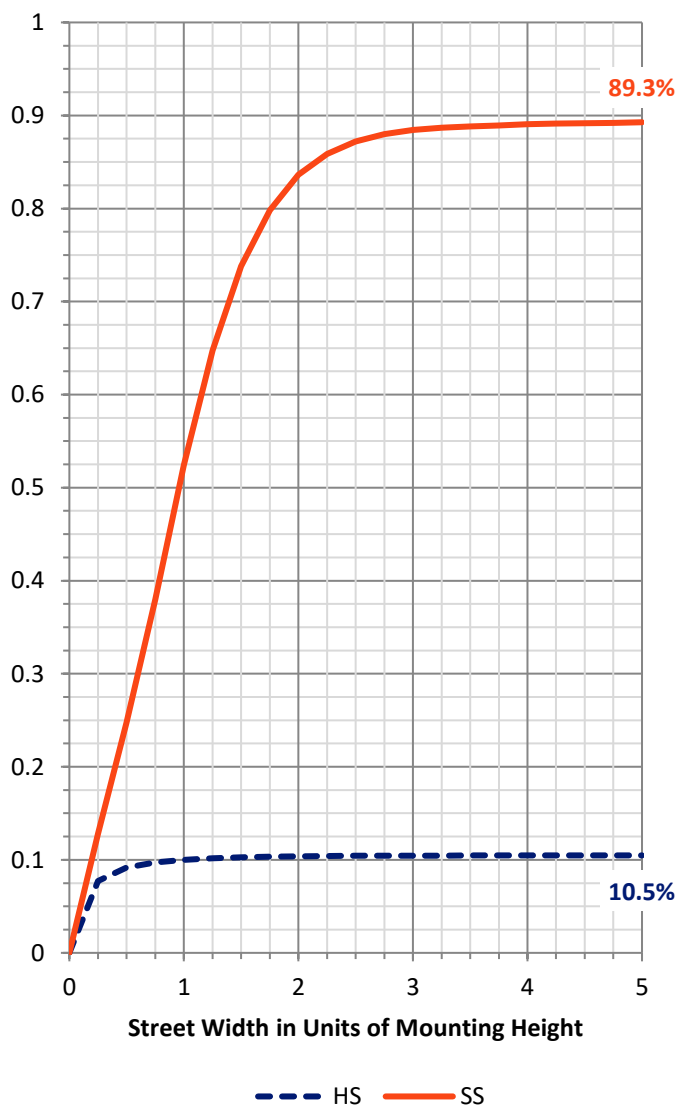
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3670.8	0.0	3670.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	31151.6	0.0	31151.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	34822.3	0.0	34822.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.1	1.3
10°-20°	1111.3	3.2
20°-30°	1718.8	4.9
30°-40°	3118.9	9.0
40°-50°	5887.3	16.9
50°-60°	8506.6	24.4
60°-70°	9055.1	26.0
70°-80°	4798.6	13.8
80°-90°	157.6	0.5
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°	34822.3	100.0
0°-180°	34822.3	100.0

Coefficient of Utilization



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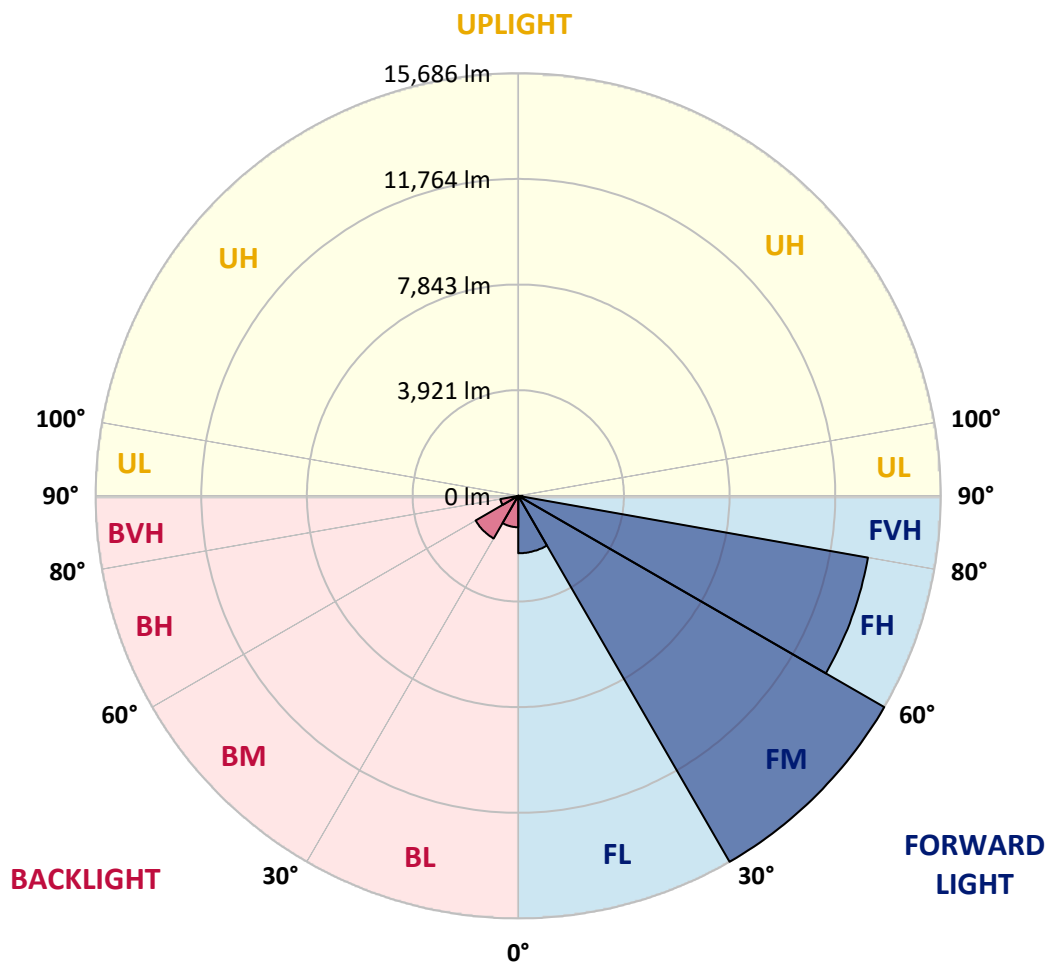
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2131.9	6.1			
FM	(30°-60°)	15685.5	45.0			
FH	(60°-80°)	13180.7	37.9			G5
FVH	(80°-90°)	153.3	0.4			G2/225
BL	(0°-30°)	1166.3	3.3	B3/2500		
BM	(30°-60°)	1827.3	5.2	B2/2500		
BH	(60°-80°)	672.9	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7
2.5°	5099.6	5145.8	5139.1	5170.0	5181.0	5224.9	5268.9	5328.3	5394.3	5392.1	5436.1
5°	4811.6	4857.7	4868.6	4910.5	4963.3	5031.4	5121.6	5240.3	5363.5	5383.3	5471.2
7.5°	4470.6	4519.0	4547.6	4631.2	4727.9	4868.6	5016.0	5189.8	5394.3	5422.9	5592.2
10°	4129.8	4173.8	4211.2	4329.9	4483.9	4692.8	4932.5	5183.1	5458.0	5499.8	5739.5
12.5°	3918.7	3960.5	4002.3	4105.6	4296.9	4552.0	4877.5	5214.0	5563.6	5622.9	5939.7
15°	3844.0	3881.4	3914.3	4006.6	4184.8	4475.0	4866.5	5277.7	5697.8	5776.9	6181.6
17.5°	3854.9	3874.7	3896.7	3967.1	4140.8	4439.9	4886.3	5387.7	5856.0	5926.4	6423.5
20°	3918.7	3929.7	3931.9	3980.3	4134.2	4435.5	4925.8	5493.2	6005.6	6100.2	6663.1
22.5°	4000.1	4004.5	4000.1	4033.1	4176.0	4468.5	4978.6	5620.8	6172.8	6260.7	6905.0
25°	4380.5	4296.9	4191.4	4127.6	4246.4	4532.2	5057.9	5792.3	6355.2	6441.0	7140.4
27.5°	5561.4	5321.7	4943.5	4519.0	4391.5	4624.6	5167.7	5966.0	6540.0	6617.0	7393.2
30°	7479.0	7164.5	6522.4	5565.7	4857.7	4818.1	5310.7	6139.7	6735.7	6819.2	7663.7
32.5°	9400.9	9324.0	8582.9	7259.0	5906.7	5249.1	5548.2	6375.1	6995.2	7061.1	8028.7
35°	11344.9	11188.8	10581.8	9273.4	7523.0	6126.5	5944.1	6682.9	7336.0	7410.7	8560.9
37.5°	12833.6	12739.1	12363.0	11285.6	9440.6	7481.2	6621.3	7160.1	7830.8	7914.3	9242.6
40°	14148.7	14104.7	13977.2	13266.9	11584.6	9253.6	7674.7	7899.0	8516.9	8615.8	10078.2
42.5°	15182.2	15285.6	15358.2	15160.3	13794.7	11276.7	9090.8	8937.0	9473.5	9574.6	11142.6
45°	16240.0	16275.2	16567.7	16853.6	15989.3	13392.2	10687.4	10153.0	10663.2	10788.5	12418.1
47.5°	16919.5	17060.2	17574.9	18078.4	17834.3	15490.1	12402.6	11589.0	12042.0	12277.3	13847.4
50°	16970.1	17236.2	17944.3	18821.7	19178.0	17486.8	14267.5	13225.1	13706.7	13966.1	15373.6
52.5°	16127.9	16541.2	17638.6	18922.8	19903.6	19178.0	16196.0	14861.2	15479.1	15817.8	16956.9
55°	12365.3	12906.2	16488.5	18373.0	19932.1	20459.9	18074.0	16565.4	17453.9	17836.5	18667.7
57.5°	10773.2	11045.8	12963.4	17418.6	19402.2	20976.7	19771.6	18188.3	19602.3	20077.3	20284.0
60°	8963.3	9321.8	10872.1	15857.4	18683.1	21027.4	21271.4	20281.9	21931.1	22465.5	21766.2
62.5°	6091.4	6480.6	8022.2	13174.5	17700.1	21003.2	22500.7	22436.9	24519.4	25093.3	23021.8
65°	3773.5	4017.7	5033.7	10757.8	16325.8	21029.5	23787.2	25053.8	27250.6	27833.4	23993.8
67.5°	2981.9	3094.1	3624.0	8259.7	13957.3	20435.7	25071.4	27514.5	29821.4	30283.1	24290.8
70°	2003.4	2071.5	2636.7	5537.3	10383.9	17695.8	25047.2	28750.4	31145.1	31376.1	23208.8
72.5°	1055.5	1108.3	1541.5	2564.1	6271.7	12578.6	21113.1	27272.6	29827.9	29480.4	19837.6
75°	527.8	615.7	1037.9	1301.9	2678.4	7015.0	13110.8	21502.3	23477.0	22131.3	12728.1
77.5°	400.3	483.8	857.6	857.6	932.4	2361.8	5552.6	11727.5	10817.1	9007.3	3736.2
80°	255.1	329.8	749.9	648.7	389.2	600.3	1447.0	3285.3	2298.0	1748.2	679.5
82.5°	149.5	215.6	624.5	428.9	217.7	222.1	409.0	699.3	595.9	464.0	208.9
85°	59.3	140.7	428.9	169.3	85.8	54.9	123.1	149.5	123.1	92.4	52.8
87.5°	0.0	33.0	74.7	0.0	6.6	4.4	8.8	11.0	11.0	8.8	17.6
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°	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7	5431.7
2.5°	5455.9	5460.3	5473.4	5475.7	5444.8	5405.2	5389.9	5383.3	5356.9	5354.7	5359.1
5°	5521.8	5541.6	5521.8	5464.7	5328.3	5137.0	4991.9	4873.1	4765.3	4732.3	4712.5
7.5°	5653.8	5673.6	5614.1	5389.9	5046.8	4666.4	4323.3	4081.4	3863.7	3782.4	3749.3
10°	5842.9	5869.3	5682.4	5229.3	4622.4	4011.0	3430.5	3021.5	2702.6	2572.9	2517.9
12.5°	6080.4	6091.4	5719.7	4985.3	4070.5	3197.4	2374.9	1937.4	1653.7	1548.2	1515.2
15°	6342.1	6326.7	5724.1	4653.2	3318.3	2260.6	1550.3	1273.3	1158.9	1123.7	1123.7
17.5°	6617.0	6553.1	5636.2	4173.8	2493.7	1545.9	1150.2	1084.1	1064.4	1055.5	1053.4
20°	6887.4	6744.5	5475.7	3547.1	1790.1	1154.5	1044.6	1024.8	1013.7	1009.3	1005.0
22.5°	7133.7	6889.6	5200.7	2819.2	1299.6	1020.4	987.4	969.8	950.0	941.2	939.0
25°	7373.4	6973.2	4813.7	2139.7	1040.2	954.4	928.0	895.0	868.6	857.6	853.2
27.5°	7606.5	7026.0	4329.9	1583.3	928.0	892.8	844.4	798.3	778.5	774.1	769.7
30°	7855.0	7043.6	3780.2	1180.9	859.9	815.8	745.5	692.7	681.7	683.9	683.9
32.5°	8158.5	7069.9	3226.0	967.6	802.7	723.4	639.9	585.0	576.2	585.0	582.7
35°	8521.3	7122.7	2691.6	890.6	752.0	628.9	538.7	492.6	483.8	490.4	488.2
37.5°	9014.0	7208.5	2192.5	875.2	710.3	549.8	453.0	415.6	415.6	417.8	415.6
40°	9669.2	7437.2	1746.1	864.2	688.3	490.4	382.6	367.3	373.8	378.2	378.2
42.5°	10467.5	7923.1	1444.7	851.1	664.1	464.0	347.5	340.8	351.9	356.3	356.3
45°	11362.5	8538.9	1339.3	829.0	642.2	481.5	332.1	323.3	336.4	338.7	340.8
47.5°	12288.3	9141.5	1326.0	804.8	620.1	508.0	327.7	307.9	323.3	325.4	327.7
50°	13225.1	9535.1	1339.3	767.4	585.0	508.0	329.8	292.4	305.7	312.2	314.5
52.5°	14168.5	9715.4	1330.4	686.1	523.4	477.2	329.8	279.3	292.4	296.8	296.8
55°	15083.3	9680.2	1196.3	565.2	444.2	422.2	321.0	268.2	277.1	279.3	279.3
57.5°	15806.7	9189.8	947.8	439.8	360.6	351.9	292.4	255.1	261.7	259.5	259.5
60°	16185.1	8112.3	677.3	338.7	283.7	277.1	257.3	237.5	241.9	230.9	228.7
62.5°	16189.4	6687.3	453.0	268.2	226.5	219.9	219.9	213.3	208.9	187.0	180.3
65°	15844.1	5106.2	301.2	213.3	182.6	171.5	184.7	182.6	167.2	136.3	131.9
67.5°	15061.2	3346.9	228.7	167.2	140.7	134.2	147.3	154.0	143.0	114.4	112.1
70°	13451.6	1948.3	189.1	129.8	105.6	98.9	118.8	131.9	118.8	92.4	87.9
72.5°	11173.4	1051.1	154.0	96.8	72.6	66.0	94.6	107.7	94.6	68.2	66.0
75°	7250.2	562.9	118.8	63.8	37.4	41.8	70.4	79.1	66.0	44.0	39.6
77.5°	2434.4	248.5	74.7	30.7	17.6	17.6	41.8	48.4	30.7	15.4	13.2
80°	543.1	103.3	30.7	13.2	6.6	6.6	8.8	8.8	4.4	0.0	0.0
82.5°	178.1	41.8	13.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	68.2	15.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)