

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: P970015

Luminaire Tested: **NAV-SB6A-835-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-835-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25275.5 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

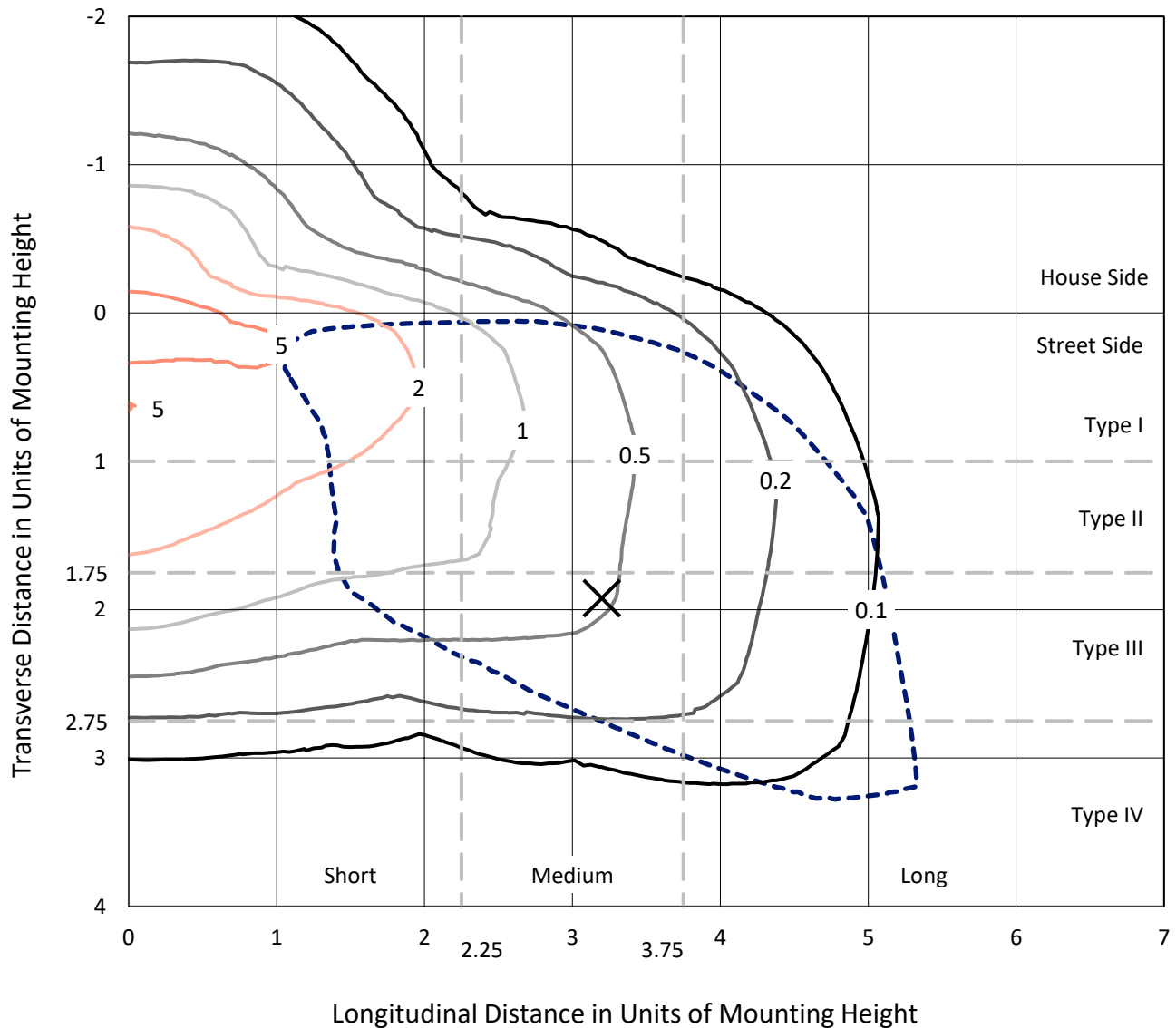
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

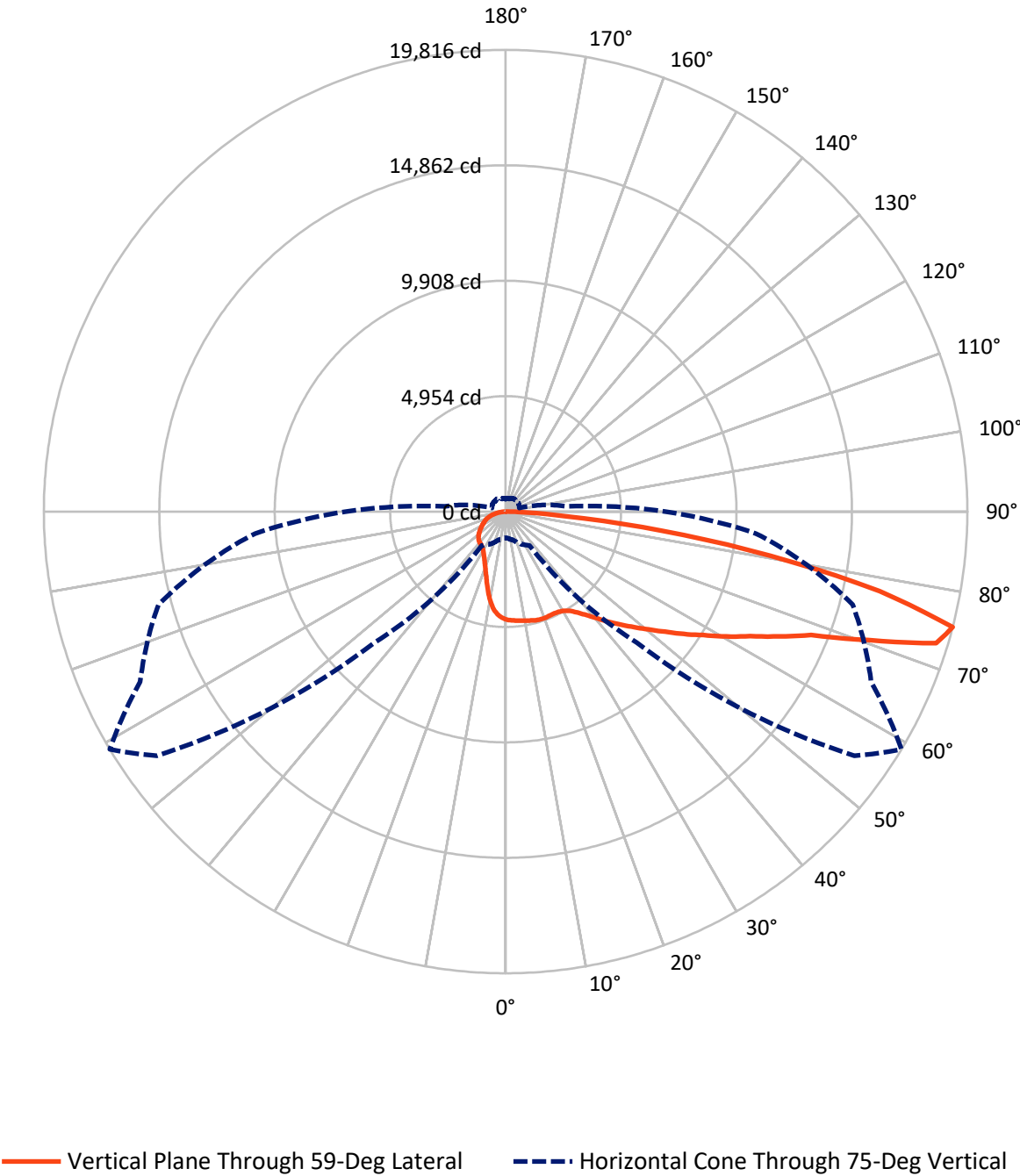
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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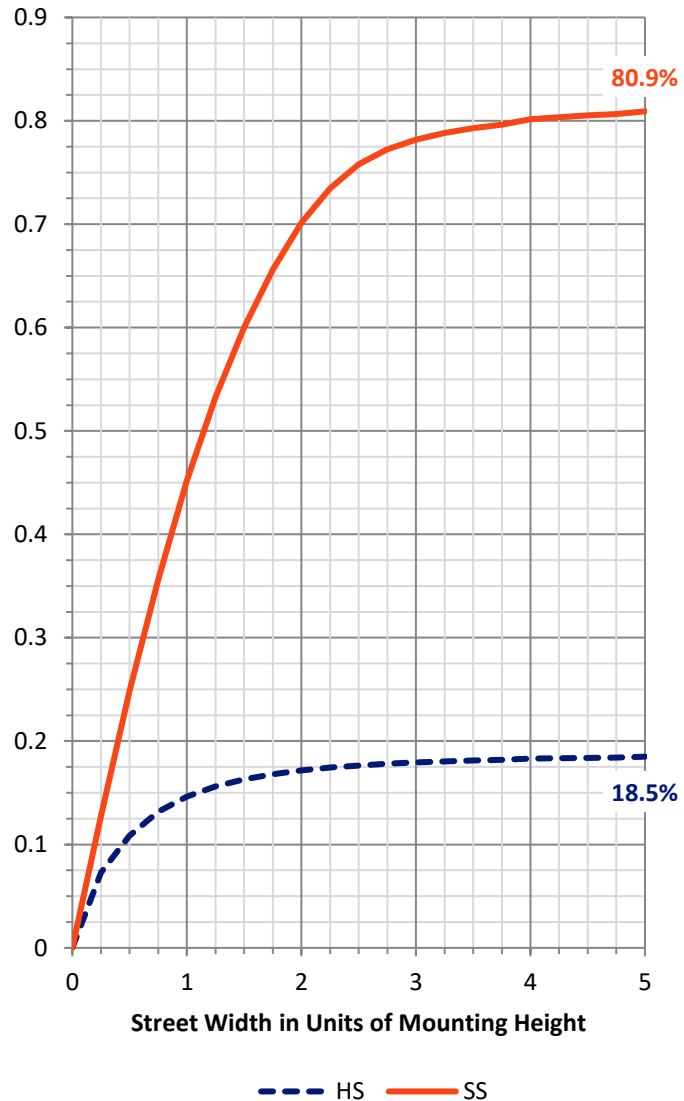
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4740.6	0.0	4740.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	20534.9	0.0	20534.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	25275.5	0.0	25275.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.0	1.6
10°-20°	1063.3	4.2
20°-30°	1615.0	6.4
30°-40°	2400.7	9.5
40°-50°	3570.3	14.1
50°-60°	4846.2	19.2
60°-70°	5916.5	23.4
70°-80°	4643.2	18.4
80°-90°	804.3	3.2
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°	25275.5	100.0
0°-180°	25275.5	100.0

Coefficient of Utilization



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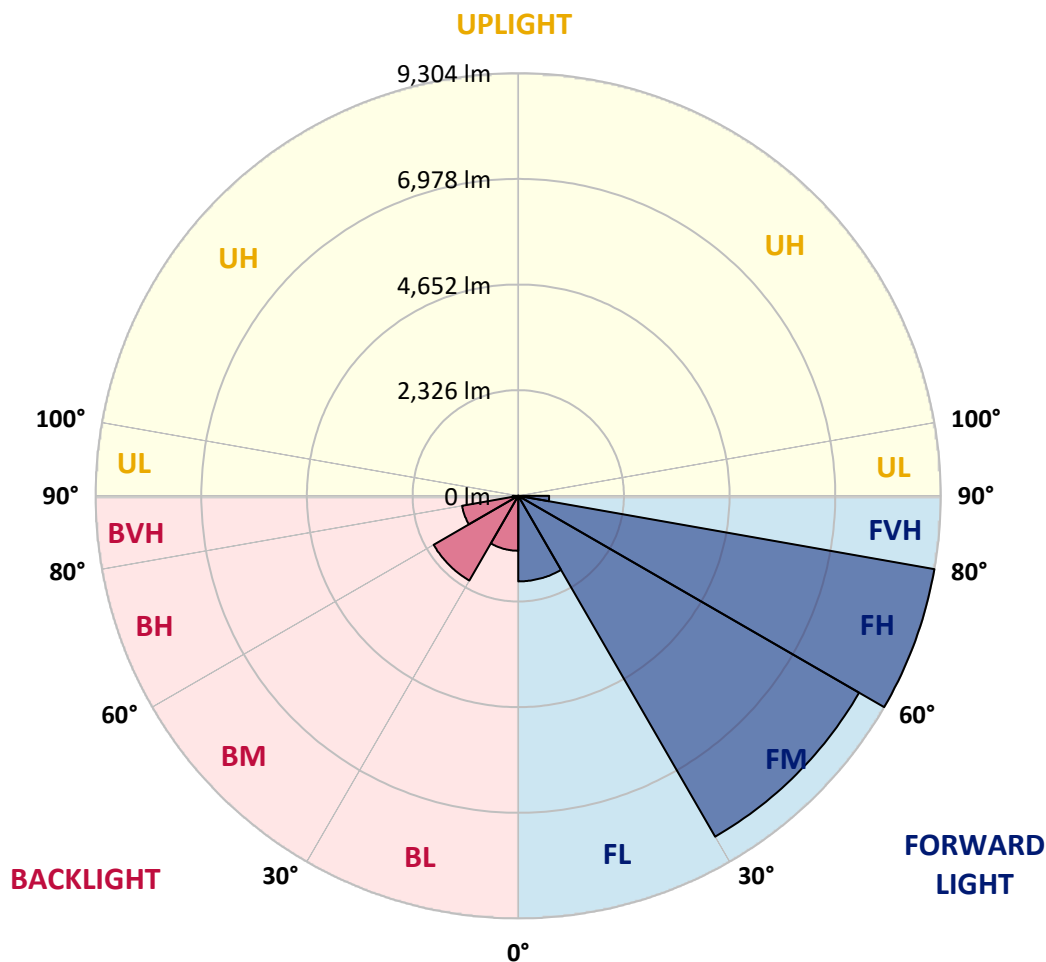
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1884.6	7.5			
FM	(30°-60°)	8665.5	34.3			
FH	(60°-80°)	9303.7	36.8			G4/12000
FVH	(80°-90°)	681.2	2.7			G4/750
BL	(0°-30°)	1209.7	4.8	B3/2500		
BM	(30°-60°)	2151.8	8.5	B2/2500		
BH	(60°-80°)	1256.0	5.0	B3/2500		G3/2500
BVH	(80°-90°)	123.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4639.3	4639.3	4639.3	4639.3	4639.3	4639.3	4639.3	4639.3	4639.3	4639.3	4639.3
2.5°	4678.7	4662.4	4678.7	4671.8	4669.2	4663.8	4665.1	4674.6	4669.2	4675.9	4652.9
5°	4647.5	4637.9	4654.2	4650.1	4667.8	4670.5	4688.2	4699.1	4705.9	4707.2	4689.6
7.5°	4595.8	4586.3	4609.3	4628.4	4666.4	4677.3	4714.1	4731.7	4741.2	4757.5	4731.7
10°	4406.8	4402.7	4459.8	4531.8	4621.6	4677.3	4733.0	4763.0	4777.9	4821.5	4791.6
12.5°	4072.2	4077.7	4152.5	4291.2	4470.6	4650.1	4754.9	4798.3	4821.5	4875.8	4862.3
15°	3752.7	3751.4	3833.0	3981.2	4232.7	4530.5	4765.7	4840.5	4879.9	4960.2	4949.3
17.5°	3567.8	3562.4	3619.5	3732.3	3966.2	4346.9	4738.5	4863.6	4947.9	5048.5	5039.0
20°	3533.8	3522.9	3552.9	3608.6	3774.5	4145.7	4667.8	4863.6	5002.3	5132.8	5127.4
22.5°	3657.6	3639.9	3627.7	3620.8	3694.3	3979.8	4587.6	4847.3	5082.6	5253.8	5244.3
25°	3906.4	3879.2	3816.7	3755.5	3733.7	3905.0	4516.9	4843.2	5202.2	5417.0	5381.7
27.5°	4308.9	4274.9	4148.4	4001.6	3869.7	3943.1	4485.6	4867.7	5334.1	5589.6	5519.0
30°	4807.9	4771.2	4612.1	4386.4	4149.8	4084.5	4525.1	4939.8	5502.6	5819.4	5680.8
32.5°	5255.2	5214.4	5078.5	4848.7	4529.2	4329.3	4650.1	5077.0	5767.8	6139.0	5924.2
35°	5652.3	5604.6	5482.3	5270.1	4994.1	4673.3	4875.8	5320.5	6144.5	6658.4	6254.5
37.5°	6041.1	5985.4	5852.1	5627.8	5434.7	5131.5	5187.2	5633.2	6644.8	7289.3	6692.4
40°	6476.2	6396.0	6234.2	6012.5	5824.9	5668.6	5596.5	6016.6	7153.3	7993.6	7239.0
42.5°	6897.7	6821.6	6628.5	6439.5	6204.2	6159.4	6071.0	6465.3	7709.4	8767.2	7793.7
45°	7351.8	7260.7	7026.9	6787.6	6639.3	6485.7	6530.6	6914.0	8254.6	9555.9	8375.7
47.5°	7777.4	7675.4	7399.5	7133.0	7051.4	6760.4	6952.1	7407.6	8821.7	10355.4	8952.1
50°	8007.2	7906.5	7676.8	7436.2	7372.2	7098.9	7408.9	7950.1	9415.9	11152.2	9505.5
52.5°	8198.9	8090.1	7789.7	7656.4	7637.4	7467.4	7971.8	8570.1	10010.0	11856.5	10040.0
55°	8402.8	8281.9	7898.4	7778.8	7865.7	7880.7	8639.4	9273.1	10638.2	12543.1	10544.4
57.5°	8638.1	8484.4	8003.1	7882.1	8088.8	8364.8	9406.3	10001.8	11255.5	13179.4	10993.1
60°	8859.7	8704.7	8204.4	8046.7	8329.5	8926.3	10286.1	10884.3	11954.4	13746.5	11417.3
62.5°	8903.3	8775.4	8364.8	8363.5	8655.8	9581.7	11327.6	11774.9	12564.9	14306.6	11798.1
65°	8150.0	8069.7	7826.4	8351.2	9123.5	10525.3	12487.4	12914.3	13341.3	14796.1	12132.5
67.5°	6202.9	6213.8	6196.1	7209.0	8745.5	11881.0	14166.6	14133.9	14299.9	15345.5	12517.3
70°	2836.3	2900.2	3316.3	4976.5	7006.5	12037.3	16943.0	16520.2	15503.1	16056.5	12850.4
72.5°	1532.4	1581.3	1751.3	2410.7	4212.3	10702.1	19018.0	19318.5	17103.6	16535.2	12484.7
75°	1124.4	1151.7	1270.0	1532.4	1768.9	7954.2	18274.2	19816.1	17303.4	15418.9	10780.9
77.5°	841.6	853.9	950.4	1214.2	905.6	4193.3	14601.7	16411.5	14812.5	12668.2	7963.7
80°	610.5	624.1	696.2	911.0	635.0	1533.7	10026.3	11519.3	10144.6	8075.2	3968.9
82.5°	421.5	426.9	458.2	620.0	443.2	595.5	5689.0	6755.0	5663.1	2833.6	1071.4
85°	254.3	261.1	274.7	361.7	251.5	282.8	2455.6	2539.8	1692.8	677.1	333.1
87.5°	104.7	111.5	122.4	152.3	99.2	78.8	405.2	508.5	316.8	198.5	103.3
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°	4639.3	4639.3	4639.3	4639.3	4639.3	4639.3	4639.3	4639.3	4639.3	4639.3	4639.3
2.5°	4646.0	4636.6	4610.7	4575.4	4542.7	4501.9	4484.3	4469.3	4455.7	4429.8	4417.6
5°	4674.6	4648.8	4579.4	4489.7	4387.7	4276.2	4167.4	4092.6	4028.8	3981.2	3941.7
7.5°	4718.1	4669.2	4542.7	4359.1	4125.3	3886.0	3669.8	3516.2	3400.5	3358.4	3285.0
10°	4763.0	4704.5	4484.3	4160.7	3756.8	3388.3	3101.4	2943.7	2851.2	2821.3	2775.1
12.5°	4816.1	4730.4	4393.2	3884.6	3344.9	2941.0	2690.8	2598.4	2550.8	2534.4	2538.5
15°	4893.6	4752.1	4255.8	3539.2	2951.9	2614.7	2452.9	2389.0	2364.5	2363.1	2368.6
17.5°	4952.0	4756.2	4042.4	3169.4	2650.0	2417.6	2284.3	2259.8	2276.1	2300.6	2310.1
20°	5017.3	4719.5	3762.3	2832.3	2438.0	2244.9	2189.1	2205.4	2244.9	2280.2	2292.4
22.5°	5063.5	4652.9	3423.7	2569.8	2254.4	2145.6	2142.9	2176.9	2198.6	2216.3	2225.8
25°	5104.3	4540.0	3064.7	2349.5	2103.4	2085.8	2115.7	2104.8	2089.9	2104.8	2114.3
27.5°	5134.2	4361.9	2743.8	2156.5	1997.4	2045.0	2027.2	2002.8	2001.4	2009.6	2023.2
30°	5124.7	4124.0	2480.1	1972.9	1922.6	1968.8	1926.7	1922.6	1918.5	1922.6	1937.6
32.5°	5124.7	3853.4	2277.4	1846.4	1875.0	1857.3	1853.3	1843.8	1827.5	1826.0	1843.8
35°	5153.2	3582.8	2103.4	1778.5	1835.6	1793.4	1796.1	1773.0	1739.0	1722.7	1739.0
37.5°	5211.7	3365.3	1930.8	1745.9	1766.3	1764.8	1754.0	1714.5	1654.8	1603.1	1620.7
40°	5353.1	3301.3	1812.5	1730.9	1733.6	1749.9	1721.4	1645.2	1509.2	1425.0	1435.8
42.5°	5574.8	3408.7	1786.7	1694.2	1711.9	1728.2	1672.4	1495.7	1399.1	1348.8	1348.8
45°	5856.1	3596.4	1842.3	1641.1	1660.2	1688.7	1522.8	1438.6	1395.0	1396.4	1403.2
47.5°	6212.4	3793.5	1945.8	1594.9	1585.4	1601.7	1423.6	1372.0	1312.1	1327.1	1365.1
50°	6624.4	3993.4	2043.6	1532.4	1502.4	1449.5	1359.7	1310.8	1234.6	1199.2	1208.8
52.5°	7070.3	4186.5	2083.0	1456.2	1412.8	1351.6	1316.2	1256.3	1163.9	1105.5	1104.0
55°	7493.3	4361.9	2039.5	1365.1	1323.0	1275.4	1270.0	1233.3	1134.0	1052.4	1052.4
57.5°	7893.0	4508.8	1930.8	1272.6	1231.8	1203.4	1240.0	1222.3	1097.3	992.6	987.2
60°	8231.6	4609.3	1773.0	1178.9	1150.3	1135.3	1191.0	1185.6	1045.6	928.6	924.6
62.5°	8500.7	4648.8	1599.0	1089.1	1082.3	1055.1	1123.1	1123.1	980.3	866.1	862.0
65°	8711.5	4610.7	1422.2	1000.7	1014.3	973.5	1040.2	1032.0	911.0	810.4	804.9
67.5°	8897.8	4485.6	1226.4	913.7	944.9	893.3	953.1	934.1	834.9	754.6	749.2
70°	8980.7	4194.6	1003.5	826.7	864.8	814.5	866.1	830.8	749.2	694.8	683.9
72.5°	8314.5	3486.2	790.0	735.6	768.2	727.4	772.3	731.5	656.7	632.2	611.8
75°	6878.7	2616.0	607.8	636.3	660.8	629.6	659.5	629.6	561.6	579.2	528.9
77.5°	4995.5	1766.3	465.0	531.7	542.5	526.2	552.1	518.0	456.8	452.7	432.3
80°	2484.2	1034.7	364.4	420.1	416.0	405.2	435.1	418.8	367.2	388.9	384.8
82.5°	719.2	443.2	265.2	295.1	286.9	289.6	311.4	319.5	478.6	474.6	485.4
85°	225.7	174.0	159.1	164.5	156.4	160.4	183.6	364.4	337.2	197.1	213.5
87.5°	58.4	59.9	39.5	42.1	43.5	51.7	58.4	221.6	106.1	69.4	73.4
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)