

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: P963676

Luminaire Tested: **NAV-SB3A-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-830-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

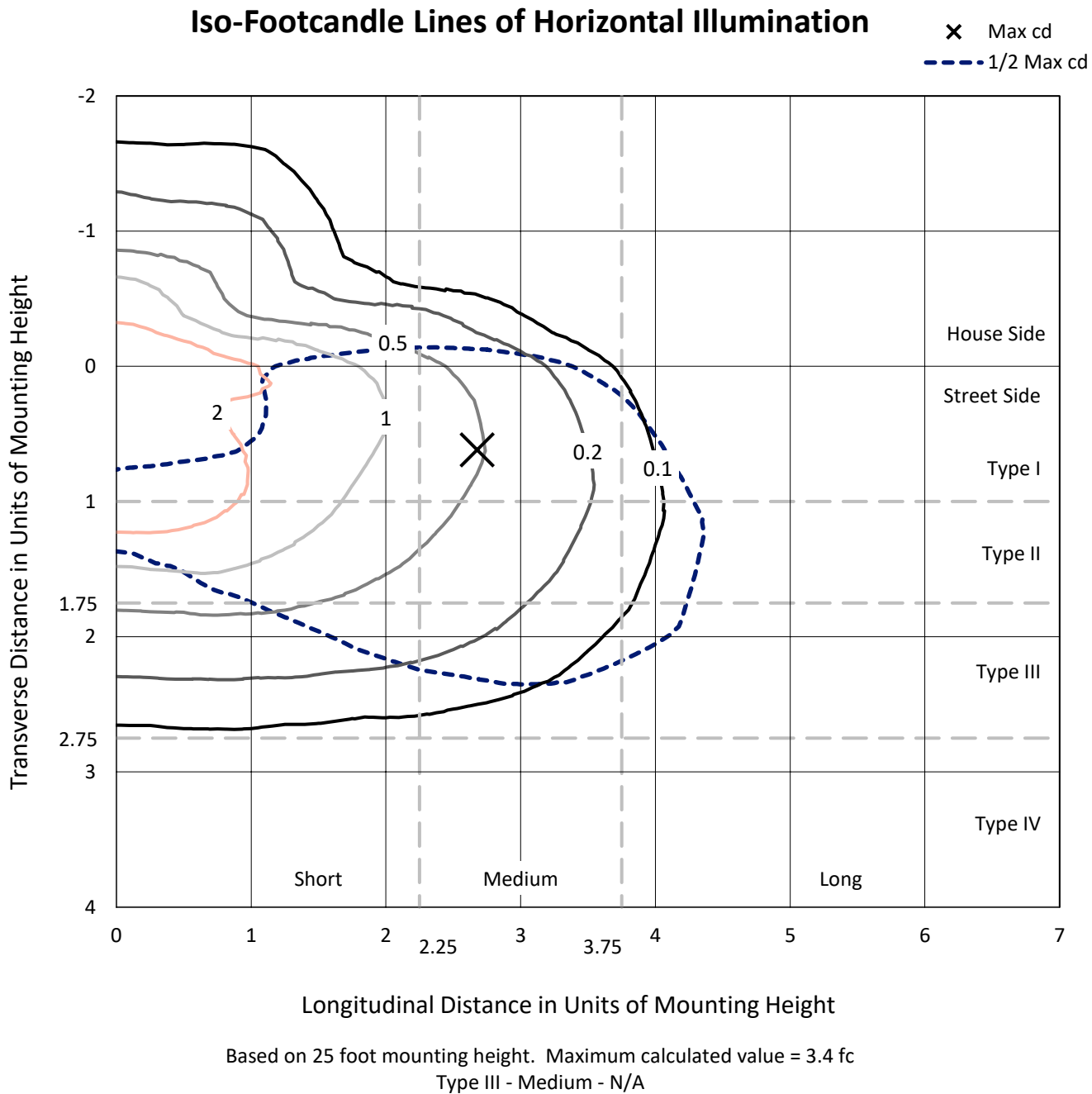
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12725.4 lumens
Efficiency: N/A
Efficacy: 150.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 84.7
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



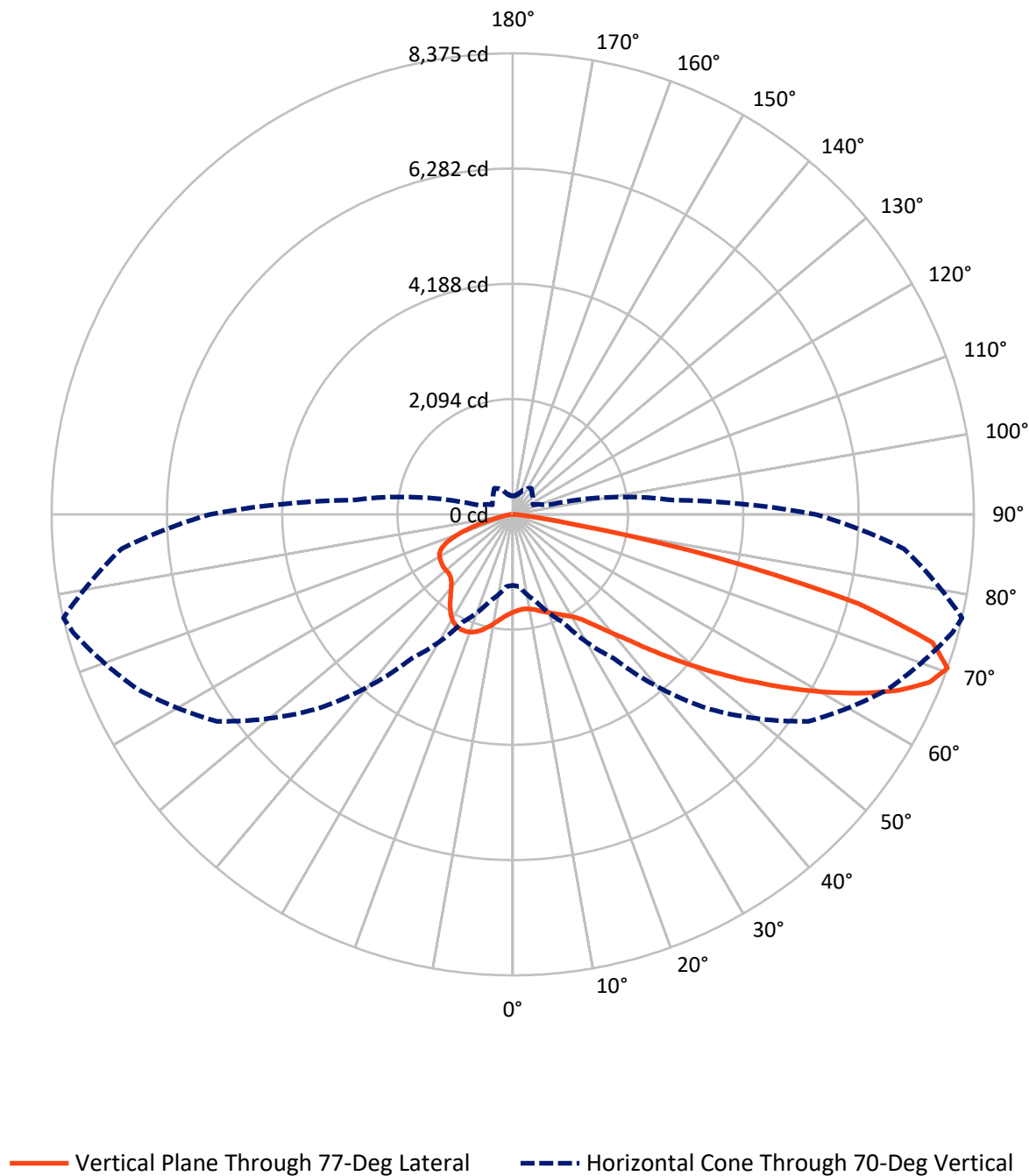
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Luminous Intensity Polar Plot



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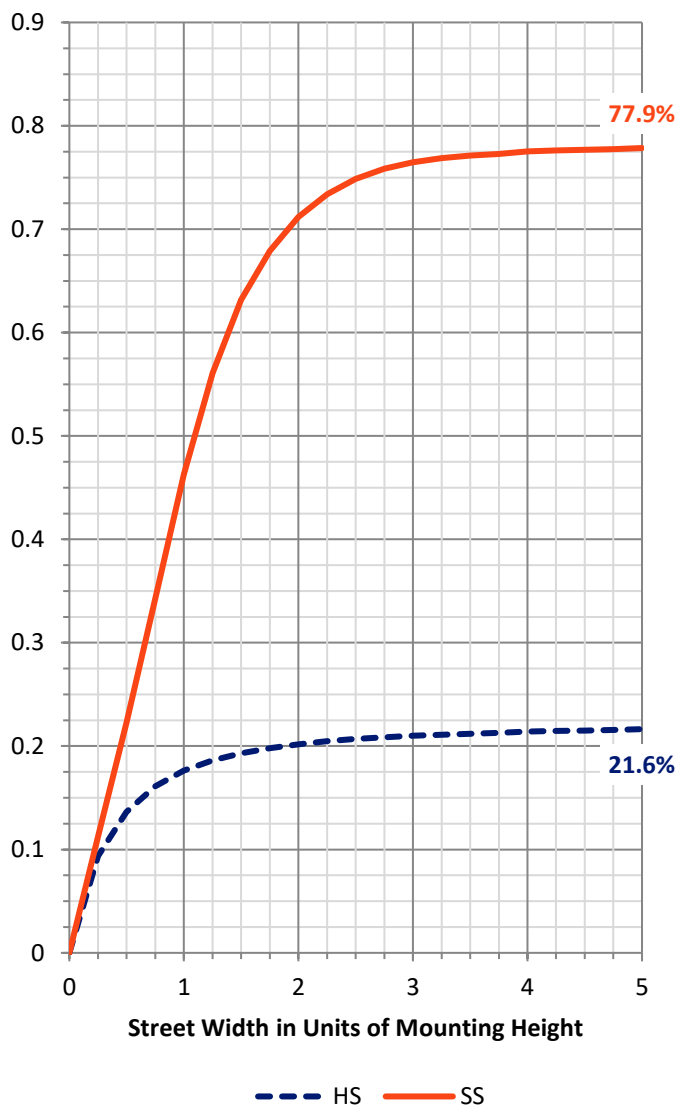
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2786.7	0.0	2786.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	9938.7	0.0	9938.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	12725.4	0.0	12725.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	1.3
10°-20°	488.7	3.8
20°-30°	835.7	6.6
30°-40°	1343.9	10.6
40°-50°	2098.1	16.5
50°-60°	2802.6	22.0
60°-70°	2987.1	23.5
70°-80°	1838.9	14.5
80°-90°	161.1	1.3
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°	12725.4	100.0
0°-180°	12725.4	100.0

Coefficient of Utilization



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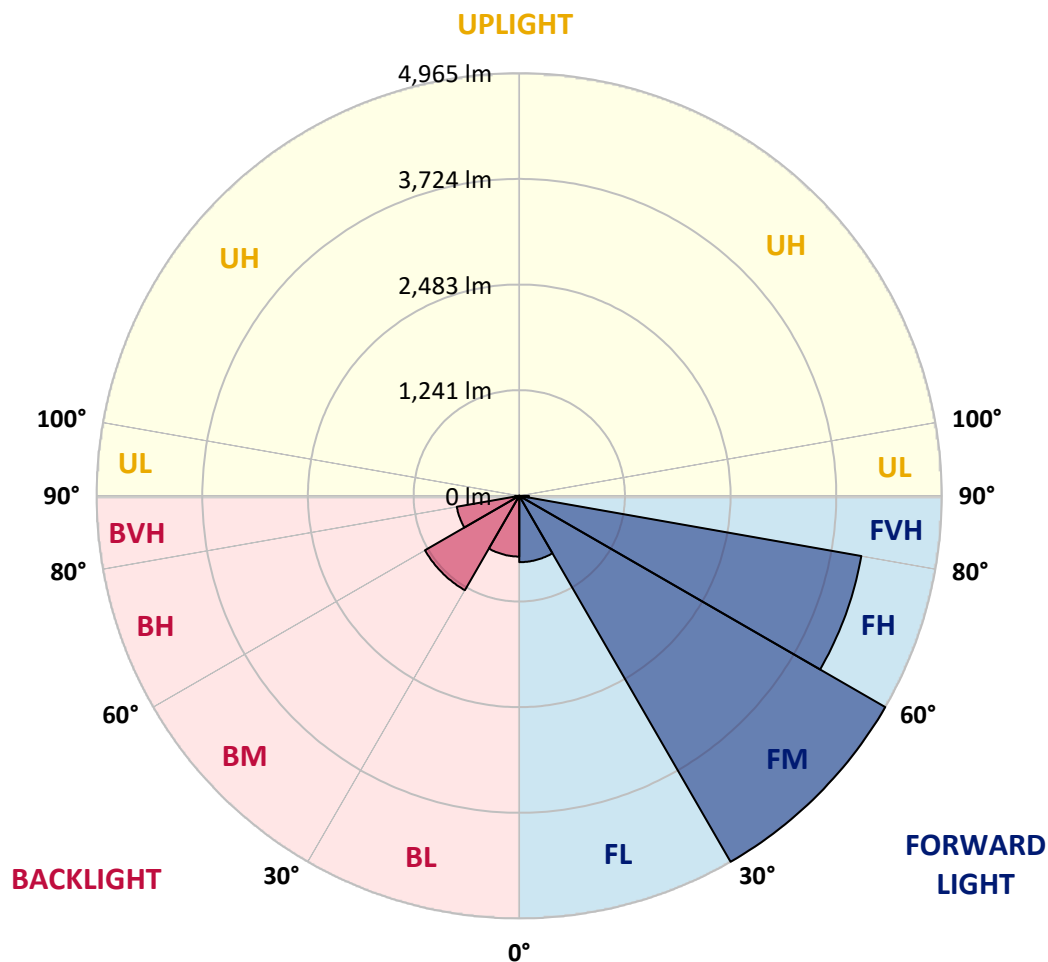
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	779.6	6.1			
FM	(30°-60°)	4965.2	39.0			
FH	(60°-80°)	4081.2	32.1			G2/5000
FVH	(80°-90°)	112.7	0.9			G2/225
BL	(0°-30°)	714.0	5.6	B2/1000		
BM	(30°-60°)	1279.4	10.1	B2/2500		
BH	(60°-80°)	744.7	5.9	B2/1000		G2/1000
BVH	(80°-90°)	48.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1775.3	1775.3	1775.3	1775.3	1775.3	1775.3	1775.3	1775.3	1775.3	1775.3	1775.3
2.5°	1636.5	1635.8	1644.3	1646.9	1662.6	1673.6	1694.5	1716.7	1745.4	1748.5	1766.2
5°	1542.0	1542.0	1551.7	1562.2	1582.4	1604.5	1636.5	1675.0	1724.5	1732.2	1775.9
7.5°	1461.9	1467.1	1475.5	1495.7	1519.2	1551.1	1600.0	1654.8	1720.0	1732.2	1802.7
10°	1397.3	1403.1	1413.6	1429.9	1465.0	1509.4	1573.3	1643.7	1731.0	1750.5	1841.8
12.5°	1377.1	1382.9	1388.9	1401.2	1433.8	1485.9	1562.2	1648.9	1757.7	1777.2	1895.2
15°	1424.0	1431.2	1426.6	1423.4	1440.3	1487.9	1567.4	1667.8	1791.0	1819.0	1961.0
17.5°	1532.2	1534.8	1524.4	1493.7	1491.2	1516.6	1592.1	1693.8	1832.7	1863.2	2027.6
20°	1706.8	1702.3	1680.8	1620.2	1585.7	1580.4	1634.6	1733.0	1875.6	1908.2	2099.2
22.5°	1944.1	1938.9	1895.8	1800.1	1723.1	1672.3	1695.8	1783.8	1923.9	1960.4	2168.9
25°	2240.0	2232.9	2169.6	2039.2	1920.0	1794.2	1779.2	1850.9	1983.2	2017.1	2242.0
27.5°	2585.4	2579.5	2511.1	2339.0	2167.0	1961.0	1882.8	1929.8	2045.1	2083.6	2324.1
30°	2956.9	2973.8	2852.6	2667.6	2449.9	2178.7	2022.3	2026.8	2125.2	2159.8	2423.8
32.5°	3393.6	3422.9	3276.9	3042.3	2745.1	2415.3	2198.3	2162.4	2242.0	2270.6	2549.6
35°	3826.3	3859.5	3738.3	3479.0	3136.8	2694.2	2382.1	2318.2	2397.1	2428.3	2716.4
37.5°	4200.3	4244.7	4182.1	3956.6	3555.8	3030.5	2622.0	2501.3	2588.0	2627.1	2940.6
40°	4495.6	4563.4	4558.8	4418.1	4049.9	3438.5	2926.3	2727.5	2825.2	2867.6	3212.4
42.5°	4735.5	4794.1	4845.0	4837.8	4565.3	3901.9	3284.1	3021.4	3095.7	3144.6	3518.0
45°	4901.0	4963.6	5073.0	5191.0	5061.3	4397.9	3694.0	3370.1	3437.8	3511.5	3882.3
47.5°	5048.9	5120.0	5262.0	5449.1	5482.3	4895.8	4143.0	3776.1	3838.0	3914.3	4248.0
50°	5062.0	5123.3	5343.5	5608.8	5781.5	5374.2	4625.3	4231.7	4289.6	4371.1	4639.7
52.5°	4747.2	4843.6	5228.1	5604.2	5919.0	5774.3	5104.3	4705.5	4770.7	4868.4	5045.0
55°	3684.9	3826.3	4889.9	5429.5	5870.1	6033.0	5559.9	5209.3	5292.7	5395.0	5453.0
57.5°	3173.9	3235.8	3881.7	5111.5	5647.2	6100.2	5944.4	5718.3	5852.5	5964.6	5884.4
60°	2852.6	2904.1	3286.0	4616.8	5354.0	5993.9	6241.6	6192.7	6424.7	6558.4	6325.7
62.5°	2508.5	2557.4	2904.7	3854.9	4978.5	5817.3	6429.3	6630.7	7011.3	7157.3	6741.4
65°	2167.0	2208.7	2541.7	3239.1	4501.5	5640.7	6526.4	7009.4	7554.1	7705.3	7086.8
67.5°	1786.4	1820.9	2135.7	2732.6	3921.4	5398.9	6574.7	7307.1	8026.7	8156.3	7257.6
70°	1289.1	1315.8	1641.0	2161.1	3193.5	4983.1	6555.1	7518.4	8271.8	8375.4	7128.6
72.5°	609.4	633.4	1015.4	1403.1	2255.6	4173.7	6159.4	7350.8	8022.8	7971.3	6338.7
75°	325.2	346.0	583.3	769.7	1191.4	2861.1	5040.4	6332.1	6736.9	6486.6	4684.7
77.5°	220.3	236.6	361.1	462.1	544.2	1358.2	3239.7	4384.1	4218.0	3804.8	2346.2
80°	174.7	191.6	295.9	312.8	263.3	490.8	1338.6	2029.5	1458.0	1165.9	667.4
82.5°	134.3	153.1	249.0	226.8	143.4	201.4	389.7	642.0	373.4	284.1	161.6
85°	82.1	102.3	195.5	144.7	80.8	91.9	132.3	178.6	114.1	95.1	58.0
87.5°	41.7	58.6	99.0	52.8	36.5	21.5	35.2	35.2	29.9	26.0	15.0
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°	1775.3	1775.3	1775.3	1775.3	1775.3	1775.3	1775.3	1775.3	1775.3	1775.3	1775.3
2.5°	1781.9	1794.9	1817.0	1837.8	1854.1	1869.8	1885.5	1893.9	1896.6	1906.9	1912.9
5°	1802.7	1826.8	1869.8	1910.2	1935.6	1951.3	1962.4	1968.8	1970.2	1973.4	1978.7
7.5°	1841.1	1879.5	1939.5	1980.0	1998.9	1997.5	1993.0	1976.7	1970.2	1964.3	1965.6
10°	1895.2	1946.1	2019.7	2047.7	2036.0	2004.7	1964.3	1916.7	1894.6	1873.1	1866.5
12.5°	1962.4	2026.8	2099.2	2097.9	2040.0	1959.7	1865.9	1792.9	1746.6	1713.4	1705.6
15°	2043.8	2118.2	2173.5	2129.2	2002.1	1858.1	1720.6	1625.4	1583.7	1547.2	1543.2
17.5°	2127.9	2207.4	2232.9	2119.4	1906.9	1707.5	1551.7	1476.8	1435.7	1416.2	1422.1
20°	2210.0	2288.8	2268.0	2063.3	1762.3	1536.8	1398.0	1356.9	1348.4	1353.0	1351.1
22.5°	2296.7	2367.0	2275.2	1955.2	1577.8	1362.1	1285.9	1287.2	1306.1	1319.8	1323.0
25°	2385.3	2432.9	2256.2	1798.8	1379.8	1233.7	1214.8	1235.6	1272.8	1299.5	1306.7
27.5°	2470.7	2491.6	2215.2	1605.3	1209.6	1141.8	1145.1	1188.1	1244.1	1281.2	1290.4
30°	2567.1	2543.7	2136.4	1387.5	1091.6	1062.9	1090.3	1140.5	1196.6	1229.8	1237.6
32.5°	2676.0	2588.6	2011.3	1186.1	1008.2	999.8	1044.7	1077.3	1102.1	1111.8	1117.0
35°	2811.6	2651.9	1850.9	1044.7	933.3	953.5	996.5	980.2	970.5	965.2	970.5
37.5°	2987.6	2737.3	1663.2	952.8	872.7	920.2	937.9	887.0	848.6	829.6	834.2
40°	3199.3	2862.4	1482.7	881.8	834.2	891.5	860.9	799.7	750.8	724.1	726.0
42.5°	3434.6	2993.4	1330.9	828.3	812.7	868.1	804.2	731.2	652.4	643.9	652.4
45°	3681.6	3128.3	1227.2	787.3	802.3	847.9	771.6	653.6	597.7	632.2	650.5
47.5°	3928.6	3252.1	1164.6	756.7	797.0	825.1	742.9	610.7	570.9	621.0	644.5
50°	4203.6	3362.9	1136.6	734.5	791.2	816.0	700.0	599.6	542.8	576.2	600.9
52.5°	4476.7	3448.9	1115.7	712.4	782.7	808.8	679.1	586.5	509.0	511.0	524.6
55°	4749.1	3505.0	1093.0	683.1	763.8	793.1	677.1	572.3	483.6	474.5	480.9
57.5°	5039.8	3537.0	1064.9	650.5	731.2	753.4	675.2	561.2	475.8	460.7	462.7
60°	5335.7	3583.8	1028.4	610.7	687.6	705.8	670.7	557.2	471.2	445.8	447.7
62.5°	5600.9	3600.1	984.7	572.9	631.5	658.9	660.8	554.0	458.8	415.1	415.1
65°	5775.0	3529.8	908.5	529.8	570.9	610.7	642.0	542.8	436.6	393.0	393.0
67.5°	5767.8	3329.0	789.2	474.5	512.3	557.2	614.6	524.0	409.9	365.6	367.6
70°	5499.2	2932.7	638.1	409.9	447.7	499.9	579.4	496.0	378.0	335.7	339.6
72.5°	4716.5	2295.4	463.4	334.4	372.8	440.5	533.7	462.1	345.4	308.9	307.0
75°	3369.5	1452.7	314.2	256.8	290.0	373.4	477.0	422.3	315.4	310.3	292.6
77.5°	1721.2	694.1	207.9	187.7	202.0	294.6	400.8	377.3	320.0	256.1	228.1
80°	559.9	256.1	131.0	127.7	134.3	196.2	310.3	309.5	242.4	174.0	153.9
82.5°	178.6	110.2	85.4	82.1	78.8	123.2	216.4	245.1	163.6	110.2	109.5
85°	71.0	65.8	50.2	46.2	33.2	58.0	113.4	163.0	121.9	79.5	81.5
87.5°	26.0	26.0	13.7	9.7	7.2	19.6	30.6	48.9	69.7	41.1	40.4
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)