

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: P970509

Luminaire Tested: **NAV-SB6B-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970509
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-SB6B-830-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31259.4 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

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



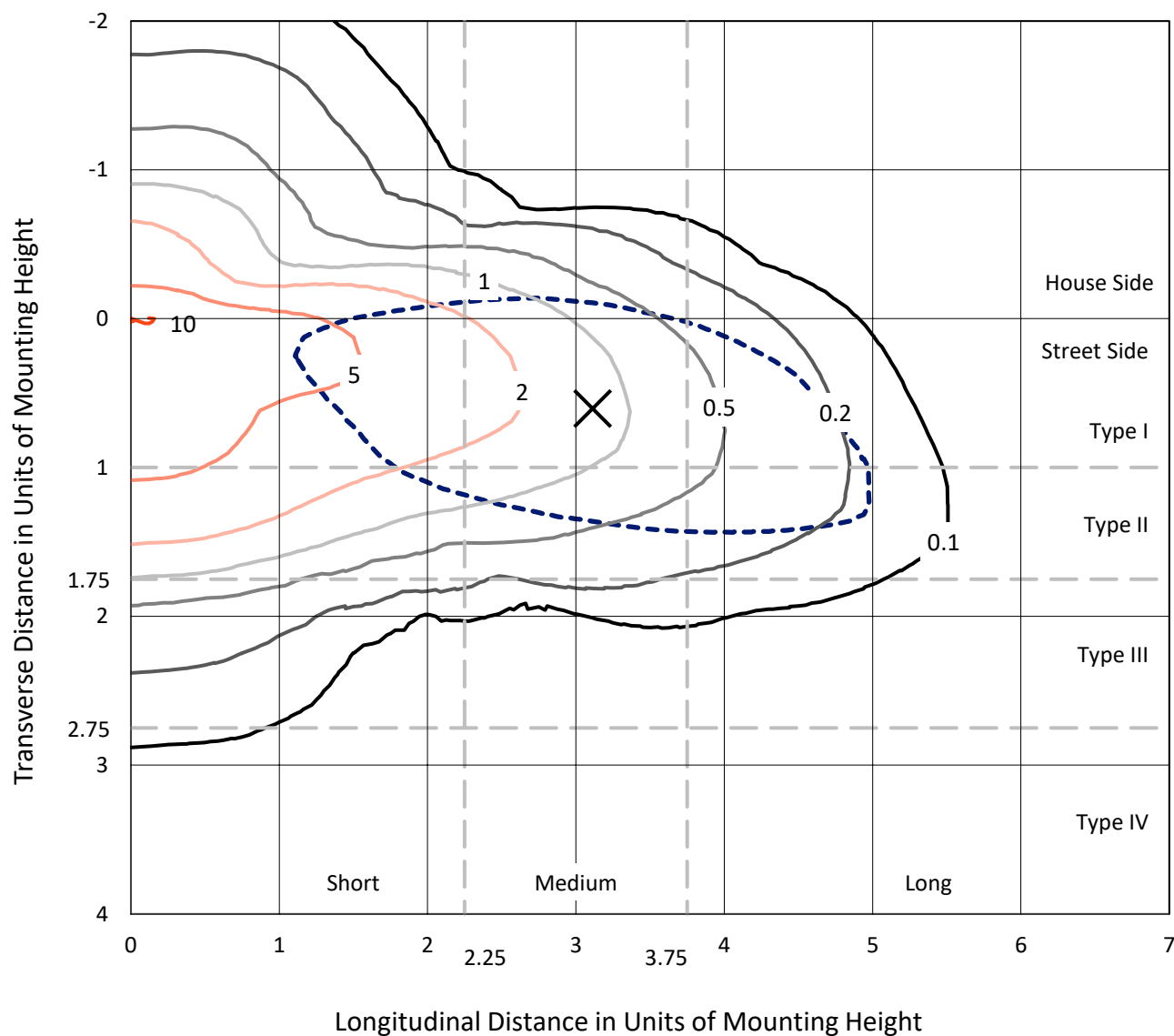
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

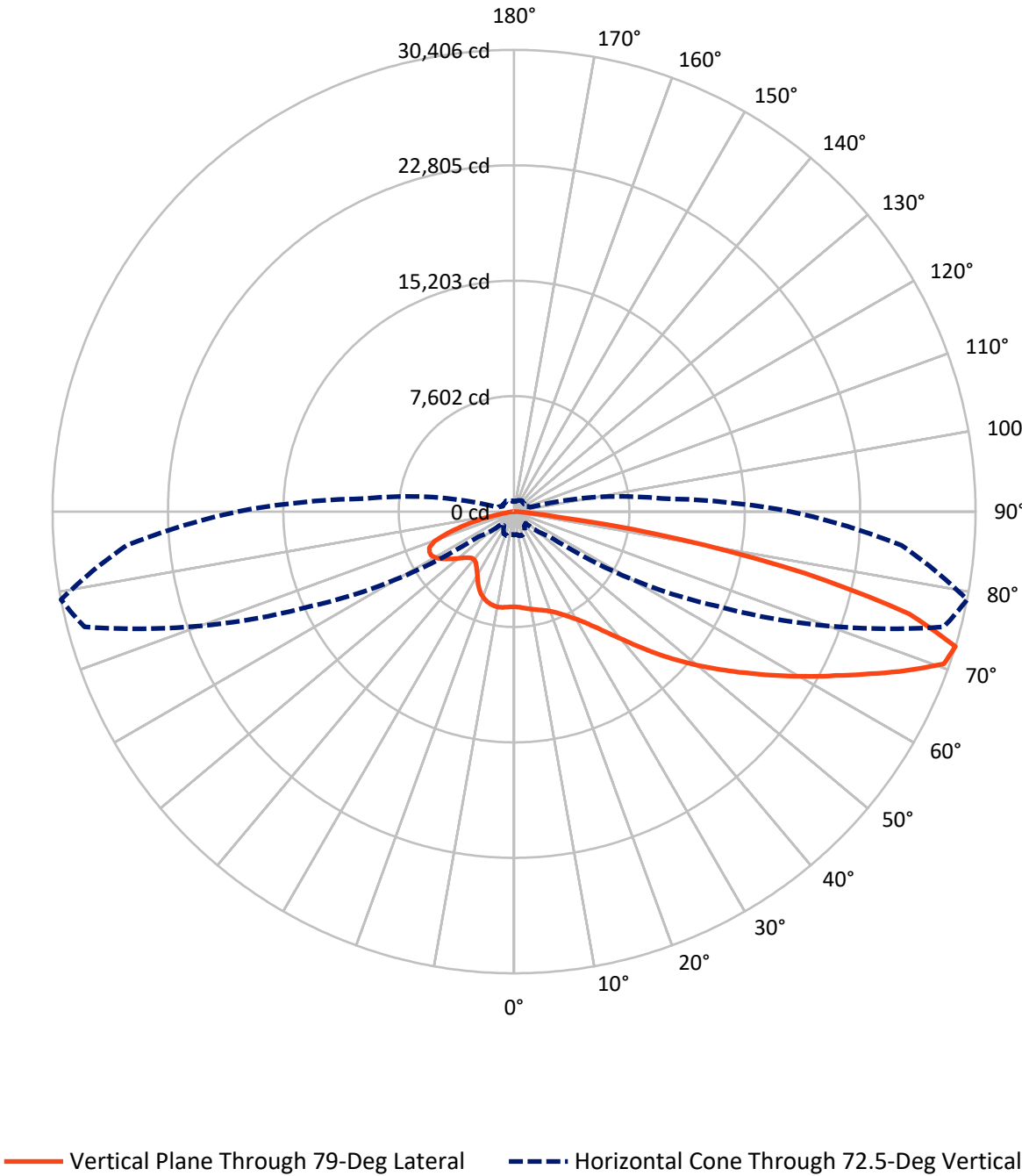
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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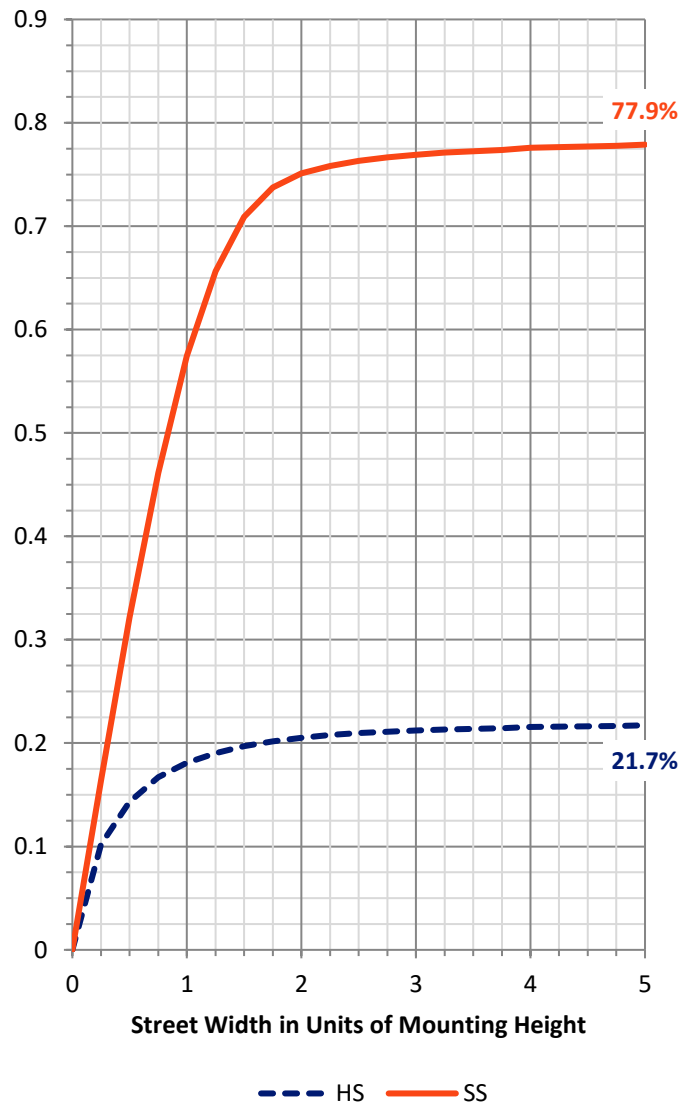
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6878.8	0.0	6878.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	24380.6	0.0	24380.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	31259.4	0.0	31259.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.6	1.8
10°-20°	1489.2	4.8
20°-30°	2403.0	7.7
30°-40°	3606.5	11.5
40°-50°	5116.0	16.4
50°-60°	6460.9	20.7
60°-70°	6561.9	21.0
70°-80°	4472.2	14.3
80°-90°	580.2	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°	31259.4	100.0
0°-180°	31259.4	100.0

Coefficient of Utilization



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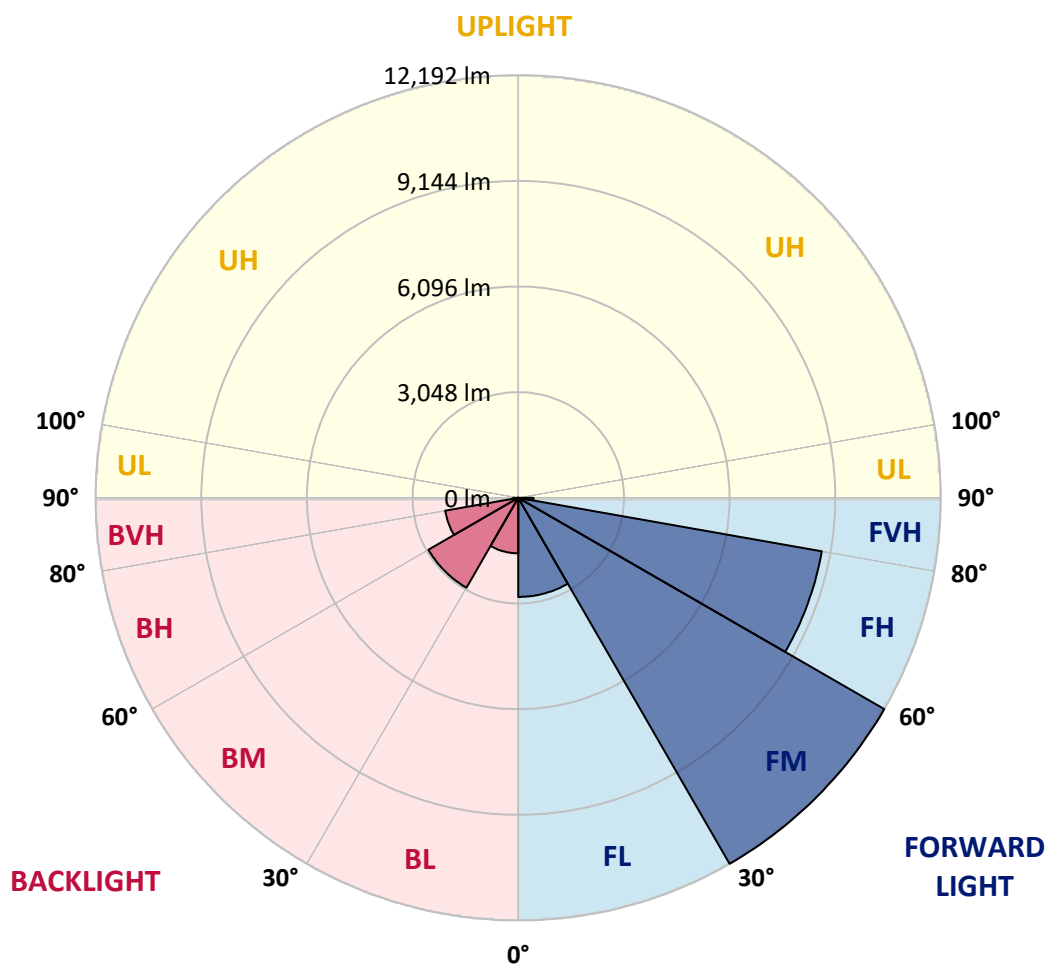
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2859.5	9.1			
FM	(30°-60°)	12191.8	39.0			
FH	(60°-80°)	8892.2	28.4			G4/12000
FVH	(80°-90°)	437.1	1.4			G3/500
BL	(0°-30°)	1602.3	5.1	B3/2500		
BM	(30°-60°)	2991.6	9.6	B3/5000		
BH	(60°-80°)	2141.8	6.9	B3/2500		G3/2500
BVH	(80°-90°)	143.1	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6275.0	6275.0	6275.0	6275.0	6275.0	6275.0	6275.0	6275.0	6275.0	6275.0	6275.0
2.5°	6278.3	6248.6	6266.7	6260.2	6268.4	6278.3	6281.6	6286.6	6303.1	6301.5	6299.9
5°	6265.1	6235.4	6260.2	6251.9	6273.4	6296.6	6316.4	6334.6	6361.0	6372.6	6356.0
7.5°	6237.0	6217.1	6241.9	6266.7	6306.4	6341.2	6369.2	6410.7	6448.7	6455.2	6466.8
10°	6073.3	6058.5	6116.3	6180.7	6289.9	6384.2	6445.3	6493.3	6534.7	6541.2	6557.7
12.5°	5903.0	5884.8	5949.3	6036.9	6213.9	6384.2	6513.2	6576.0	6612.4	6633.8	6658.6
15°	5874.9	5860.0	5896.4	5972.5	6119.6	6339.5	6559.4	6675.2	6706.6	6731.4	6741.3
17.5°	6010.5	5982.4	5997.3	6023.7	6109.7	6298.2	6595.8	6787.7	6835.5	6862.1	6862.1
20°	6324.7	6285.0	6261.8	6208.9	6194.0	6304.8	6592.5	6923.2	6986.0	7019.1	7027.4
22.5°	6743.0	6716.5	6666.9	6532.9	6387.5	6385.9	6655.3	7096.8	7214.3	7245.6	7225.8
25°	7248.9	7209.2	7146.4	6964.6	6685.0	6546.2	6761.2	7318.4	7515.2	7523.4	7465.6
27.5°	7831.0	7771.4	7685.4	7445.7	7068.7	6797.5	6923.2	7573.0	7860.7	7857.4	7738.3
30°	8444.5	8384.9	8294.0	8002.9	7528.4	7136.5	7148.0	7847.5	8270.8	8252.6	8049.2
32.5°	8892.5	8847.9	8829.7	8604.8	8057.5	7536.6	7406.0	8151.7	8776.8	8760.3	8475.8
35°	9236.5	9178.6	9200.1	9086.0	8634.6	7984.7	7721.8	8513.9	9391.9	9390.2	9036.4
37.5°	9577.1	9525.8	9544.0	9467.9	9168.6	8553.5	8107.1	8957.0	10154.2	10190.6	9714.3
40°	9888.0	9833.3	9906.1	9835.0	9583.6	9158.8	8545.3	9458.0	11037.1	11106.6	10534.4
42.5°	10074.7	10031.8	10152.5	10154.2	9944.1	9669.6	9026.5	10010.3	12059.0	12214.4	11543.0
45°	10139.3	10124.3	10306.3	10344.3	10263.3	9965.7	9459.6	10612.1	13160.2	13438.0	12692.3
47.5°	10069.8	10041.7	10293.0	10433.6	10498.0	10104.6	9818.5	11263.6	14284.6	14691.3	13945.6
50°	9719.3	9664.7	10038.4	10334.4	10564.2	10195.5	10180.6	12016.0	15562.8	16007.5	15205.6
52.5°	9089.3	9048.0	9472.9	9987.2	10418.7	10240.2	10587.3	12837.8	16776.4	17351.8	16497.0
55°	8284.0	8229.5	8697.4	9368.7	10056.6	10225.2	10994.2	13757.1	18208.3	18792.0	17831.3
57.5°	7007.5	6898.4	7490.4	8284.0	9466.3	10207.1	11417.4	14671.5	19663.4	20362.9	19255.0
60°	5145.7	4983.7	5709.6	6650.4	8312.1	10030.1	11941.6	15696.6	21409.5	22039.6	20809.3
62.5°	2996.2	2901.9	3376.5	4254.5	6265.1	8988.4	12235.9	16888.8	23125.8	23787.3	22337.1
65°	2326.4	2300.0	2341.3	2409.2	3487.3	6729.7	11328.1	18051.3	25308.5	25771.5	23929.4
67.5°	2128.1	2108.2	2126.4	1999.1	1769.3	3748.5	8962.0	18345.6	27646.5	27927.7	25323.3
70°	1891.6	1868.5	1928.0	1818.9	1392.3	1704.8	5790.5	17277.4	29506.7	30034.1	26383.3
72.5°	1541.1	1514.6	1653.5	1603.9	1172.3	1094.6	2908.5	14739.3	29311.6	30406.2	25624.3
75°	1183.9	1169.0	1334.3	1375.8	955.7	861.5	1395.5	10956.1	25794.6	26897.4	22084.1
77.5°	919.3	907.7	992.1	1142.6	770.5	668.0	858.1	6949.7	19438.5	19632.0	15218.8
80°	689.5	656.4	734.1	884.6	600.2	487.8	582.0	4052.7	12287.2	11138.0	6624.0
82.5°	431.5	415.0	479.5	590.3	423.3	335.7	378.6	2238.8	4924.1	2900.2	1278.2
85°	246.4	239.7	261.3	337.3	229.8	193.4	216.6	988.8	899.5	618.4	385.3
87.5°	99.2	95.9	119.0	150.5	84.4	71.1	76.1	238.1	198.4	183.6	127.3
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°	6275.0	6275.0	6275.0	6275.0	6275.0	6275.0	6275.0	6275.0	6275.0	6275.0	6275.0
2.5°	6293.2	6293.2	6270.0	6233.7	6192.3	6165.9	6122.9	6111.4	6066.7	6053.4	6075.0
5°	6369.2	6356.0	6285.0	6182.4	6041.9	5912.9	5770.7	5681.5	5555.8	5511.1	5544.2
7.5°	6465.2	6428.8	6306.4	6081.5	5787.3	5497.9	5197.0	4968.8	4750.5	4672.8	4682.7
10°	6552.8	6501.6	6293.2	5899.7	5390.4	4889.4	4409.9	4074.3	3819.6	3715.4	3738.6
12.5°	6640.5	6546.2	6205.6	5597.1	4826.5	4146.9	3636.1	3374.8	3217.7	3092.0	3133.4
15°	6723.2	6590.9	6069.9	5192.0	4208.1	3518.6	3141.6	2933.3	2807.7	2725.0	2739.8
17.5°	6819.0	6628.9	5866.6	4677.8	3619.5	3083.8	2776.2	2650.5	2625.7	2615.8	2622.5
20°	6953.0	6663.6	5598.8	4102.4	3186.3	2736.5	2577.8	2566.2	2564.5	2559.6	2576.1
22.5°	7096.8	6704.9	5244.9	3579.8	2817.5	2520.0	2491.8	2468.7	2453.7	2452.1	2470.4
25°	7267.1	6718.2	4801.7	3151.6	2503.4	2417.5	2384.4	2349.6	2339.7	2339.7	2349.6
27.5°	7432.5	6673.6	4285.8	2779.5	2326.4	2323.2	2280.2	2268.6	2267.0	2271.9	2285.1
30°	7597.8	6589.2	3773.3	2435.6	2223.9	2223.9	2209.1	2217.4	2223.9	2240.4	2252.0
32.5°	7821.1	6499.9	3345.0	2181.0	2134.7	2118.2	2133.0	2149.5	2156.2	2177.6	2195.9
35°	8148.4	6437.1	3004.4	2042.1	2042.1	2020.6	2028.9	2025.5	2010.6	2000.7	2023.9
37.5°	8581.7	6433.7	2723.3	1977.6	1964.3	1961.0	1962.7	1941.2	1883.3	1813.8	1815.6
40°	9102.5	6523.1	2506.7	1932.9	1923.0	1942.9	1932.9	1875.0	1716.4	1595.6	1592.3
42.5°	9802.0	6777.7	2367.9	1878.4	1908.1	1932.9	1893.3	1693.2	1585.7	1504.7	1501.4
45°	10625.4	7191.1	2296.7	1820.5	1880.1	1909.8	1718.0	1630.4	1544.4	1446.8	1440.2
47.5°	11558.0	7711.9	2280.2	1766.0	1817.2	1835.4	1643.6	1603.9	1506.3	1400.6	1392.3
50°	12573.2	8328.6	2324.8	1701.5	1726.3	1663.4	1618.8	1582.4	1481.5	1377.4	1365.8
52.5°	13623.2	9008.3	2414.1	1613.9	1635.3	1565.9	1608.8	1577.5	1466.7	1326.1	1316.2
55°	14654.9	9692.8	2500.1	1511.3	1542.7	1478.3	1580.8	1557.6	1398.8	1240.1	1231.8
57.5°	15703.3	10374.0	2584.4	1420.3	1453.4	1393.9	1536.1	1504.7	1322.8	1160.7	1157.4
60°	16793.0	11035.5	2624.1	1332.7	1355.9	1316.2	1468.3	1413.8	1236.9	1079.7	1074.8
62.5°	17813.2	11586.1	2559.6	1245.1	1259.9	1243.4	1379.0	1306.3	1150.9	988.8	987.2
65°	18836.6	11913.5	2361.2	1159.1	1162.5	1154.1	1253.4	1190.5	1050.0	909.4	899.5
67.5°	19764.3	12097.0	2045.4	1066.5	1058.2	1054.9	1135.9	1064.9	952.4	830.0	820.1
70°	19961.1	11630.7	1562.5	957.4	957.4	949.1	1007.0	934.2	844.9	745.7	742.4
72.5°	18231.5	9783.7	1109.5	833.3	846.5	830.0	878.0	816.8	735.8	669.6	649.8
75°	14701.3	7174.5	806.9	706.0	729.2	701.1	745.7	702.7	633.2	631.6	568.8
77.5°	10101.3	4436.3	585.4	582.0	598.6	562.2	613.5	590.3	527.5	499.4	467.9
80°	4310.6	1769.3	426.6	449.8	449.8	416.7	476.2	482.8	428.2	415.0	415.0
82.5°	858.1	502.7	299.3	309.2	291.0	281.1	337.3	373.7	515.9	573.8	575.4
85°	258.0	185.2	180.2	168.6	148.8	150.5	198.4	375.4	463.0	264.6	228.2
87.5°	71.1	46.3	48.0	38.0	31.5	41.3	67.8	284.4	155.4	66.1	56.2
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)