

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: P970478

Luminaire Tested: **NAV-SB6B-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970478
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-827-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 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: 30250.8 lumens
Efficiency: N/A
Efficacy: 137.3 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

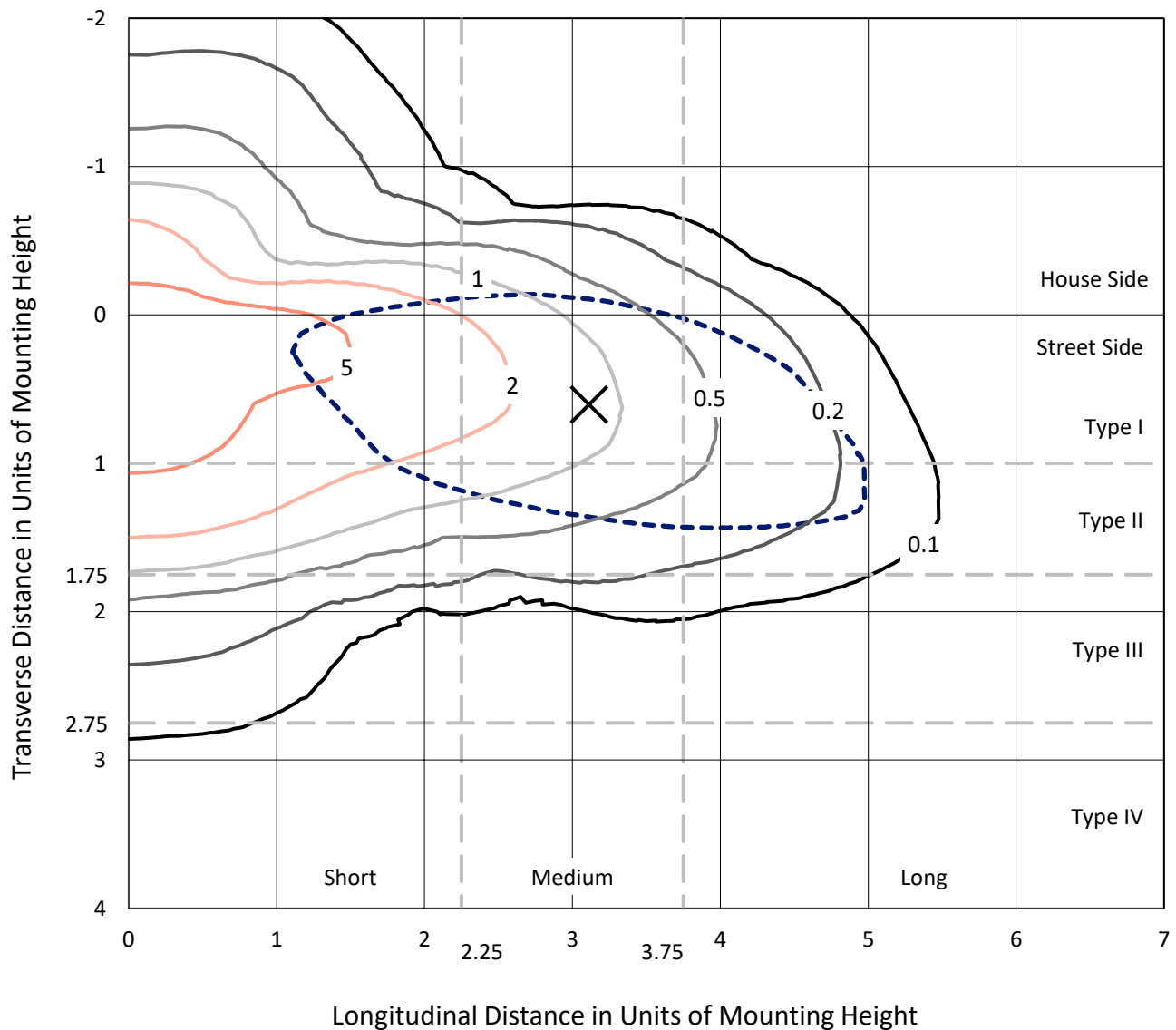


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Iso-Footcandle Lines of Horizontal Illumination

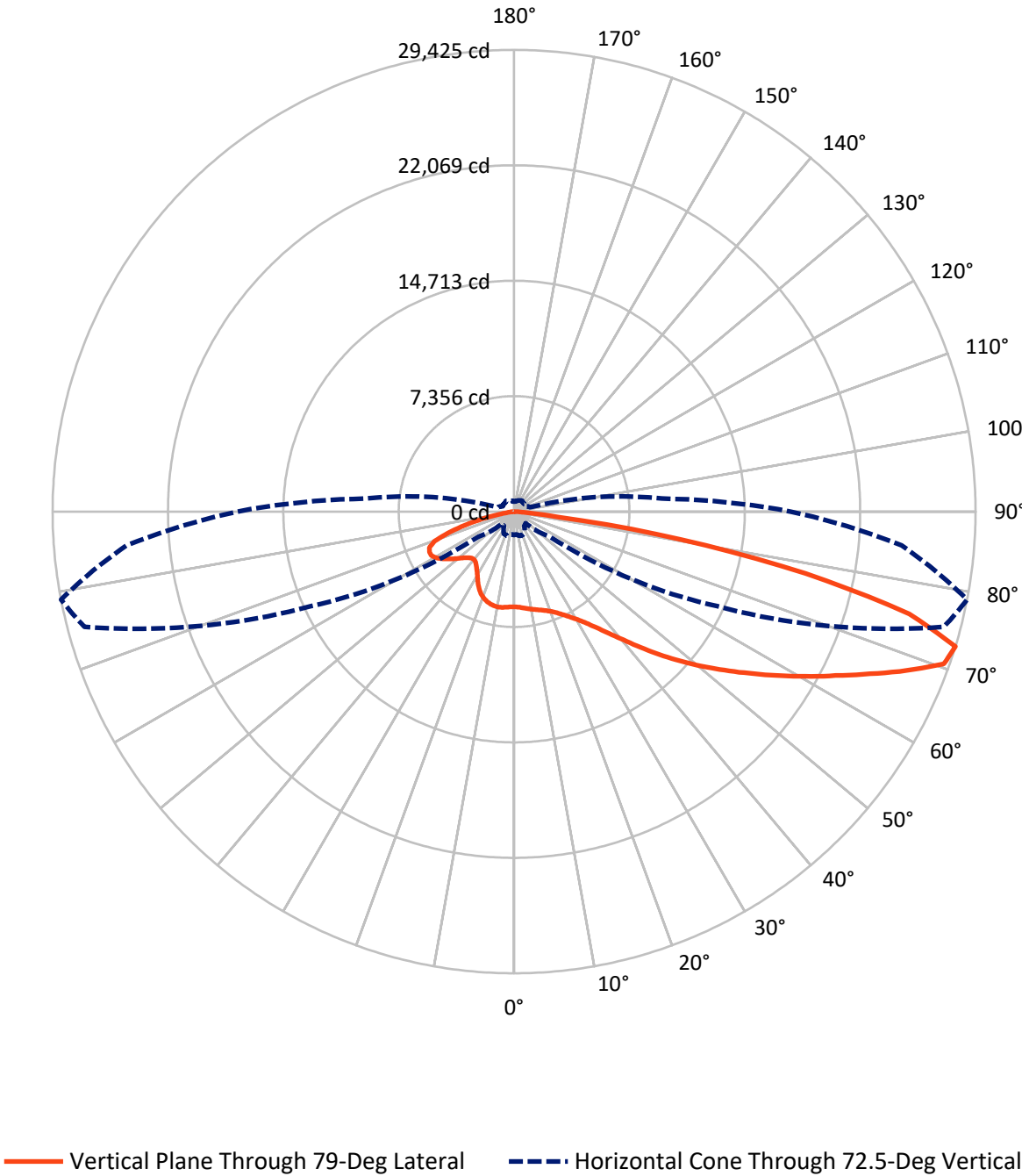
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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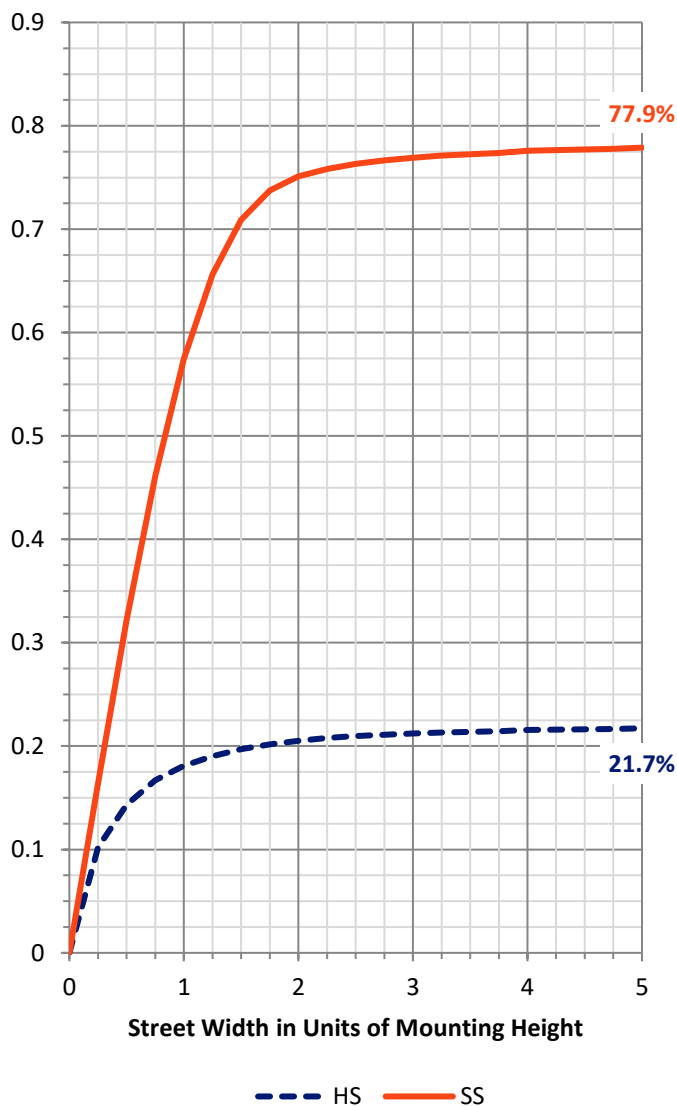
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6656.9	0.0	6656.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	23594.0	0.0	23594.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	30250.8	0.0	30250.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.2	1.8
10°-20°	1441.2	4.8
20°-30°	2325.4	7.7
30°-40°	3490.1	11.5
40°-50°	4951.0	16.4
50°-60°	6252.4	20.7
60°-70°	6350.2	21.0
70°-80°	4327.9	14.3
80°-90°	561.5	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°	30250.8	100.0
0°-180°	30250.8	100.0

Coefficient of Utilization



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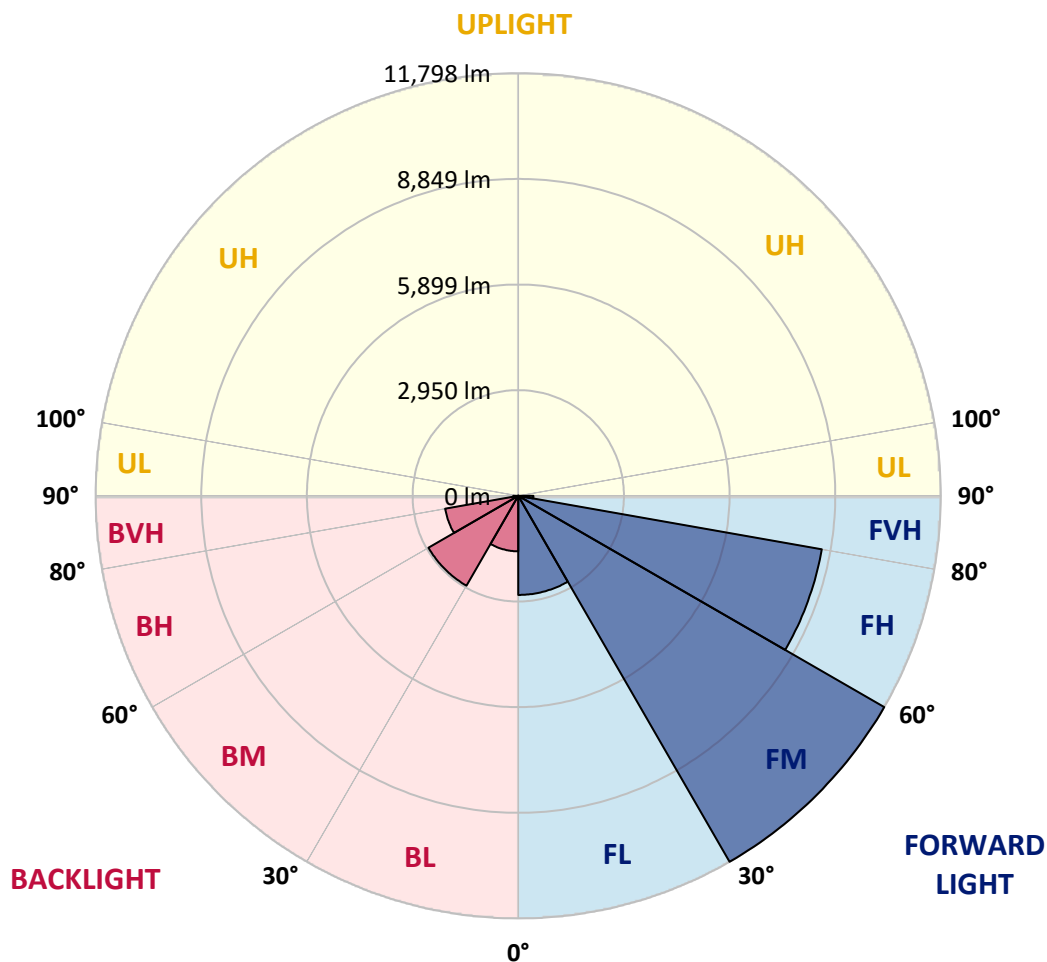
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2767.2	9.1			
FM	(30°-60°)	11798.4	39.0			
FH	(60°-80°)	8605.3	28.4			G4/12000
FVH	(80°-90°)	423.0	1.4			G3/500
BL	(0°-30°)	1550.6	5.1	B3/2500		
BM	(30°-60°)	2895.0	9.6	B3/5000		
BH	(60°-80°)	2072.7	6.9	B3/2500		G3/2500
BVH	(80°-90°)	138.5	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°	6072.6	6072.6	6072.6	6072.6	6072.6	6072.6	6072.6	6072.6	6072.6	6072.6	6072.6
2.5°	6075.8	6047.0	6064.5	6058.2	6066.2	6075.8	6079.0	6083.8	6099.8	6098.1	6096.6
5°	6063.0	6034.2	6058.2	6050.2	6071.0	6093.3	6112.6	6130.2	6155.7	6167.0	6150.9
7.5°	6035.7	6016.5	6040.5	6064.5	6103.0	6136.6	6163.7	6203.8	6240.6	6247.0	6258.1
10°	5877.3	5862.9	5919.0	5981.4	6087.0	6178.2	6237.3	6283.8	6323.8	6330.2	6346.2
12.5°	5712.5	5694.9	5757.3	5842.2	6013.4	6178.2	6303.0	6363.8	6399.0	6419.8	6443.8
15°	5685.4	5670.9	5706.2	5779.8	5922.1	6134.9	6347.8	6459.8	6490.2	6514.2	6523.8
17.5°	5816.6	5789.3	5803.8	5829.4	5912.5	6095.0	6383.0	6568.6	6615.0	6640.7	6640.7
20°	6120.6	6082.1	6059.8	6008.5	5994.2	6101.4	6379.8	6699.8	6760.6	6792.7	6800.7
22.5°	6525.5	6499.8	6451.8	6322.2	6181.4	6179.7	6440.6	6867.8	6981.5	7011.8	6992.7
25°	7015.1	6976.7	6915.9	6739.8	6469.4	6335.0	6543.0	7082.2	7272.7	7280.7	7224.7
27.5°	7578.3	7520.7	7437.5	7205.4	6840.6	6578.2	6699.8	7328.6	7607.1	7603.9	7488.6
30°	8171.9	8114.3	8026.4	7744.7	7285.5	6906.2	6917.4	7594.3	8003.9	7986.4	7789.5
32.5°	8605.6	8562.4	8544.8	8327.2	7797.5	7293.5	7167.1	7888.7	8493.6	8477.6	8202.4
35°	8938.4	8882.4	8903.3	8792.9	8356.0	7727.2	7472.7	8239.2	9088.9	9087.2	8744.8
37.5°	9268.0	9218.4	9236.1	9162.5	8872.8	8277.6	7845.6	8668.0	9826.5	9861.7	9400.9
40°	9568.9	9516.1	9586.5	9517.6	9274.5	8863.2	8269.6	9152.8	10681.0	10748.2	10194.5
42.5°	9749.7	9708.1	9824.9	9826.5	9623.3	9357.6	8735.3	9687.3	11669.9	11820.3	11170.7
45°	9812.1	9797.7	9973.8	10010.6	9932.1	9644.1	9154.5	10269.8	12735.6	13004.4	12282.8
47.5°	9744.9	9717.7	9960.9	10097.0	10159.4	9778.5	9501.6	10900.3	13823.7	14217.4	13495.7
50°	9405.7	9352.9	9714.5	10000.9	10223.3	9866.5	9852.1	11628.3	15060.6	15491.0	14715.0
52.5°	8796.0	8756.1	9167.3	9664.9	10082.5	9909.7	10245.8	12423.5	16235.1	16792.0	15964.7
55°	8016.7	7963.9	8416.8	9066.4	9732.1	9895.3	10639.4	13313.2	17620.9	18185.7	17256.0
57.5°	6781.4	6675.8	7248.7	8016.7	9160.8	9877.7	11049.0	14198.1	19029.0	19705.8	18633.8
60°	4979.7	4822.8	5525.4	6435.8	8044.0	9706.5	11556.3	15190.2	20718.7	21328.4	20137.9
62.5°	2899.5	2808.3	3267.5	4117.2	6063.0	8698.5	11841.1	16343.9	22379.6	23019.8	21616.4
65°	2251.4	2225.8	2265.8	2331.5	3374.7	6512.6	10962.6	17468.9	24491.9	24939.9	23157.3
67.5°	2059.4	2040.2	2057.8	1934.6	1712.2	3627.6	8672.8	17753.6	26754.4	27026.5	24506.3
70°	1830.5	1808.2	1865.8	1760.1	1347.4	1649.7	5603.7	16720.0	28554.7	29065.1	25531.9
72.5°	1491.4	1465.7	1600.1	1552.2	1134.5	1059.3	2814.6	14263.7	28365.8	29425.2	24797.5
75°	1145.7	1131.3	1291.3	1331.4	924.9	833.6	1350.5	10602.6	24962.3	26029.7	21371.6
77.5°	889.7	878.5	960.1	1105.7	745.7	646.5	830.5	6725.4	18811.3	18998.6	14727.8
80°	667.3	635.3	710.4	856.1	580.9	472.0	563.2	3922.0	11890.7	10778.6	6410.2
82.5°	417.7	401.6	464.0	571.2	409.6	324.8	366.4	2166.6	4765.2	2806.7	1236.9
85°	238.4	232.1	252.9	326.5	222.4	187.3	209.6	956.9	870.4	598.5	372.8
87.5°	96.0	92.8	115.2	145.7	81.6	68.8	73.6	230.4	192.0	177.6	123.2
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°	6072.6	6072.6	6072.6	6072.6	6072.6	6072.6	6072.6	6072.6	6072.6	6072.6	6072.6
2.5°	6090.1	6090.1	6067.8	6032.5	5992.6	5966.9	5925.3	5914.1	5871.0	5858.2	5879.0
5°	6163.7	6150.9	6082.1	5982.9	5846.9	5722.2	5584.5	5498.1	5376.5	5333.3	5365.3
7.5°	6256.6	6221.3	6103.0	5885.3	5600.5	5320.5	5029.3	4808.5	4597.2	4522.0	4531.6
10°	6341.4	6291.8	6090.1	5709.4	5216.5	4731.6	4267.6	3942.8	3696.4	3595.5	3617.9
12.5°	6426.2	6335.0	6005.4	5416.5	4670.8	4013.2	3518.7	3265.9	3113.8	2992.3	3032.3
15°	6506.2	6378.2	5874.2	5024.4	4072.4	3405.2	3040.3	2838.6	2717.1	2637.0	2651.5
17.5°	6599.1	6415.0	5677.4	4526.8	3502.7	2984.3	2686.6	2565.1	2541.1	2531.4	2537.8
20°	6728.6	6448.6	5418.2	3969.9	3083.5	2648.3	2494.6	2483.5	2481.8	2477.0	2493.0
22.5°	6867.8	6488.6	5075.7	3464.3	2726.7	2438.6	2411.4	2389.1	2374.6	2373.0	2390.6
25°	7032.6	6501.4	4646.8	3049.9	2422.6	2339.5	2307.4	2273.9	2264.2	2264.2	2273.9
27.5°	7192.6	6458.2	4147.6	2689.8	2251.4	2248.2	2206.6	2195.4	2193.8	2198.6	2211.4
30°	7352.7	6376.6	3651.6	2357.0	2152.2	2152.2	2137.8	2145.8	2152.2	2168.2	2179.4
32.5°	7568.7	6290.2	3237.1	2110.6	2065.8	2049.8	2064.1	2080.2	2086.6	2107.4	2125.0
35°	7885.5	6229.3	2907.5	1976.2	1976.2	1955.4	1963.4	1960.2	1945.8	1936.2	1958.6
37.5°	8304.8	6226.2	2635.5	1913.8	1901.0	1897.8	1899.4	1878.6	1822.6	1755.3	1757.0
40°	8808.8	6312.6	2425.9	1870.6	1861.0	1880.2	1870.6	1814.6	1660.9	1544.2	1541.0
42.5°	9485.7	6559.0	2291.4	1817.7	1846.5	1870.6	1832.2	1638.6	1534.5	1456.1	1452.9
45°	10282.6	6959.0	2222.6	1761.8	1819.4	1848.2	1662.6	1577.8	1494.6	1400.1	1393.7
47.5°	11185.0	7463.1	2206.6	1709.0	1758.6	1776.1	1590.6	1552.2	1457.8	1355.4	1347.4
50°	12167.6	8060.0	2249.8	1646.6	1670.5	1609.8	1566.5	1531.4	1433.8	1332.9	1321.7
52.5°	13183.7	8717.6	2336.2	1561.8	1582.5	1515.4	1557.0	1526.5	1419.3	1283.3	1273.8
55°	14182.1	9380.1	2419.4	1462.6	1492.9	1430.5	1529.7	1507.4	1353.7	1200.1	1192.1
57.5°	15196.6	10039.4	2501.0	1374.5	1406.5	1348.9	1486.6	1456.1	1280.1	1123.3	1120.1
60°	16251.1	10679.4	2539.4	1289.8	1312.1	1273.8	1421.0	1368.2	1196.9	1044.9	1040.1
62.5°	17238.4	11212.3	2477.0	1204.9	1219.3	1203.4	1334.6	1264.1	1113.7	956.9	955.3
65°	18228.9	11529.1	2285.0	1121.7	1124.9	1116.9	1212.9	1152.1	1016.1	880.1	870.4
67.5°	19126.6	11706.7	1979.4	1032.1	1024.1	1020.9	1099.3	1030.5	921.7	803.3	793.7
70°	19317.0	11255.4	1512.2	926.5	926.5	918.5	974.5	904.0	817.6	721.7	718.4
72.5°	17643.2	9468.1	1073.7	806.5	819.3	803.3	849.7	790.5	712.1	648.1	628.8
75°	14226.9	6943.0	780.8	683.3	705.7	678.4	721.7	680.1	612.8	611.2	550.4
77.5°	9775.3	4293.2	566.4	563.2	579.2	544.1	593.7	571.2	510.4	483.3	452.8
80°	4171.5	1712.2	412.9	435.2	435.2	403.2	460.8	467.2	414.4	401.6	401.6
82.5°	830.5	486.5	289.7	299.2	281.7	272.0	326.5	361.6	499.3	555.2	556.9
85°	249.6	179.2	174.5	163.2	144.0	145.7	192.0	363.3	448.0	256.0	220.8
87.5°	68.8	44.8	46.4	36.8	30.4	40.0	65.6	275.2	150.4	64.0	54.4
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)