

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: P885530

Luminaire Tested: **NAV-SB6D-835-U-T4FT-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885530  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-835-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

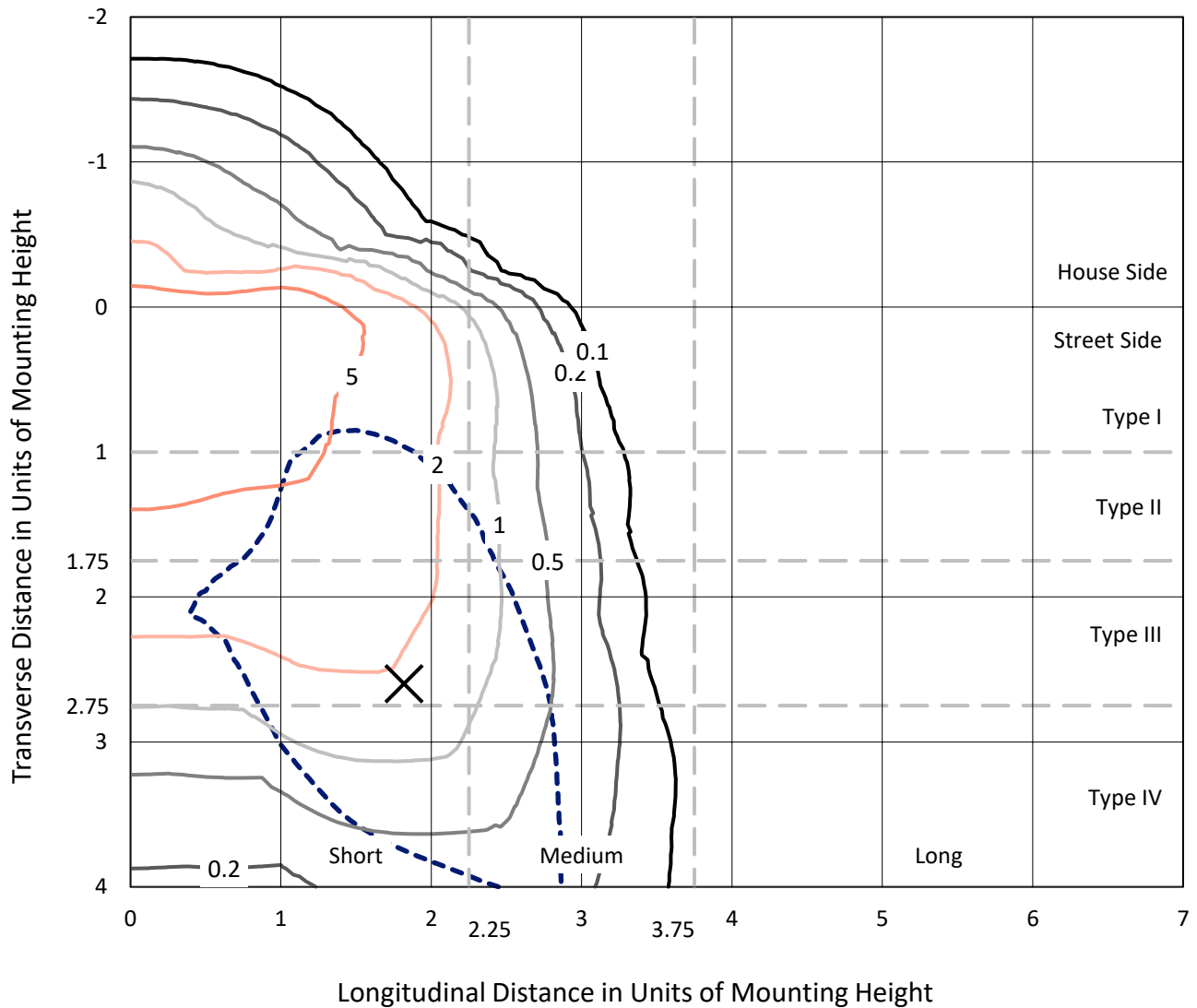
Lumens per Lamp: N/A  
Luminaire Lumens: 39458 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): 120.0  
Input Current (Ain): 3.68  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 2.542  
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

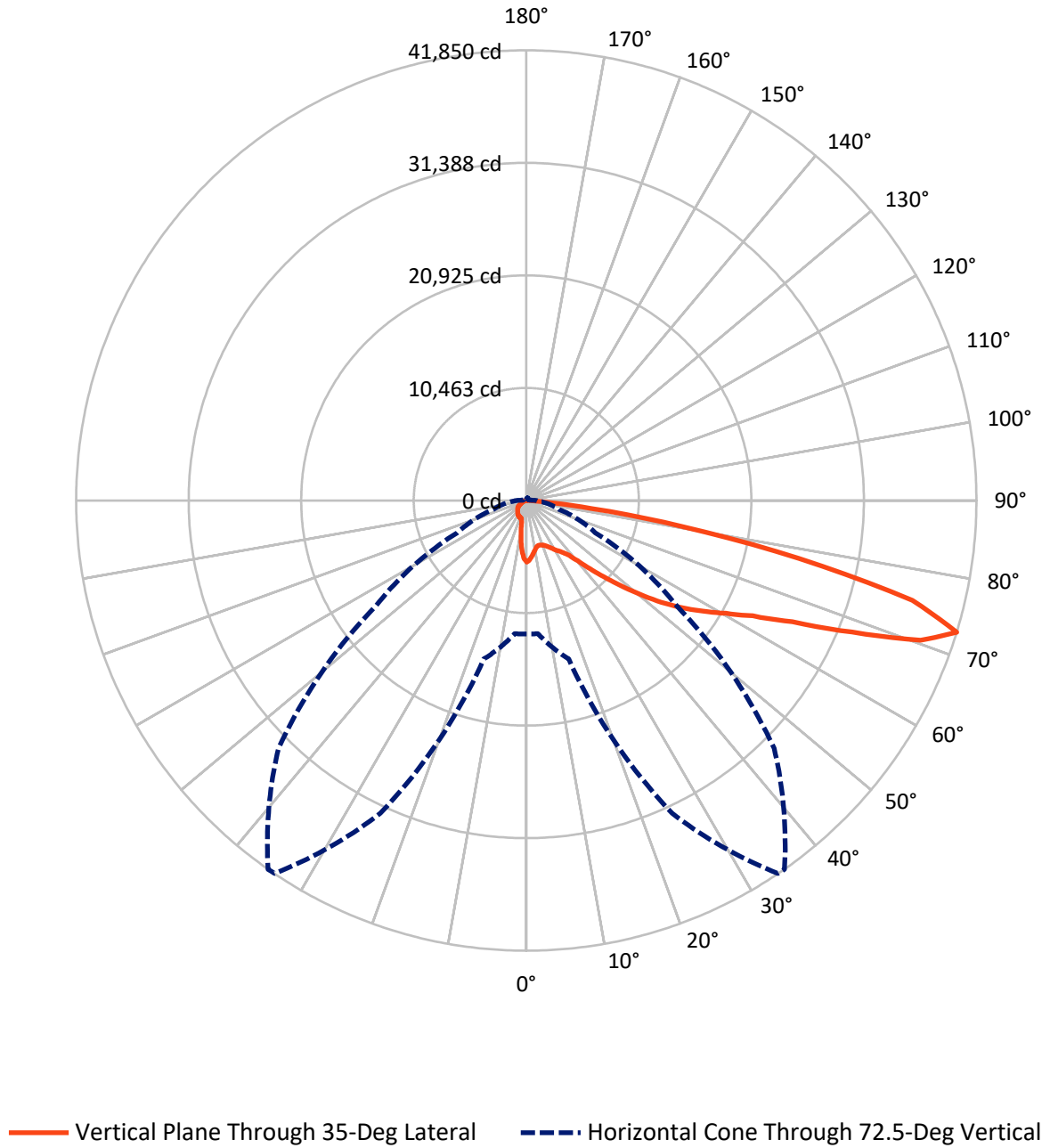
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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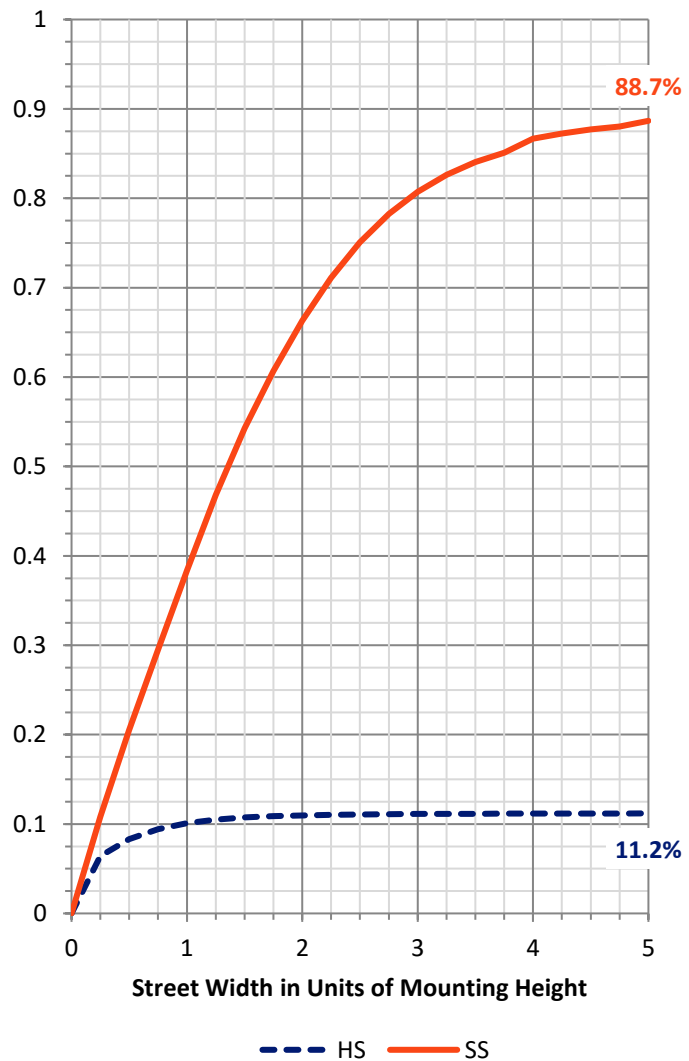
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4440.8	0.0	4440.8
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	35017.2	0.0	35017.2
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	39458.0	0.0	39458.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	469.9	1.2
10°-20°	1099.4	2.8
20°-30°	1785.9	4.5
30°-40°	2979.7	7.6
40°-50°	5637.7	14.3
50°-60°	8958.2	22.7
60°-70°	11081.9	28.1
70°-80°	6888.6	17.5
80°-90°	556.7	1.4
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°	39458.0	100.0
0°-180°	39458.0	100.0

**Coefficient of Utilization**



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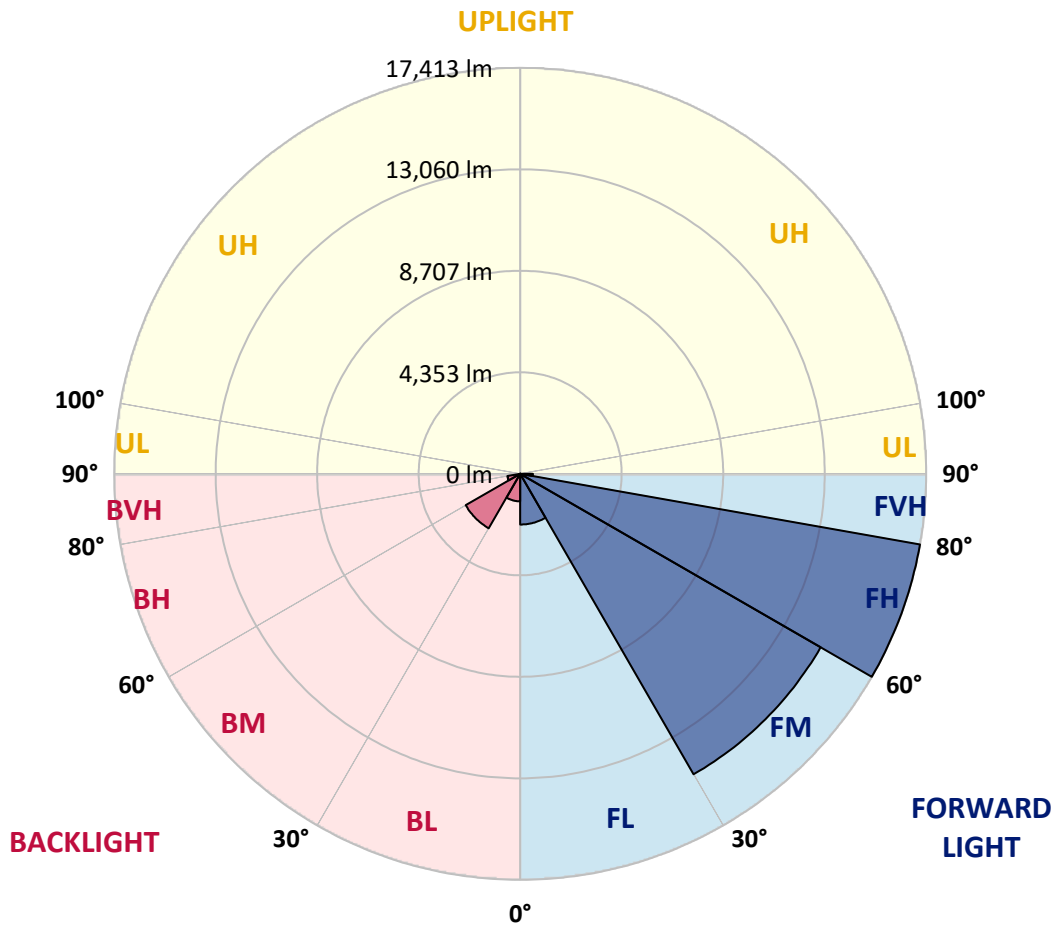
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2175.1	5.5			
FM (30°-60°)	14879.6	37.7			
FH (60°-80°)	17413.3	44.1			G5
FVH (80°-90°)	549.1	1.4			G4/750
BL (0°-30°)	1180.0	3.0	B3/2500		
BM (30°-60°)	2696.0	6.8	B3/5000		
BH (60°-80°)	557.3	1.4	B2/1000		G2/1000
BVH (80°-90°)	7.6	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5718.8	5718.8	5718.8	5718.8	5718.8	5718.8	5718.8	5718.8	5718.8	5718.8	5718.8
2.5°	5464.4	5510.6	5519.3	5533.8	5533.8	5551.1	5580.0	5620.5	5687.0	5721.7	5744.8
5°	5036.5	5071.2	5114.5	5149.2	5215.7	5224.4	5337.1	5447.0	5600.2	5715.9	5796.8
7.5°	4605.7	4646.2	4704.0	4787.8	4874.6	4900.6	5071.2	5256.2	5499.1	5715.9	5851.8
10°	4302.1	4305.0	4357.0	4440.9	4579.7	4611.5	4819.6	5082.7	5386.3	5681.2	5903.8
12.5°	4131.5	4151.8	4174.9	4238.5	4371.5	4391.7	4614.3	4923.7	5273.5	5661.0	5964.5
15°	4131.5	4146.0	4160.4	4192.2	4299.2	4316.6	4513.2	4822.5	5215.7	5669.6	6062.8
17.5°	4174.9	4198.0	4186.5	4224.0	4336.8	4348.4	4521.8	4793.6	5212.8	5724.6	6213.2
20°	4279.0	4296.3	4273.2	4296.3	4409.1	4432.2	4611.5	4848.5	5262.0	5820.0	6401.1
22.5°	4443.8	4452.4	4397.5	4414.9	4530.5	4559.4	4767.6	5004.7	5380.5	5973.2	6652.6
25°	4651.9	4669.3	4585.4	4605.7	4715.5	4750.2	4990.2	5238.8	5568.4	6184.3	6973.6
27.5°	4891.9	4900.6	4828.3	4825.4	4967.1	5016.2	5259.1	5528.0	5820.0	6450.3	7378.3
30°	5166.6	5192.6	5123.2	5111.6	5290.9	5331.4	5571.3	5883.6	6190.1	6849.2	7953.7
32.5°	5383.4	5403.6	5363.2	5392.1	5574.2	5606.0	5950.1	6386.7	6771.2	7415.9	8737.2
35°	5695.7	5707.2	5614.7	5666.7	5874.9	5955.9	6467.6	7092.1	7502.7	8127.2	9760.7
37.5°	6826.1	6826.1	6432.9	6175.6	6375.1	6447.4	7176.0	7979.7	8404.7	9081.2	11050.2
40°	8390.3	8364.2	7788.9	7262.7	7236.7	7378.3	8185.0	9098.6	9569.9	10226.2	12501.5
42.5°	10058.5	10018.0	9234.5	8714.1	8627.3	8676.5	9350.1	10477.7	10957.6	11622.6	14062.8
45°	11538.8	11527.2	10810.2	10110.5	9954.4	10110.5	10804.4	12091.0	12435.0	13134.7	15621.1
47.5°	12779.1	12779.1	12255.8	11799.0	11718.0	11810.5	12773.3	13880.6	13848.8	14745.1	17139.0
50°	14207.3	14195.8	13698.5	13501.9	13585.7	13715.8	15040.0	15765.7	15311.8	16326.6	18495.0
52.5°	15207.7	15277.1	15106.5	15074.7	15502.6	15728.1	17341.4	17610.3	16621.5	17827.1	19509.8
55°	15999.9	16080.8	16277.4	16500.1	17324.1	17619.0	19570.5	19359.5	17717.3	19128.2	20093.8
57.5°	17121.7	17006.0	17309.6	17749.1	19081.9	19437.5	21730.2	21010.3	18599.1	20183.4	20157.4
60°	18483.4	18500.8	18552.8	19107.9	20836.9	21293.7	23858.2	22571.6	19165.7	20831.1	19452.0
62.5°	20119.8	20145.9	20252.8	21105.7	23193.2	23624.0	26124.9	23849.5	19426.0	20648.9	17630.5
65°	20007.1	20116.9	21311.0	24228.2	26775.4	27200.4	28770.3	24745.8	19032.7	18983.6	14354.8
67.5°	18226.1	18405.4	20403.2	27957.9	32176.1	32650.3	31968.0	24922.1	17335.6	14762.5	9364.6
70°	15890.0	15953.6	18356.2	31311.7	38429.8	38909.7	34830.2	22982.1	13154.9	8234.1	4195.1
72.5°	12409.0	12423.5	15242.4	32089.4	41824.1	41850.1	32583.8	17061.0	7074.8	3163.0	1457.2
75°	8864.4	8777.7	10208.8	26023.7	36796.3	37091.2	24427.7	8002.8	2703.3	1494.7	725.7
77.5°	4753.1	4848.5	5776.6	15433.2	25419.4	25922.5	13328.4	2307.2	1376.2	1017.7	479.9
80°	1468.7	1549.7	2367.9	7066.1	14398.2	14701.7	4941.1	1026.4	959.9	725.7	315.1
82.5°	462.6	479.9	1104.4	2969.3	5976.1	6114.9	1431.1	581.1	656.3	479.9	185.0
85°	133.0	135.9	491.5	1107.3	1477.4	1506.3	401.9	225.5	375.9	297.8	95.4
87.5°	14.5	46.3	185.0	185.0	130.1	127.2	43.4	49.2	107.0	37.6	17.3
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°	5718.8	5718.8	5718.8	5718.8	5718.8	5718.8	5718.8	5718.8	5718.8	5718.8	5718.8
2.5°	5730.4	5733.2	5695.7	5632.1	5562.7	5504.8	5432.6	5374.7	5334.3	5322.7	5342.9
5°	5770.8	5750.6	5643.6	5449.9	5218.6	5019.1	4796.5	4620.1	4504.5	4455.3	4472.7
7.5°	5831.5	5773.7	5539.5	5157.9	4715.5	4322.3	3923.4	3614.0	3417.4	3319.1	3333.5
10°	5883.6	5767.9	5366.1	4735.8	4059.2	3463.7	2925.9	2552.9	2344.8	2246.5	2249.4
12.5°	5932.7	5765.0	5140.5	4235.6	3319.1	2590.5	2090.3	1905.3	1847.5	1827.2	1821.5
15°	6025.3	5773.7	4857.2	3663.1	2581.8	1957.3	1775.2	1772.3	1783.9	1778.1	1775.2
17.5°	6152.5	5782.4	4536.3	3056.0	1992.0	1726.0	1717.4	1743.4	1760.7	1752.1	1749.2
20°	6317.3	5817.1	4195.1	2454.6	1711.6	1668.2	1688.5	1711.6	1726.0	1711.6	1708.7
22.5°	6548.6	5877.8	3822.2	1971.8	1622.0	1633.5	1650.9	1676.9	1691.4	1671.1	1668.2
25°	6831.9	5973.2	3455.0	1714.5	1578.6	1593.0	1619.1	1648.0	1665.3	1645.1	1642.2
27.5°	7199.1	6126.4	3116.7	1656.7	1535.2	1543.9	1581.5	1624.9	1648.0	1622.0	1622.0
30°	7731.1	6378.0	2824.7	1682.7	1509.2	1489.0	1541.0	1601.7	1627.7	1604.6	1601.7
32.5°	8436.5	6733.6	2645.4	1723.2	1497.6	1425.4	1474.5	1552.6	1595.9	1581.5	1581.5
35°	9361.7	7274.3	2576.1	1769.4	1489.0	1358.9	1393.6	1477.4	1552.6	1567.0	1567.0
37.5°	10483.5	8026.0	2596.3	1789.7	1462.9	1303.9	1321.3	1393.6	1491.9	1538.1	1549.7
40°	11758.5	8902.0	2711.9	1769.4	1434.0	1257.7	1260.6	1315.5	1402.2	1471.6	1494.7
42.5°	13074.0	9925.5	2925.9	1694.2	1408.0	1217.2	1208.5	1246.1	1303.9	1353.1	1373.3
45°	14325.9	10977.9	3136.9	1590.2	1376.2	1176.7	1156.5	1170.9	1182.5	1202.7	1214.3
47.5°	15418.8	11718.0	3076.2	1494.7	1332.8	1130.5	1095.8	1090.0	1055.3	1052.4	1049.5
50°	16173.4	11879.9	2732.2	1399.3	1269.2	1078.4	1023.5	988.8	928.1	899.2	902.1
52.5°	16413.3	11241.0	2232.0	1303.9	1165.2	1009.0	931.0	876.0	800.9	774.8	771.9
55°	16095.3	9989.1	1783.9	1188.3	1020.6	916.5	829.8	757.5	696.8	665.0	665.0
57.5°	15317.6	8396.0	1410.9	1052.4	867.4	812.4	725.7	653.4	601.4	569.6	563.8
60°	14028.1	6667.1	1116.0	890.5	740.1	699.7	610.0	563.8	517.5	479.9	471.3
62.5°	12070.7	4758.9	876.0	705.5	618.7	572.5	520.4	485.7	430.8	378.7	370.1
65°	9419.5	2911.4	676.5	517.5	497.3	474.2	442.4	410.5	344.1	292.0	283.3
67.5°	5941.4	1379.1	482.8	390.3	393.2	381.6	367.2	341.2	292.0	245.8	240.0
70°	2616.5	667.9	318.0	297.8	292.0	292.0	303.6	294.9	248.6	205.3	196.6
72.5°	890.5	358.5	237.1	225.5	211.1	208.2	254.4	245.8	199.5	159.0	150.3
75°	465.5	240.0	173.5	161.9	127.2	153.2	202.4	190.8	141.7	104.1	95.4
77.5°	303.6	170.6	118.5	104.1	72.3	101.2	150.3	133.0	83.8	52.0	46.3
80°	190.8	112.8	69.4	49.2	34.7	54.9	81.0	57.8	31.8	11.6	8.7
82.5°	101.2	57.8	26.0	17.3	14.5	17.3	20.2	14.5	5.8	0.0	0.0
85°	40.5	20.2	8.7	5.8	2.9	0.0	5.8	2.9	0.0	0.0	0.0
87.5°	14.5	2.9	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)