

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: P964230

Luminaire Tested: **NAV-SB3B-835-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-835-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16278 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 109.2
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



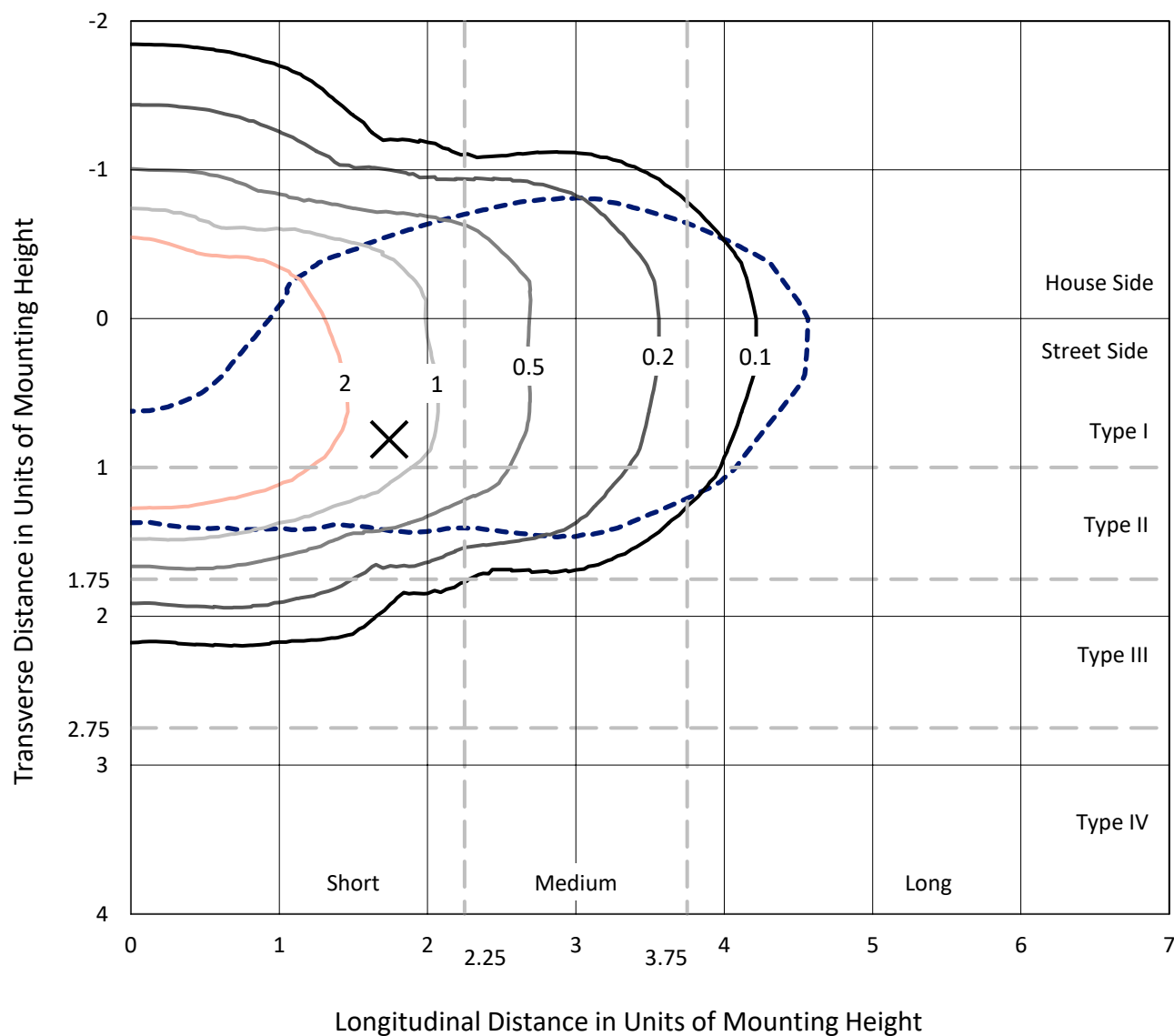
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

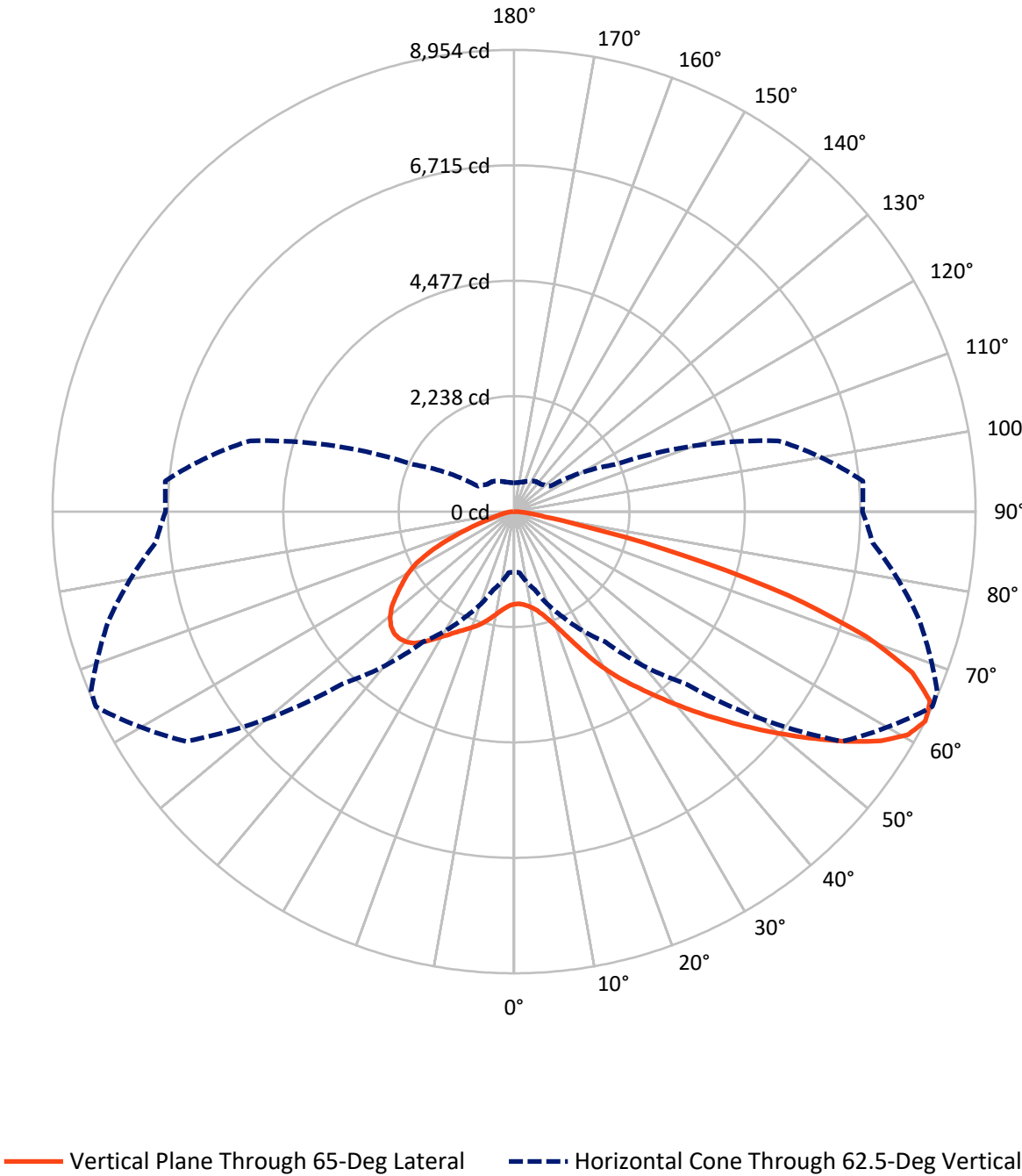


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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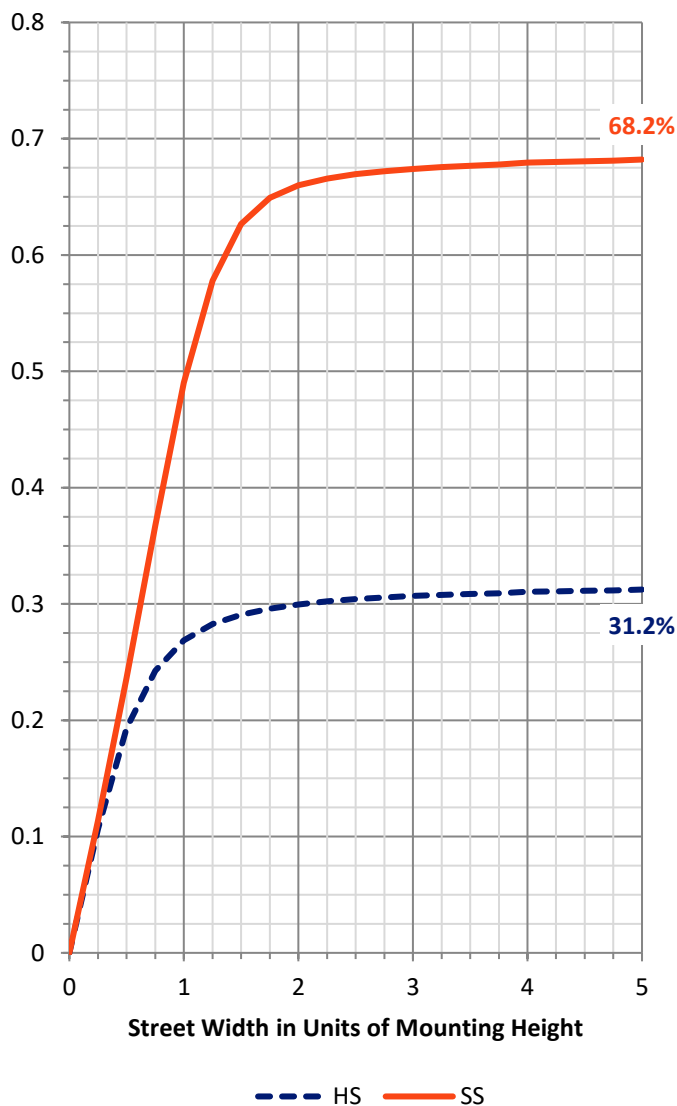
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5136.6	0.0	5136.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	11141.4	0.0	11141.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	16278.0	0.0	16278.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	1.1
10°-20°	606.5	3.7
20°-30°	1229.6	7.6
30°-40°	2127.9	13.1
40°-50°	3220.1	19.8
50°-60°	3775.4	23.2
60°-70°	3165.2	19.4
70°-80°	1747.5	10.7
80°-90°	227.0	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°	16278.0	100.0
0°-180°	16278.0	100.0

Coefficient of Utilization



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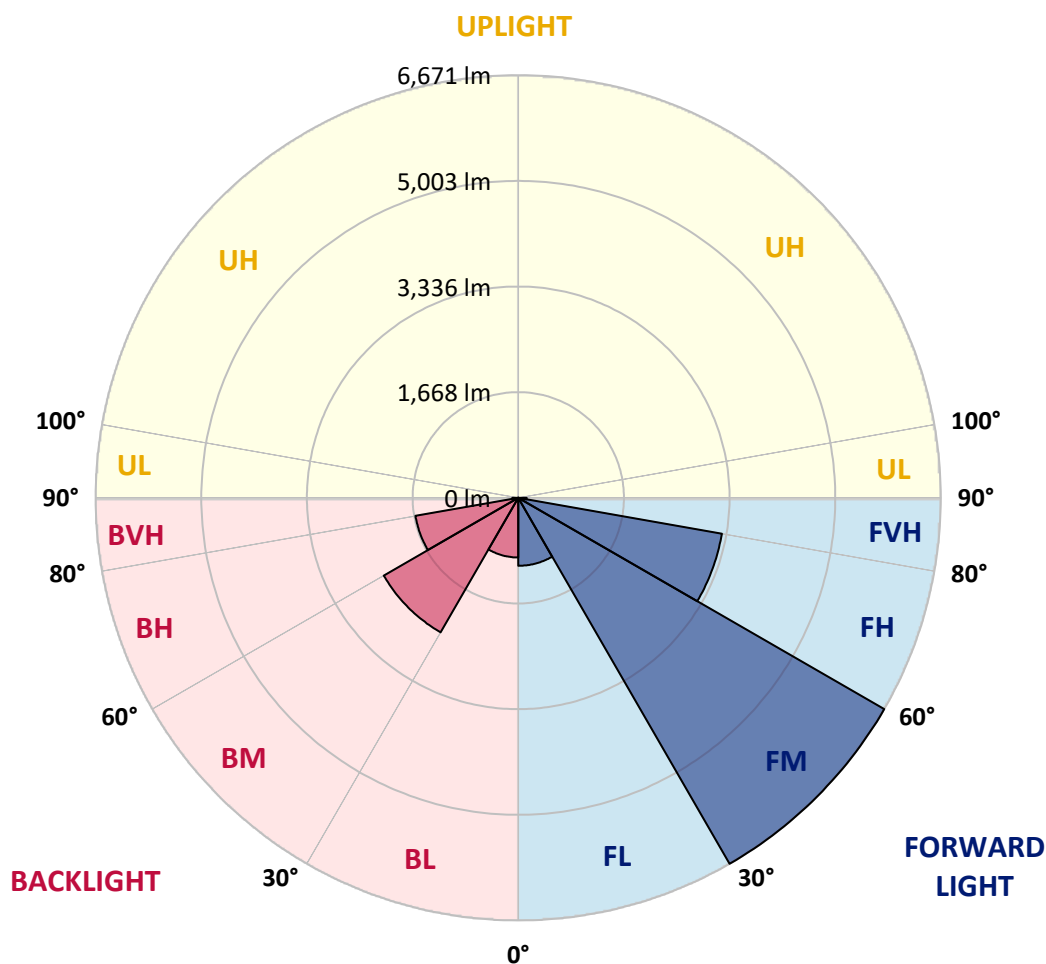
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1072.9	6.6			
FM	(30°-60°)	6671.3	41.0			
FH	(60°-80°)	3264.9	20.1			G2/5000
FVH	(80°-90°)	132.3	0.8			G2/225
BL	(0°-30°)	942.0	5.8	B2/1000		
BM	(30°-60°)	2452.1	15.1	B2/2500		
BH	(60°-80°)	1647.8	10.1	B3/2500		G3/2500
BVH	(80°-90°)	94.7	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7
2.5°	1782.0	1776.8	1781.1	1781.1	1782.8	1782.0	1787.8	1789.5	1792.1	1797.1	1797.1
5°	1764.2	1763.4	1771.0	1777.8	1784.5	1790.4	1798.0	1808.9	1810.7	1816.6	1824.2
7.5°	1758.3	1753.3	1765.0	1773.5	1789.5	1803.9	1824.2	1842.7	1850.3	1852.9	1867.2
10°	1803.9	1795.5	1806.5	1811.5	1825.0	1839.4	1863.0	1892.6	1901.1	1911.1	1927.2
12.5°	1881.6	1872.3	1888.4	1895.9	1908.7	1921.3	1937.4	1966.1	1970.3	1988.8	2004.1
15°	1988.0	1977.0	1987.2	1996.5	2017.6	2029.4	2045.4	2073.3	2073.3	2087.6	2098.7
17.5°	2132.4	2118.1	2125.6	2129.0	2142.6	2160.3	2187.4	2211.8	2224.5	2219.4	2204.2
20°	2347.8	2330.0	2330.0	2313.1	2308.1	2322.4	2357.9	2391.7	2405.2	2379.0	2341.8
22.5°	2671.3	2645.9	2631.6	2574.1	2551.3	2553.0	2588.4	2629.8	2640.8	2594.4	2510.7
25°	3082.5	3042.8	3023.4	2939.0	2887.4	2842.6	2870.5	2923.7	2939.0	2881.5	2746.4
27.5°	3493.8	3496.4	3477.7	3376.5	3291.1	3209.2	3194.8	3250.6	3266.6	3201.6	3034.4
30°	4070.6	4010.6	3975.2	3853.6	3731.9	3617.1	3558.0	3580.7	3585.0	3507.3	3313.1
32.5°	4568.0	4552.8	4476.8	4370.4	4214.2	4034.3	3935.5	3899.2	3892.4	3781.7	3551.2
35°	5134.7	5126.2	5046.1	4919.4	4750.5	4500.5	4322.2	4218.4	4210.0	4054.6	3786.9
37.5°	5710.7	5710.7	5632.2	5493.6	5318.8	5006.3	4735.2	4570.6	4543.5	4340.9	4026.7
40°	6170.1	6142.2	6156.6	6098.3	5898.2	5566.3	5193.8	4954.8	4918.5	4675.3	4281.7
42.5°	6431.1	6421.7	6507.9	6572.9	6491.0	6225.8	5698.8	5371.2	5320.5	5043.5	4575.6
45°	6489.3	6479.2	6632.9	6871.1	6985.9	6876.9	6247.8	5809.5	5747.8	5428.6	4890.7
47.5°	6355.0	6334.8	6560.3	6936.1	7304.3	7496.0	6842.3	6285.0	6195.4	5803.5	5214.1
50°	5951.4	5932.0	6273.1	6772.3	7411.6	7916.6	7487.5	6789.1	6652.4	6205.6	5540.9
52.5°	5073.9	5083.2	5617.8	6303.5	7270.5	8178.4	8043.3	7320.3	7155.6	6616.9	5847.5
55°	3952.4	3972.6	4629.7	5384.6	6706.4	8138.7	8422.4	7867.6	7703.7	7003.6	6164.1
57.5°	2830.0	2919.5	3535.2	4282.6	5622.8	7509.5	8505.2	8387.8	8229.0	7425.9	6474.1
60°	1834.3	1850.3	2483.8	3237.1	4281.7	6391.4	8337.1	8782.2	8658.1	7856.6	6733.4
62.5°	1175.6	1186.5	1572.5	2264.1	3081.7	4728.5	7771.3	8953.7	8915.7	8141.2	6982.5
65°	864.0	855.5	1056.5	1496.5	2075.8	2916.1	6672.5	8870.9	8946.0	8319.4	7188.6
67.5°	721.2	709.4	808.2	1036.3	1529.4	1656.1	4937.1	8332.9	8608.3	8299.1	7339.7
70°	657.0	646.9	706.8	769.4	1193.3	1108.8	2488.8	7244.3	7668.2	8068.6	7315.2
72.5°	556.6	538.8	620.7	683.3	928.1	850.4	1028.6	5564.5	6081.4	7329.6	6970.7
75°	431.5	419.7	489.8	601.3	697.6	663.8	650.3	3378.9	3943.1	5668.5	6098.3
77.5°	342.0	326.0	390.2	468.7	627.5	500.8	473.8	1455.1	2014.2	3618.8	4563.0
80°	257.6	243.2	296.4	370.7	482.3	377.5	306.6	593.7	759.2	1833.4	2294.6
82.5°	183.3	170.6	206.9	271.9	324.3	338.7	188.3	332.7	374.1	706.8	512.6
85°	117.4	109.8	138.5	170.6	206.0	217.9	114.9	173.9	190.9	291.4	213.7
87.5°	64.2	52.4	74.3	79.3	95.4	87.0	54.9	63.3	68.4	105.6	90.4
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°	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7
2.5°	1800.5	1803.1	1811.5	1814.0	1820.0	1827.6	1832.6	1837.7	1837.7	1842.7	1842.7
5°	1825.0	1831.0	1848.7	1857.9	1873.2	1888.4	1897.7	1908.7	1915.4	1918.8	1920.4
7.5°	1872.3	1881.6	1906.9	1923.0	1949.1	1970.3	1984.6	1999.9	2003.3	2012.5	2009.1
10°	1936.5	1947.5	1976.2	2006.5	2037.8	2064.0	2077.6	2088.5	2092.7	2094.4	2090.2
12.5°	2009.9	2026.0	2063.1	2100.3	2133.2	2156.1	2159.5	2156.9	2145.1	2135.0	2135.0
15°	2100.3	2114.7	2156.1	2196.6	2228.7	2233.0	2211.8	2198.3	2184.0	2181.4	2181.4
17.5°	2208.5	2216.0	2254.1	2293.7	2296.3	2281.9	2250.7	2238.0	2224.5	2215.2	2216.0
20°	2334.2	2331.8	2358.7	2375.6	2357.9	2314.0	2266.7	2245.6	2232.0	2221.1	2221.9
22.5°	2484.6	2465.1	2461.7	2457.5	2410.3	2318.2	2254.1	2227.0	2205.9	2190.7	2195.8
25°	2703.3	2629.0	2577.5	2548.8	2442.4	2295.4	2213.5	2153.5	2113.9	2087.6	2097.8
27.5°	2976.9	2852.0	2721.9	2651.8	2442.4	2249.0	2115.5	2018.4	1953.3	1926.4	1939.9
30°	3237.9	3107.0	2915.3	2775.9	2436.4	2173.0	1957.6	1822.4	1746.5	1719.4	1735.5
32.5°	3460.8	3318.1	3120.5	2911.9	2422.1	2049.7	1761.7	1612.2	1538.7	1506.6	1522.6
35°	3667.8	3515.7	3326.5	3061.4	2384.0	1868.9	1546.3	1432.3	1350.4	1298.9	1315.8
37.5°	3879.7	3699.0	3521.7	3196.6	2315.7	1657.8	1380.8	1283.7	1187.4	1118.2	1136.7
40°	4110.2	3894.1	3730.3	3276.7	2203.3	1456.8	1252.4	1163.8	1061.6	988.1	1002.4
42.5°	4379.7	4128.0	3962.5	3318.1	2049.7	1314.0	1168.8	1081.8	985.5	925.6	937.5
45°	4660.9	4385.6	4174.5	3317.3	1878.2	1247.3	1141.7	1055.6	949.3	886.7	896.9
47.5°	4955.7	4655.0	4357.8	3263.2	1729.6	1256.6	1126.6	999.1	881.7	820.9	829.3
50°	5251.3	4949.7	4535.1	3161.9	1666.2	1236.4	1070.0	919.7	781.2	726.3	729.7
52.5°	5544.3	5263.1	4687.9	3017.5	1602.1	1161.2	997.4	816.6	739.8	701.8	701.8
55°	5839.0	5573.0	4854.3	2807.2	1441.6	1073.4	875.8	777.8	706.8	672.2	668.8
57.5°	6134.6	5931.1	5012.2	2596.9	1239.7	965.2	809.0	730.5	673.9	644.4	639.3
60°	6442.0	6340.6	5175.2	2403.5	1040.5	826.8	760.0	692.5	635.1	602.2	599.6
62.5°	6758.7	6791.6	5302.7	2154.3	857.2	742.3	716.2	646.9	591.1	560.0	559.0
65°	7077.9	7226.6	5386.4	1808.9	695.1	662.2	668.8	597.1	540.5	513.4	512.6
67.5°	7318.6	7539.9	5362.7	1369.0	570.0	586.1	609.8	544.7	491.5	470.4	471.3
70°	7345.7	7502.8	5129.6	937.5	477.1	511.8	543.9	493.2	438.3	423.1	423.9
72.5°	6985.9	6996.0	4480.2	612.2	403.6	449.3	474.6	440.9	387.7	372.5	371.6
75°	6042.6	5785.8	3289.4	403.6	337.8	385.9	409.6	385.9	334.5	337.8	326.0
77.5°	4578.2	4097.6	1997.3	287.1	282.1	324.3	356.4	339.5	295.6	331.9	292.2
80°	2358.7	2216.9	890.9	214.5	222.9	259.2	293.0	271.1	233.9	222.9	203.6
82.5°	540.5	628.3	351.4	153.8	161.3	186.7	223.8	203.6	168.1	141.9	140.2
85°	189.2	206.9	155.4	96.2	94.6	116.5	152.0	136.0	114.0	91.2	96.2
87.5°	60.0	78.5	58.3	38.8	40.5	52.4	70.1	64.2	53.2	34.6	36.3
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)