

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: P971036

Luminaire Tested: **NAV-SB6C-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-830-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41574 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

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



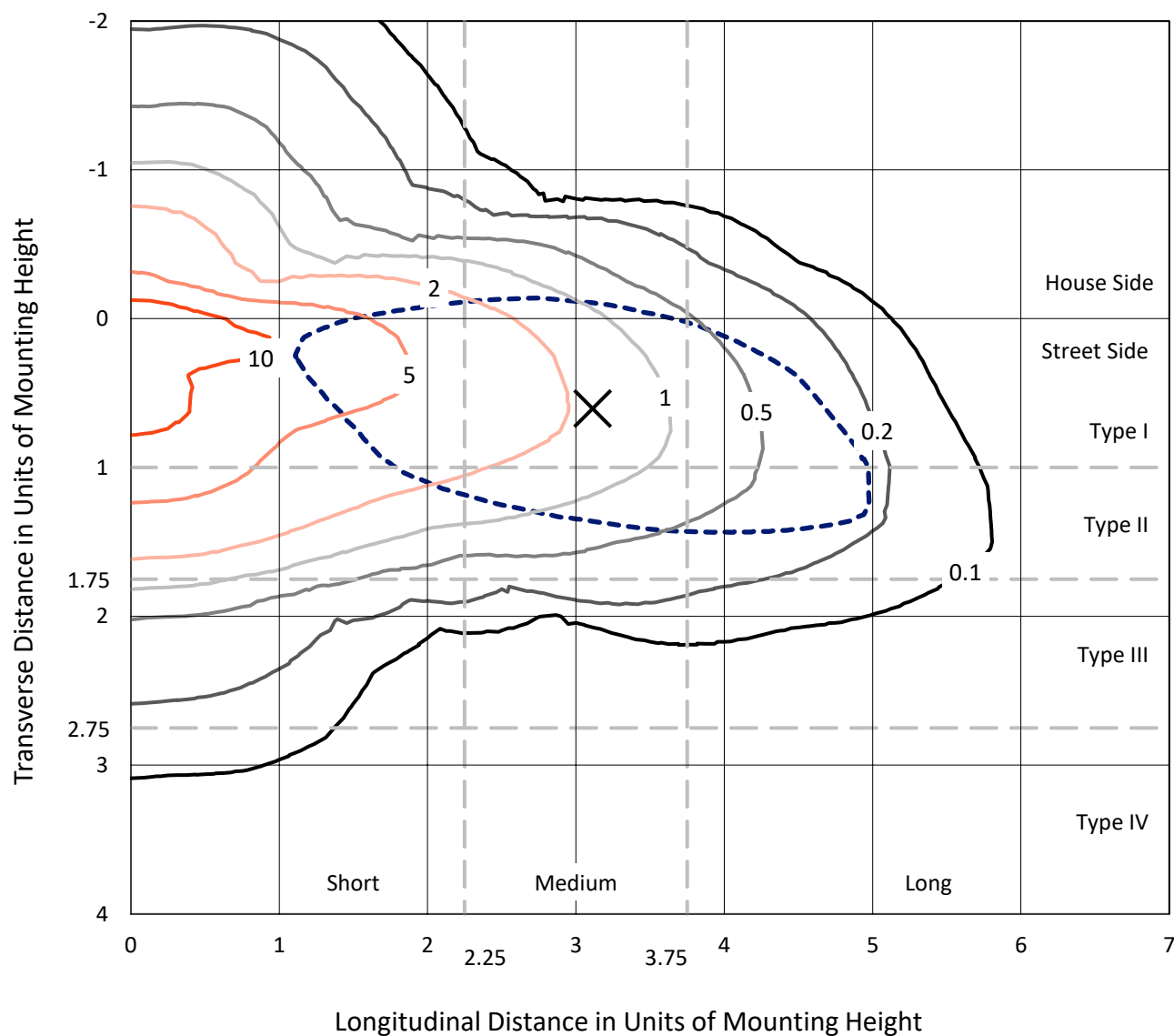
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

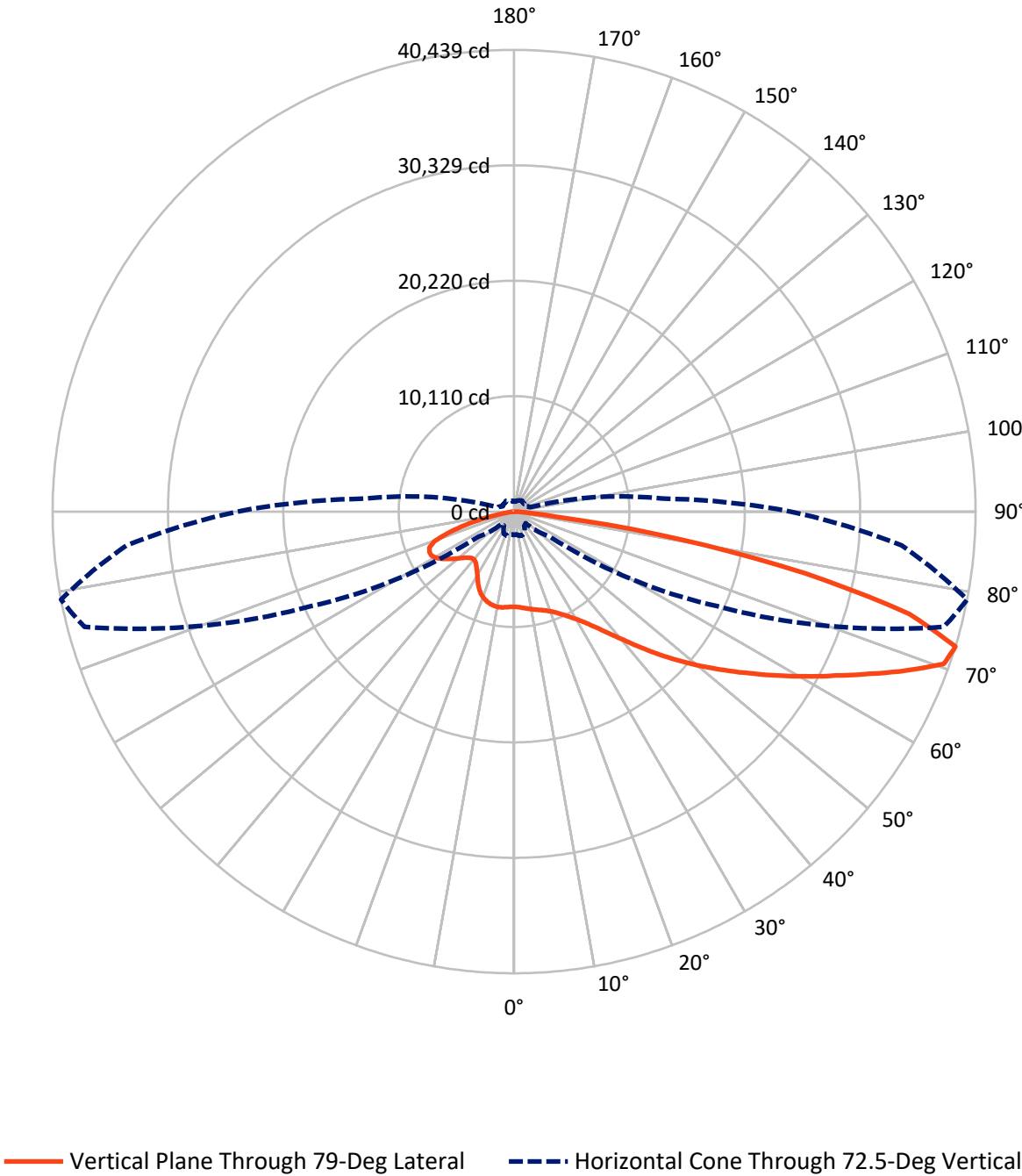
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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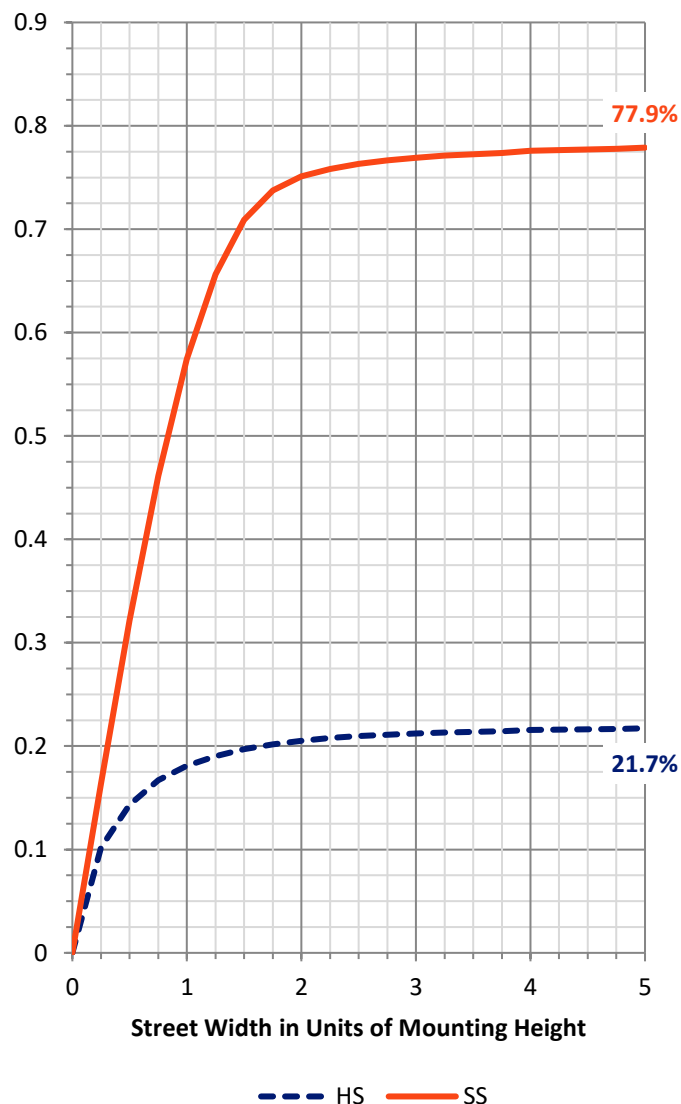
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9148.6	0.0	9148.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	32425.4	0.0	32425.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	41574.0	0.0	41574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	757.5	1.8
10°-20°	1980.6	4.8
20°-30°	3195.8	7.7
30°-40°	4796.5	11.5
40°-50°	6804.1	16.4
50°-60°	8592.7	20.7
60°-70°	8727.1	21.0
70°-80°	5947.9	14.3
80°-90°	771.7	1.9
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°	41574.0	100.0
0°-180°	41574.0	100.0

Coefficient of Utilization



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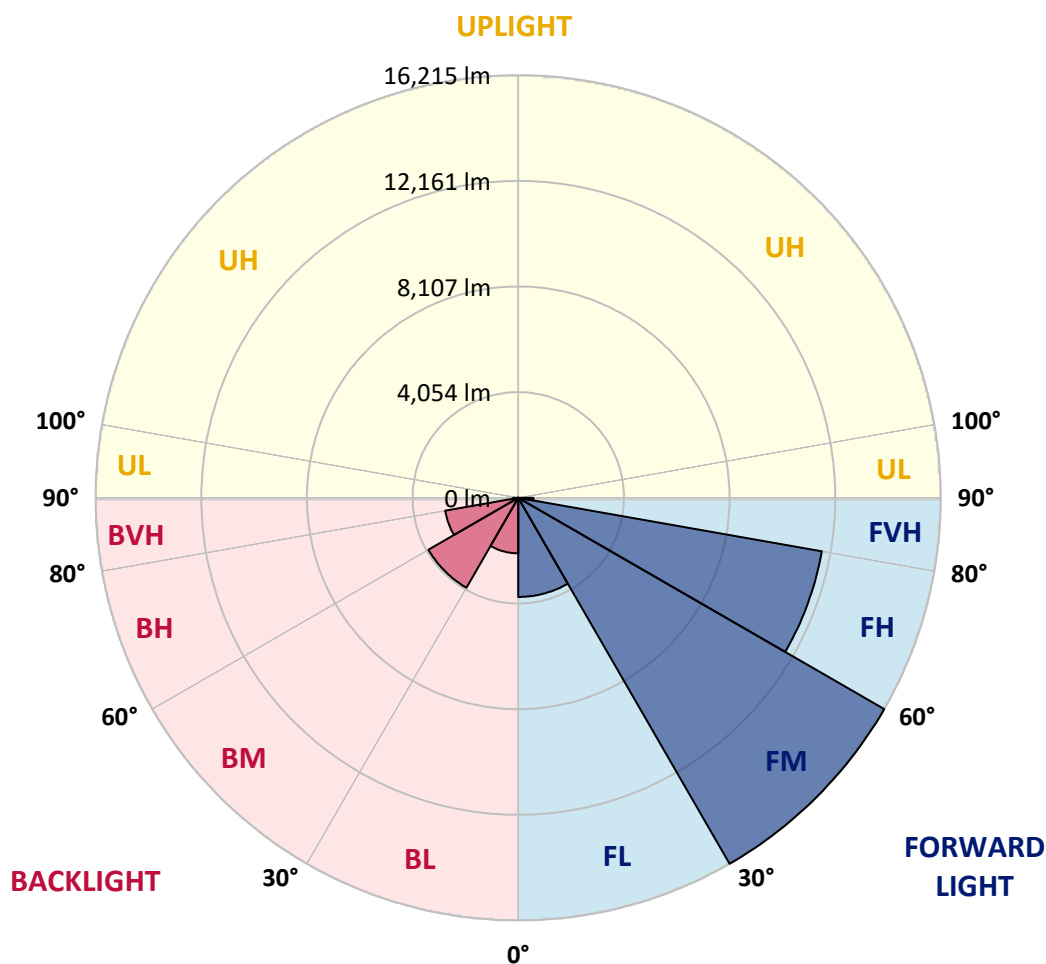
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3803.0	9.1			
FM	(30°-60°)	16214.7	39.0			
FH	(60°-80°)	11826.4	28.4			G4/12000
FVH	(80°-90°)	581.3	1.4			G4/750
BL	(0°-30°)	2131.0	5.1	B3/2500		
BM	(30°-60°)	3978.7	9.6	B3/5000		
BH	(60°-80°)	2848.6	6.9	B4/5000		G4/5000
BVH	(80°-90°)	190.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8345.6	8345.6	8345.6	8345.6	8345.6	8345.6	8345.6	8345.6	8345.6	8345.6	8345.6
2.5°	8350.0	8310.4	8334.6	8325.8	8336.8	8350.0	8354.4	8361.0	8383.0	8380.8	8378.6
5°	8332.4	8292.8	8325.8	8314.8	8343.4	8374.1	8400.6	8424.8	8459.9	8475.3	8453.4
7.5°	8295.0	8268.6	8301.6	8334.6	8387.4	8433.6	8470.9	8525.9	8576.5	8585.3	8600.7
10°	8077.3	8057.5	8134.5	8220.2	8365.3	8490.7	8572.1	8635.8	8690.9	8699.7	8721.6
12.5°	7850.8	7826.6	7912.4	8028.9	8264.3	8490.7	8662.3	8745.8	8794.2	8822.8	8855.8
15°	7813.4	7793.6	7842.0	7943.1	8138.9	8431.3	8723.9	8877.7	8919.6	8952.6	8965.8
17.5°	7993.8	7956.4	7976.1	8011.3	8125.7	8376.4	8772.3	9027.3	9091.0	9126.3	9126.3
20°	8411.6	8358.8	8328.0	8257.6	8237.8	8385.2	8767.8	9207.7	9291.2	9335.2	9346.2
22.5°	8967.9	8932.8	8866.8	8688.6	8495.1	8492.9	8851.4	9438.5	9594.7	9636.4	9610.1
25°	9640.8	9588.1	9504.5	9262.6	8891.0	8706.2	8992.1	9733.2	9994.9	10005.9	9929.0
27.5°	10414.9	10335.8	10221.4	9902.5	9401.2	9040.5	9207.7	10071.9	10454.5	10450.1	10291.8
30°	11230.8	11151.6	11030.6	10643.6	10012.5	9491.3	9506.7	10437.0	10999.9	10975.7	10705.2
32.5°	11826.8	11767.4	11743.2	11444.1	10716.2	10023.5	9849.7	10841.5	11672.8	11650.9	11272.5
35°	12284.2	12207.2	12235.8	12084.0	11483.7	10619.4	10269.8	11323.2	12490.9	12488.7	12018.1
37.5°	12737.2	12669.0	12693.2	12592.0	12194.0	11376.0	10782.2	11912.6	13504.7	13553.1	12919.7
40°	13150.6	13078.1	13174.8	13080.2	12746.0	12180.8	11365.0	12578.9	14679.0	14771.4	14010.4
42.5°	13399.1	13341.9	13502.4	13504.7	13225.4	12860.4	12004.9	13313.3	16038.1	16244.7	15351.9
45°	13484.9	13465.1	13707.0	13757.6	13649.8	13254.0	12581.1	14113.8	17502.6	17872.1	16880.3
47.5°	13392.5	13355.1	13689.4	13876.3	13962.0	13438.7	13058.3	14980.3	18998.1	19539.0	18547.2
50°	12926.3	12853.7	13350.7	13744.3	14050.1	13559.6	13539.8	15980.9	20697.9	21289.5	20222.9
52.5°	12088.4	12033.5	12598.7	13282.6	13856.6	13619.1	14080.8	17073.8	22312.1	23077.4	21940.4
55°	11017.5	10944.9	11567.2	12460.1	13374.9	13599.2	14621.8	18296.6	24216.4	24992.8	23715.1
57.5°	9319.8	9174.7	9962.0	11017.5	12589.9	13575.0	15184.8	19512.6	26151.7	27081.9	25608.5
60°	6843.6	6628.1	7593.5	8844.8	11054.8	13339.8	15881.9	20876.1	28474.0	29311.8	27675.7
62.5°	3984.8	3859.4	4490.5	5658.3	8332.4	11954.3	16273.3	22461.6	30756.7	31636.2	29707.7
65°	3094.2	3058.9	3114.0	3204.0	4637.9	8950.3	15066.1	24007.6	33659.5	34275.2	31825.3
67.5°	2830.2	2803.9	2828.1	2658.7	2353.0	4985.4	11919.1	24399.0	36769.0	37142.8	33679.2
70°	2515.8	2485.0	2564.1	2419.0	1851.7	2267.3	7701.2	22978.3	39242.9	39944.5	35088.8
72.5°	2049.6	2014.3	2199.1	2133.1	1559.1	1455.8	3868.2	19602.8	38983.4	40439.2	34079.4
75°	1574.6	1554.7	1774.7	1829.6	1271.1	1145.7	1856.1	14571.2	34305.9	35772.8	29371.2
77.5°	1222.7	1207.3	1319.5	1519.6	1024.8	888.5	1141.3	9242.8	25852.7	26109.9	20240.5
80°	917.1	873.0	976.4	1176.5	798.3	648.7	774.1	5390.0	16341.5	14813.1	8809.6
82.5°	574.0	552.0	637.8	785.0	562.9	446.4	503.6	2977.6	6548.9	3857.2	1699.9
85°	327.7	318.9	347.5	448.6	305.7	257.3	288.1	1315.1	1196.3	822.5	512.4
87.5°	131.9	127.5	158.4	200.1	112.1	94.6	101.2	316.6	263.9	244.1	169.3
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°	8345.6	8345.6	8345.6	8345.6	8345.6	8345.6	8345.6	8345.6	8345.6	8345.6	8345.6
2.5°	8369.7	8369.7	8339.0	8290.6	8235.7	8200.4	8143.3	8127.8	8068.5	8050.9	8079.5
5°	8470.9	8453.4	8358.8	8222.4	8035.5	7864.0	7674.9	7556.1	7389.0	7329.6	7373.5
7.5°	8598.5	8550.1	8387.4	8088.3	7696.8	7312.0	6911.8	6608.3	6318.0	6214.7	6227.9
10°	8715.1	8646.9	8369.7	7846.4	7169.1	6502.7	5865.0	5418.6	5079.9	4941.4	4972.2
12.5°	8831.6	8706.2	8253.2	7444.0	6419.2	5515.3	4835.8	4488.4	4279.5	4112.3	4167.3
15°	8941.6	8765.6	8072.9	6905.2	5596.7	4679.6	4178.3	3901.3	3734.1	3624.1	3643.9
17.5°	9069.1	8816.2	7802.4	6221.2	4813.8	4101.3	3692.3	3525.2	3492.2	3479.0	3487.8
20°	9247.2	8862.4	7446.1	5456.0	4237.7	3639.5	3428.4	3413.0	3410.8	3404.2	3426.2
22.5°	9438.5	8917.4	6975.5	4761.0	3747.3	3351.4	3314.0	3283.3	3263.5	3261.2	3285.4
25°	9665.0	8934.9	6386.2	4191.5	3329.4	3215.1	3171.1	3124.9	3111.7	3111.7	3124.9
27.5°	9885.0	8875.6	5700.0	3696.7	3094.2	3089.8	3032.6	3017.2	3014.9	3021.6	3039.1
30°	10104.9	8763.4	5018.3	3239.3	2957.7	2957.7	2938.0	2949.0	2957.7	2979.8	2995.2
32.5°	10401.7	8644.6	4448.8	2900.6	2839.0	2817.0	2836.8	2858.8	2867.6	2896.2	2920.4
35°	10837.1	8561.1	3995.8	2715.8	2715.8	2687.3	2698.3	2693.9	2674.1	2660.9	2691.6
37.5°	11413.4	8556.7	3621.9	2630.1	2612.5	2608.1	2610.4	2581.8	2504.8	2412.4	2414.6
40°	12106.1	8675.5	3333.8	2570.7	2557.6	2583.9	2570.7	2493.8	2282.7	2122.2	2117.8
42.5°	13036.3	9014.2	3149.1	2498.1	2537.8	2570.7	2518.0	2251.9	2108.9	2001.2	1996.8
45°	14131.4	9563.9	3054.5	2421.3	2500.4	2540.0	2284.8	2168.3	2054.0	1924.2	1915.4
47.5°	15371.7	10256.6	3032.6	2348.7	2416.8	2441.0	2185.9	2133.1	2003.4	1862.6	1851.7
50°	16722.0	11076.9	3091.9	2262.9	2295.9	2212.3	2152.9	2104.5	1970.4	1831.9	1816.5
52.5°	18118.4	11980.7	3210.7	2146.4	2174.9	2082.6	2139.7	2098.0	1950.6	1763.7	1750.5
55°	19490.6	12891.1	3325.0	2010.0	2051.7	1966.0	2102.4	2071.5	1860.5	1649.3	1638.4
57.5°	20884.9	13797.1	3437.2	1889.1	1933.0	1853.8	2042.9	2001.2	1759.3	1543.8	1539.3
60°	22334.0	14676.8	3490.0	1772.4	1803.3	1750.5	1952.8	1880.3	1644.9	1436.0	1429.5
62.5°	23690.9	15409.1	3404.2	1655.9	1675.7	1653.7	1834.0	1737.3	1530.5	1315.1	1312.8
65°	25052.1	15844.6	3140.3	1541.6	1546.0	1534.9	1667.0	1583.3	1396.5	1209.5	1196.3
67.5°	26285.8	16088.6	2720.2	1418.4	1407.4	1403.0	1510.7	1416.2	1266.7	1103.9	1090.7
70°	26547.5	15468.5	2078.2	1273.3	1273.3	1262.3	1339.3	1242.5	1123.7	991.8	987.4
72.5°	24247.3	13012.1	1475.6	1108.3	1126.0	1103.9	1167.7	1086.4	978.6	890.6	864.3
75°	19552.2	9541.9	1073.2	939.0	969.8	932.4	991.8	934.6	842.2	840.1	756.4
77.5°	13434.3	5900.2	778.5	774.1	796.1	747.7	815.9	785.0	701.5	664.1	622.4
80°	5733.0	2353.0	567.3	598.2	598.2	554.2	633.3	642.2	569.6	552.0	552.0
82.5°	1141.3	668.5	398.0	411.2	387.0	373.8	448.6	497.0	686.1	763.1	765.3
85°	343.1	246.3	239.7	224.3	197.9	200.1	263.9	499.2	615.7	351.9	303.5
87.5°	94.6	61.6	63.8	50.5	41.8	54.9	90.2	378.2	206.7	87.9	74.7
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)