

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: P962494

Luminaire Tested: **NAV-SB2C-740-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962494
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-SB2C-740-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

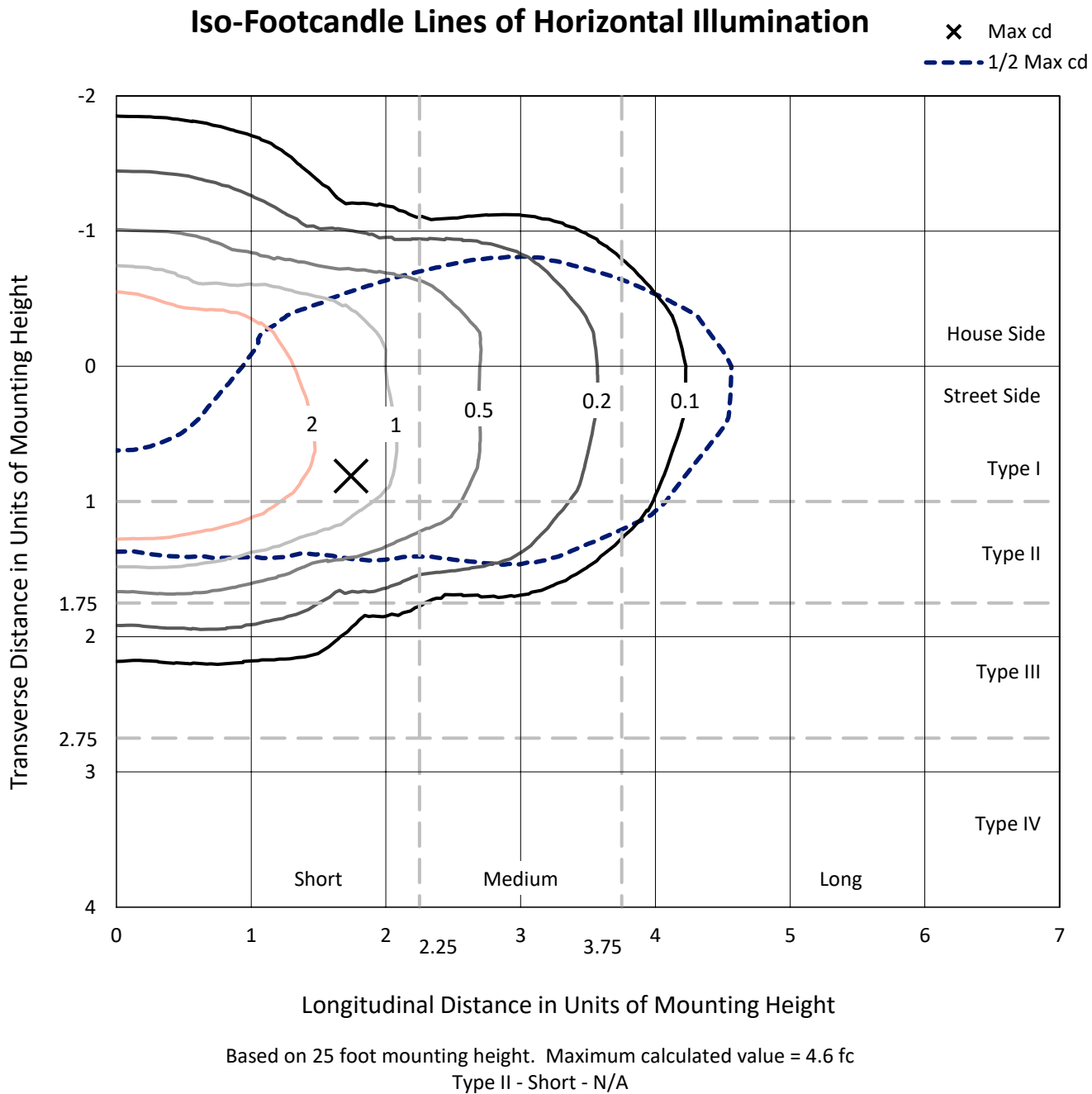
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16458.4 lumens
Efficiency: N/A
Efficacy: 163.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 100.9
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

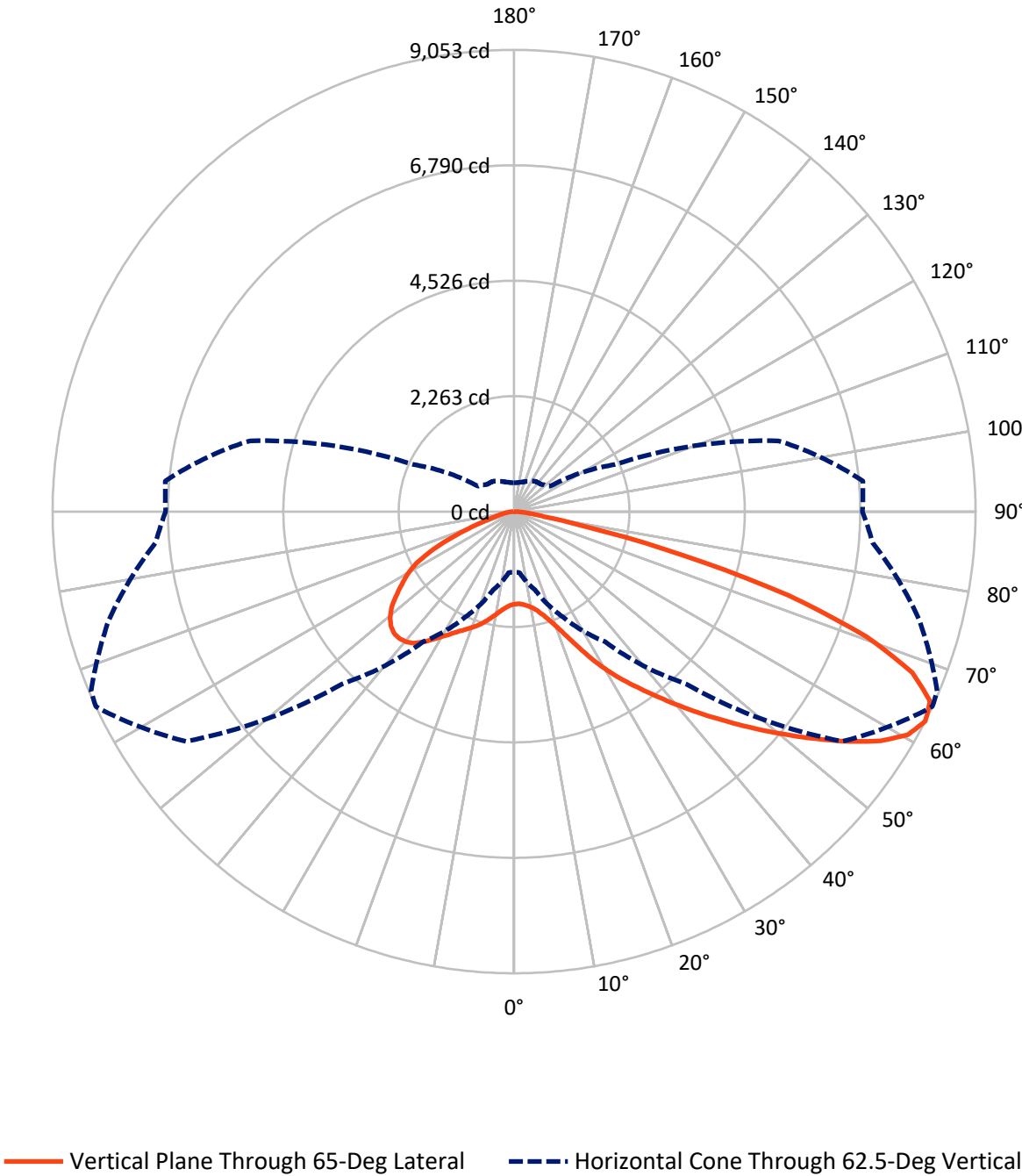


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Luminous Intensity Polar Plot



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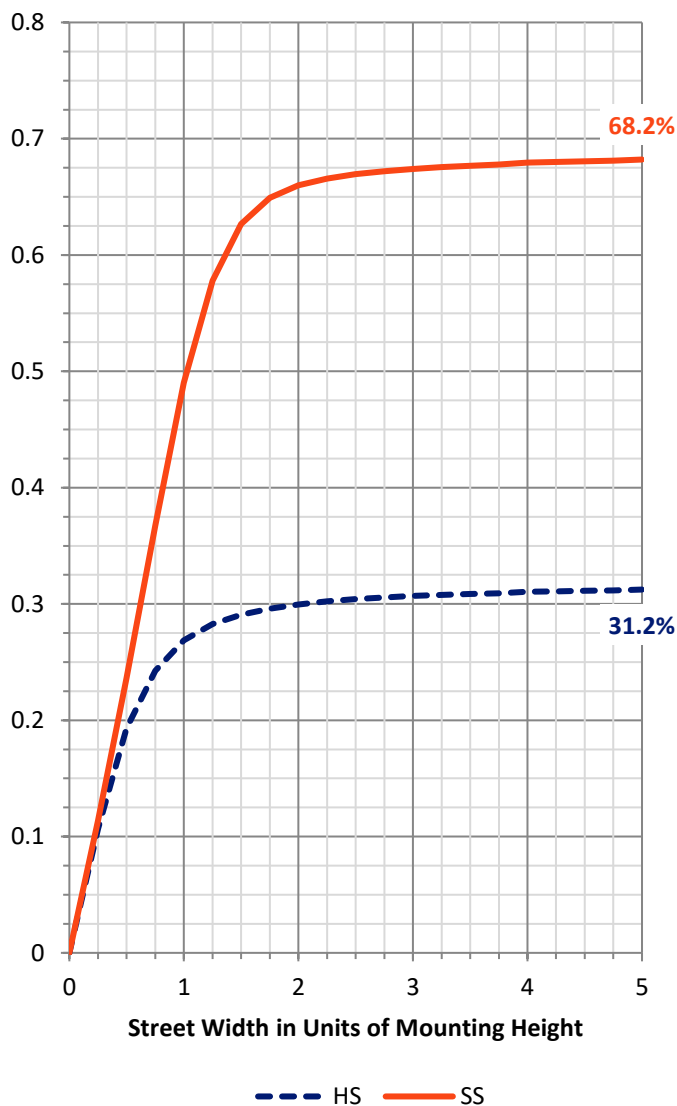
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5193.6	0.0	5193.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	11264.9	0.0	11264.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	16458.4	0.0	16458.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.8	1.1
10°-20°	613.2	3.7
20°-30°	1243.3	7.6
30°-40°	2151.5	13.1
40°-50°	3255.8	19.8
50°-60°	3817.2	23.2
60°-70°	3200.3	19.4
70°-80°	1766.8	10.7
80°-90°	229.5	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°	16458.4	100.0
0°-180°	16458.4	100.0

Coefficient of Utilization



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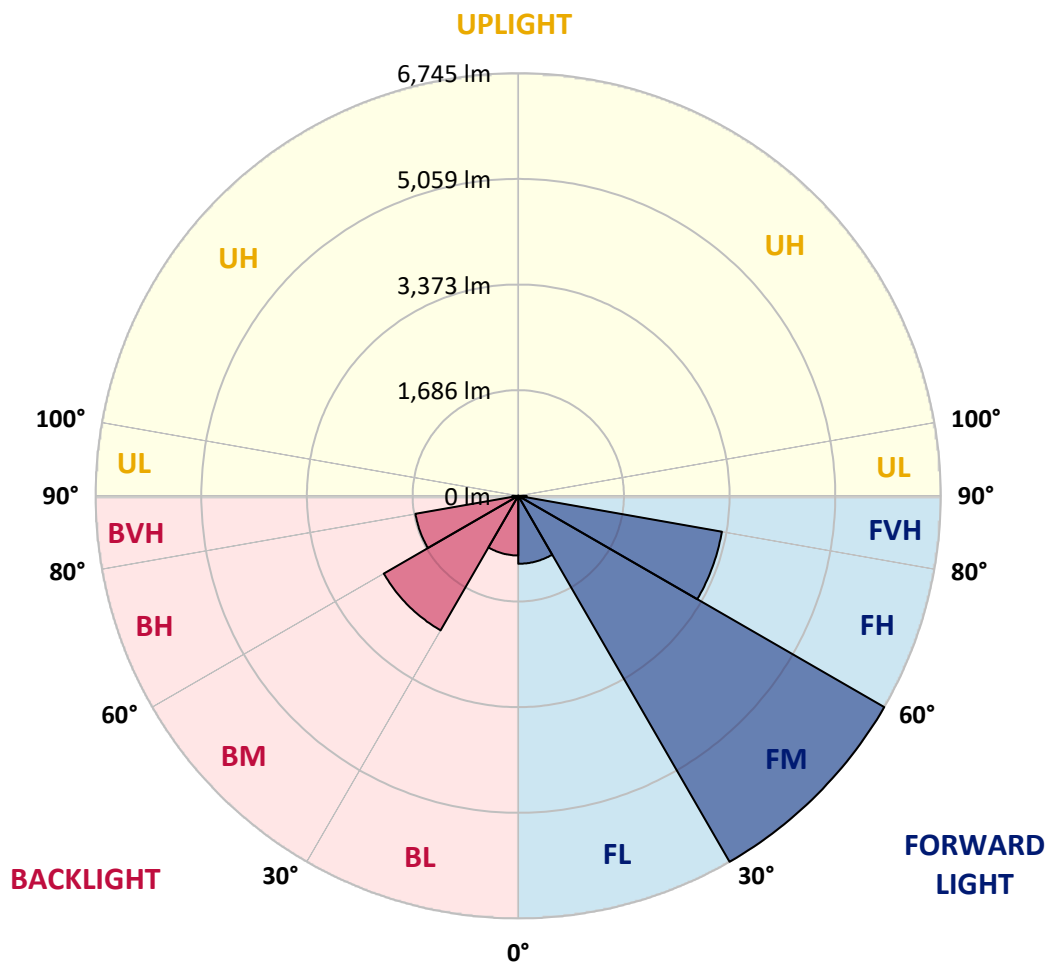
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1084.8	6.6			
FM	(30°-60°)	6745.2	41.0			
FH	(60°-80°)	3301.1	20.1			G2/5000
FVH	(80°-90°)	133.8	0.8			G2/225
BL	(0°-30°)	952.4	5.8	B2/1000		
BM	(30°-60°)	2479.3	15.1	B2/2500		
BH	(60°-80°)	1666.1	10.1	B3/2500		G3/2500
BVH	(80°-90°)	95.7	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°	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6
2.5°	1801.6	1796.6	1800.8	1800.8	1802.6	1801.6	1807.7	1809.3	1811.9	1817.0	1817.0
5°	1783.8	1782.9	1790.6	1797.4	1804.2	1810.3	1817.9	1829.0	1830.8	1836.7	1844.4
7.5°	1777.8	1772.6	1784.6	1793.1	1809.3	1823.9	1844.4	1863.1	1870.8	1873.4	1887.9
10°	1823.9	1815.4	1826.4	1831.6	1845.2	1859.8	1883.6	1913.6	1922.1	1932.3	1948.5
12.5°	1902.4	1893.1	1909.3	1917.0	1929.8	1942.6	1958.8	1987.9	1992.1	2010.8	2026.2
15°	2010.0	1999.0	2009.2	2018.5	2040.0	2051.8	2068.1	2096.3	2096.3	2110.8	2121.9
17.5°	2156.1	2141.5	2149.2	2152.6	2166.3	2184.3	2211.5	2236.3	2249.2	2244.0	2228.7
20°	2373.8	2355.9	2355.9	2338.7	2333.6	2348.2	2384.0	2418.2	2431.8	2405.4	2367.9
22.5°	2700.9	2675.2	2660.7	2602.7	2579.6	2581.3	2617.1	2659.0	2670.1	2623.1	2538.6
25°	3116.7	3076.5	3056.9	2971.5	2919.4	2874.2	2902.4	2956.1	2971.5	2913.5	2776.8
27.5°	3532.6	3535.1	3516.3	3413.9	3327.6	3244.7	3230.3	3286.6	3302.9	3237.1	3068.0
30°	4115.7	4055.1	4019.2	3896.2	3773.3	3657.2	3597.4	3620.5	3624.7	3546.2	3349.8
32.5°	4618.6	4603.3	4526.4	4418.9	4260.9	4079.0	3979.0	3942.4	3935.6	3823.7	3590.6
35°	5191.6	5183.1	5101.9	4973.9	4803.0	4550.4	4370.2	4265.1	4256.6	4099.5	3828.8
37.5°	5773.9	5773.9	5694.6	5554.5	5377.8	5061.9	4787.7	4621.2	4593.8	4388.9	4071.3
40°	6238.5	6210.3	6224.8	6165.9	5963.6	5628.0	5251.4	5009.7	4973.0	4727.1	4329.2
42.5°	6502.3	6493.0	6580.0	6645.8	6563.0	6294.8	5762.0	5430.7	5379.5	5099.4	4626.3
45°	6561.2	6551.0	6706.4	6947.1	7063.3	6953.2	6317.1	5873.9	5811.5	5488.8	4944.8
47.5°	6425.4	6405.0	6633.0	7012.9	7385.2	7579.1	6918.1	6354.6	6264.1	5867.9	5271.9
50°	6017.3	5997.7	6342.6	6847.3	7493.7	8004.3	7570.5	6864.3	6726.0	6274.3	5602.3
52.5°	5130.1	5139.6	5680.0	6373.3	7351.1	8269.0	8132.4	7401.4	7235.0	6690.2	5912.3
55°	3996.2	4016.7	4681.0	5444.4	6780.7	8228.9	8515.8	7954.8	7789.1	7081.2	6232.5
57.5°	2861.4	2951.9	3574.4	4330.0	5685.2	7592.7	8599.4	8480.7	8320.2	7508.2	6545.9
60°	1854.6	1870.8	2511.2	3272.9	4329.2	6462.2	8429.5	8879.6	8754.0	7943.6	6808.0
62.5°	1188.6	1199.7	1590.0	2289.2	3115.8	4780.9	7857.4	9052.9	9014.5	8231.5	7059.9
65°	873.5	865.0	1068.3	1513.1	2098.9	2948.4	6746.6	8969.2	9045.2	8411.6	7268.3
67.5°	729.2	717.3	817.1	1047.8	1546.4	1674.4	4991.8	8425.3	8703.6	8391.1	7421.1
70°	664.3	654.1	714.7	777.9	1206.5	1121.1	2516.4	7324.6	7753.3	8158.0	7396.3
72.5°	562.7	544.8	627.6	690.7	938.4	859.9	1040.1	5626.2	6148.8	7410.9	7047.9
75°	436.3	424.4	495.3	607.9	705.3	671.2	657.5	3416.4	3986.7	5731.3	6165.9
77.5°	345.8	329.6	394.5	473.9	634.5	506.4	479.0	1471.3	2036.5	3658.8	4613.5
80°	260.5	245.9	299.7	374.8	487.6	381.7	310.0	600.2	767.6	1853.8	2320.0
82.5°	185.3	172.5	209.2	274.9	327.9	342.5	190.4	336.4	378.2	714.7	518.3
85°	118.7	111.0	140.0	172.5	208.4	220.3	116.1	175.9	193.0	294.6	216.1
87.5°	64.9	52.9	75.1	80.3	96.5	87.9	55.5	64.1	69.2	106.7	91.3
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°	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6
2.5°	1820.5	1823.1	1831.6	1834.1	1840.1	1847.8	1852.9	1858.0	1858.0	1863.1	1863.1
5°	1845.2	1851.3	1869.2	1878.5	1893.9	1909.3	1918.7	1929.8	1936.6	1940.0	1941.8
7.5°	1893.1	1902.4	1928.0	1944.3	1970.8	1992.1	2006.6	2022.0	2025.4	2034.8	2031.3
10°	1958.0	1969.0	1998.1	2028.8	2060.5	2086.9	2100.5	2111.6	2115.9	2117.6	2113.3
12.5°	2032.3	2048.5	2086.1	2123.6	2156.9	2180.0	2183.4	2180.8	2168.9	2158.6	2158.6
15°	2123.6	2138.1	2180.0	2221.0	2253.4	2257.7	2236.3	2222.6	2208.2	2205.6	2205.6
17.5°	2232.9	2240.5	2279.0	2319.2	2321.7	2307.2	2275.6	2262.8	2249.2	2239.7	2240.5
20°	2360.2	2357.6	2384.9	2402.0	2384.0	2339.7	2291.8	2270.5	2256.8	2245.7	2246.6
22.5°	2512.2	2492.5	2489.1	2484.8	2436.9	2343.9	2279.0	2251.7	2230.3	2214.9	2220.0
25°	2733.3	2658.1	2606.1	2577.1	2469.4	2320.8	2238.0	2177.4	2137.2	2110.8	2121.0
27.5°	3009.9	2883.5	2752.0	2681.2	2469.4	2273.9	2139.0	2040.8	1975.1	1947.7	1961.3
30°	3273.7	3141.4	2947.6	2806.8	2463.5	2197.1	1979.3	1842.6	1765.9	1738.5	1754.7
32.5°	3499.2	3354.9	3155.1	2944.2	2448.9	2072.3	1781.2	1630.1	1555.7	1523.4	1539.6
35°	3708.4	3554.7	3363.4	3095.3	2410.5	1889.7	1563.4	1448.2	1365.4	1313.2	1330.3
37.5°	3922.8	3740.0	3560.6	3231.9	2341.3	1676.2	1396.0	1297.9	1200.6	1130.6	1149.3
40°	4155.9	3937.2	3771.6	3313.1	2227.7	1472.9	1266.3	1176.7	1073.4	999.1	1013.5
42.5°	4428.2	4173.8	4006.4	3354.9	2072.3	1328.6	1181.8	1093.8	996.5	935.8	947.8
45°	4712.5	4434.3	4220.7	3354.0	1899.0	1261.2	1154.5	1067.3	959.8	896.6	906.8
47.5°	5010.6	4706.6	4406.1	3299.4	1748.8	1270.6	1139.1	1010.1	891.4	829.9	838.6
50°	5309.4	5004.6	4585.3	3197.0	1684.7	1250.1	1081.9	929.9	789.9	734.3	737.8
52.5°	5605.7	5321.4	4739.9	3050.9	1619.8	1174.1	1008.4	825.7	748.0	709.6	709.6
55°	5903.8	5634.7	4908.1	2838.3	1457.6	1085.3	885.5	786.4	714.7	679.7	676.3
57.5°	6202.6	5996.9	5067.8	2625.6	1253.5	976.0	818.1	738.6	681.4	651.5	646.4
60°	6513.5	6411.0	5232.6	2430.2	1052.0	836.0	768.5	700.2	642.2	608.8	606.3
62.5°	6833.7	6866.9	5361.6	2178.2	866.7	750.6	724.1	654.1	597.7	566.1	565.3
65°	7156.3	7306.7	5446.0	1829.0	702.7	669.4	676.3	603.7	546.5	519.2	518.3
67.5°	7399.8	7623.4	5422.1	1384.2	576.4	592.6	616.5	550.7	496.9	475.6	476.4
70°	7427.0	7585.9	5186.5	947.8	482.5	517.4	549.9	498.7	443.2	427.8	428.7
72.5°	7063.3	7073.5	4529.9	619.1	408.2	454.3	479.9	445.8	392.0	376.6	375.7
75°	6109.5	5850.0	3325.9	408.2	341.5	390.2	414.1	390.2	338.1	341.5	329.6
77.5°	4628.9	4143.0	2019.5	290.3	285.2	327.9	360.3	343.3	298.9	335.6	295.4
80°	2384.9	2241.5	900.9	216.9	225.4	262.1	296.3	274.1	236.6	225.4	205.8
82.5°	546.5	635.3	355.3	155.4	163.1	188.7	226.3	205.8	169.9	143.5	141.8
85°	191.3	209.2	157.1	97.4	95.6	117.9	153.8	137.5	115.3	92.2	97.4
87.5°	60.6	79.4	58.9	39.3	41.0	52.9	70.8	64.9	53.8	35.1	36.7
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)