

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: P962622

Luminaire Tested: **NAV-SB2C-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962622
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-SB2C-830-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

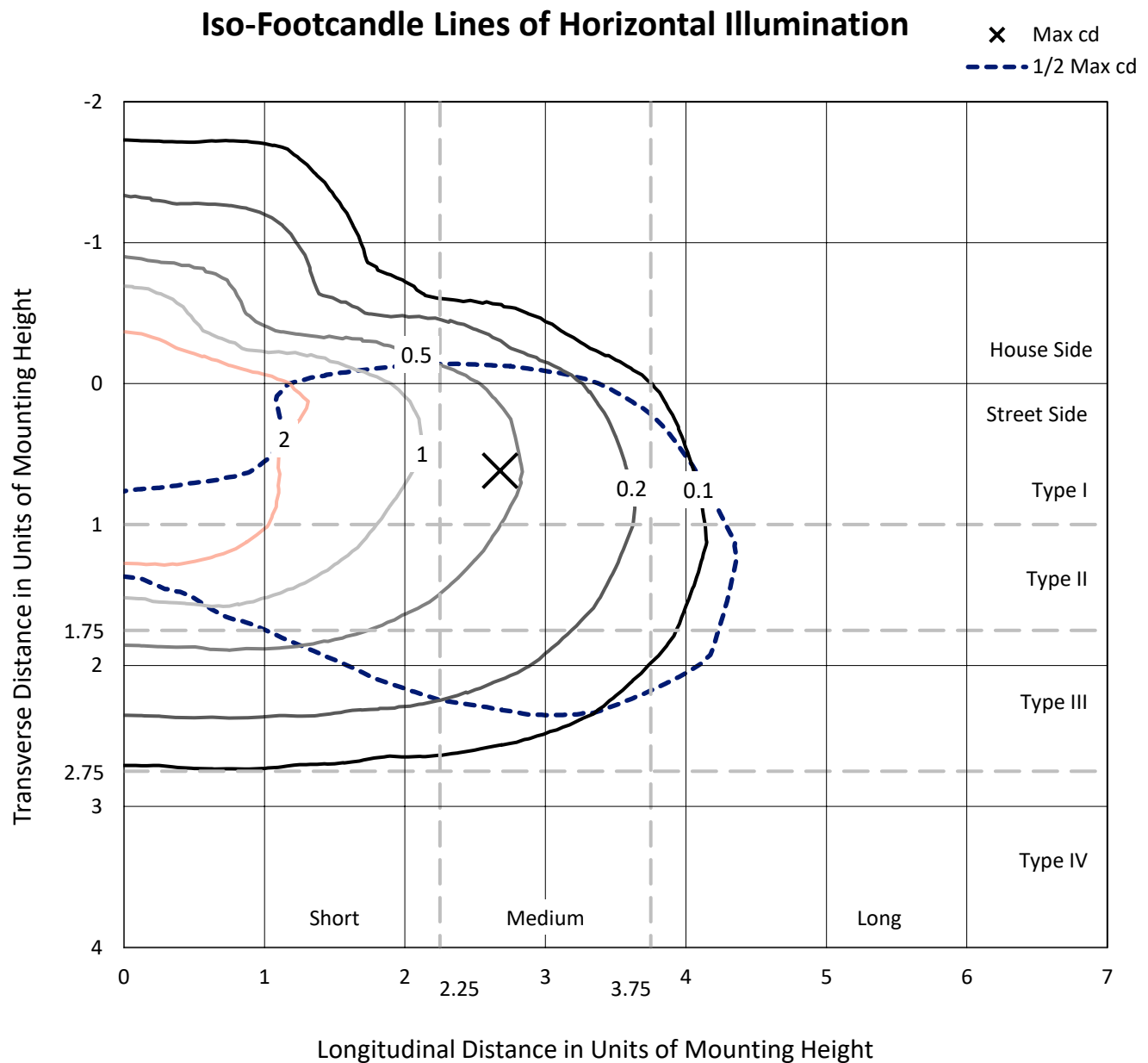
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14160.4 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

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



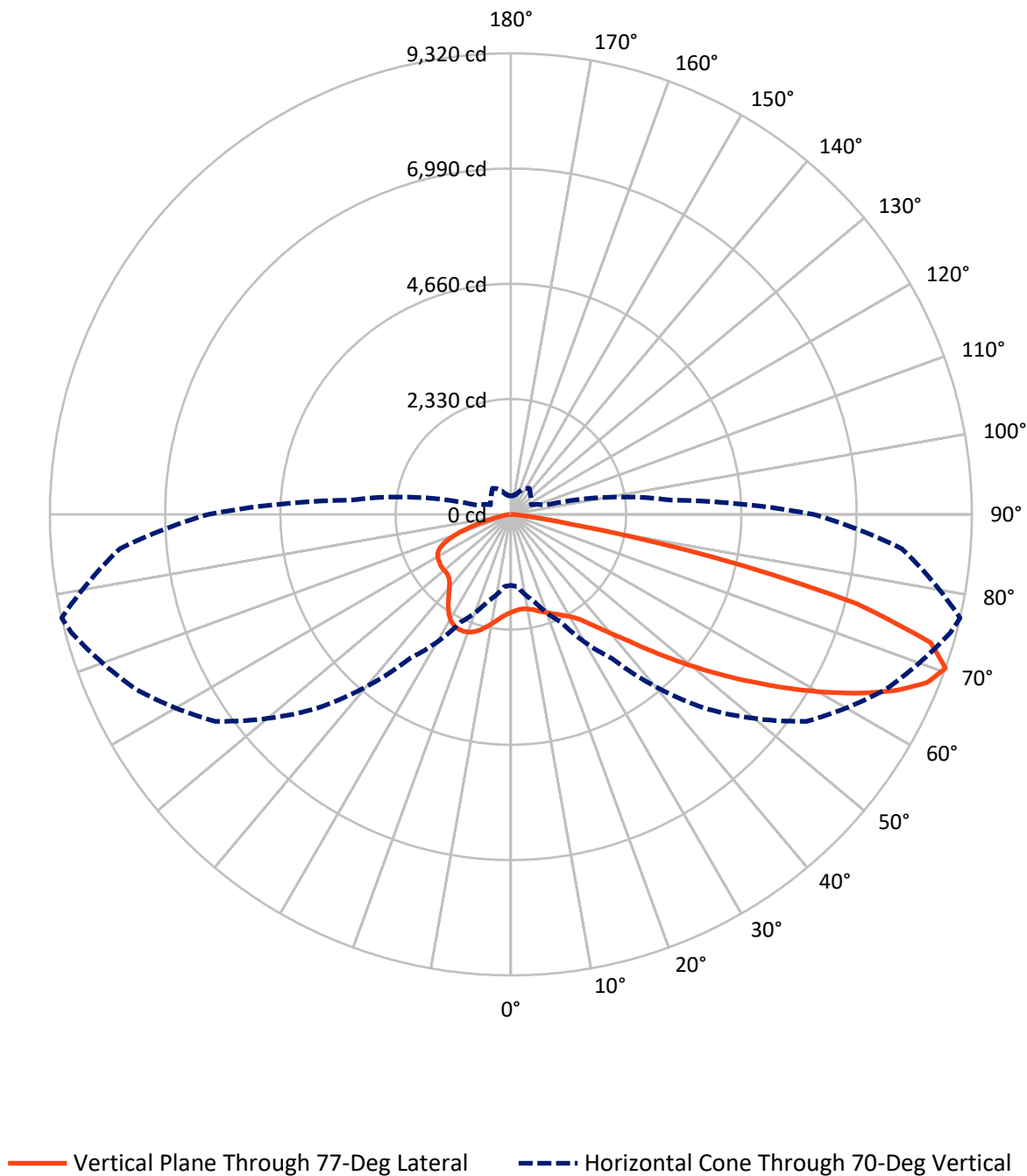
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Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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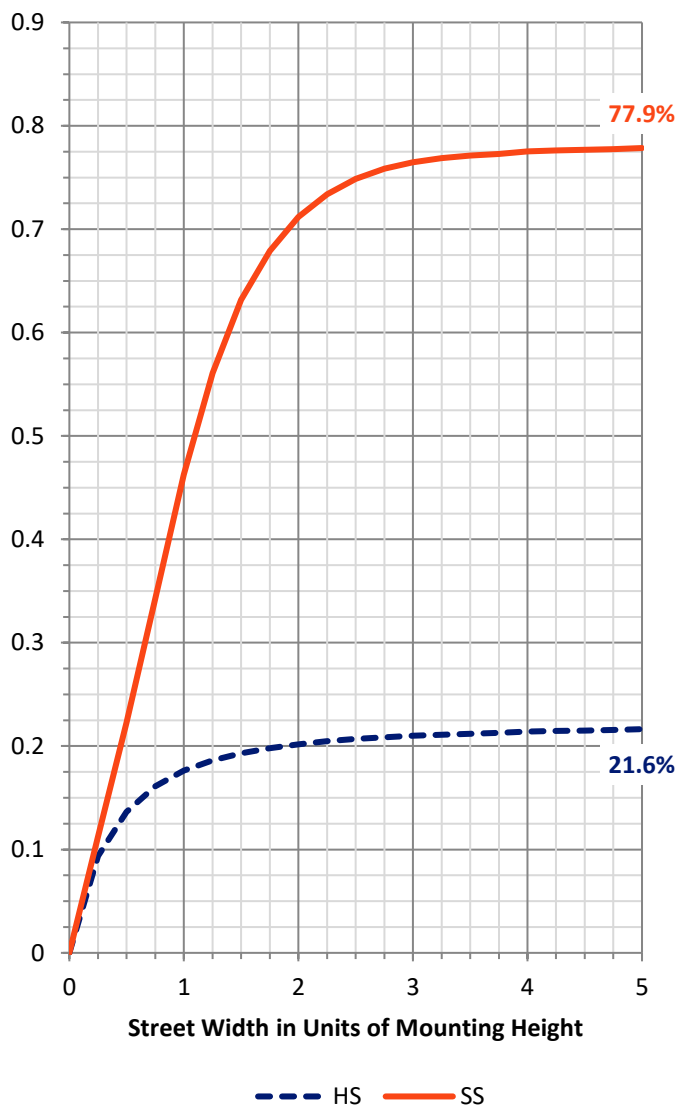
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3100.9	0.0	3100.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	11059.5	0.0	11059.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	14160.4	0.0	14160.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.4	1.3
10°-20°	543.8	3.8
20°-30°	929.9	6.6
30°-40°	1495.4	10.6
40°-50°	2334.7	16.5
50°-60°	3118.6	22.0
60°-70°	3324.0	23.5
70°-80°	2046.2	14.5
80°-90°	179.3	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°	14160.4	100.0
0°-180°	14160.4	100.0

Coefficient of Utilization



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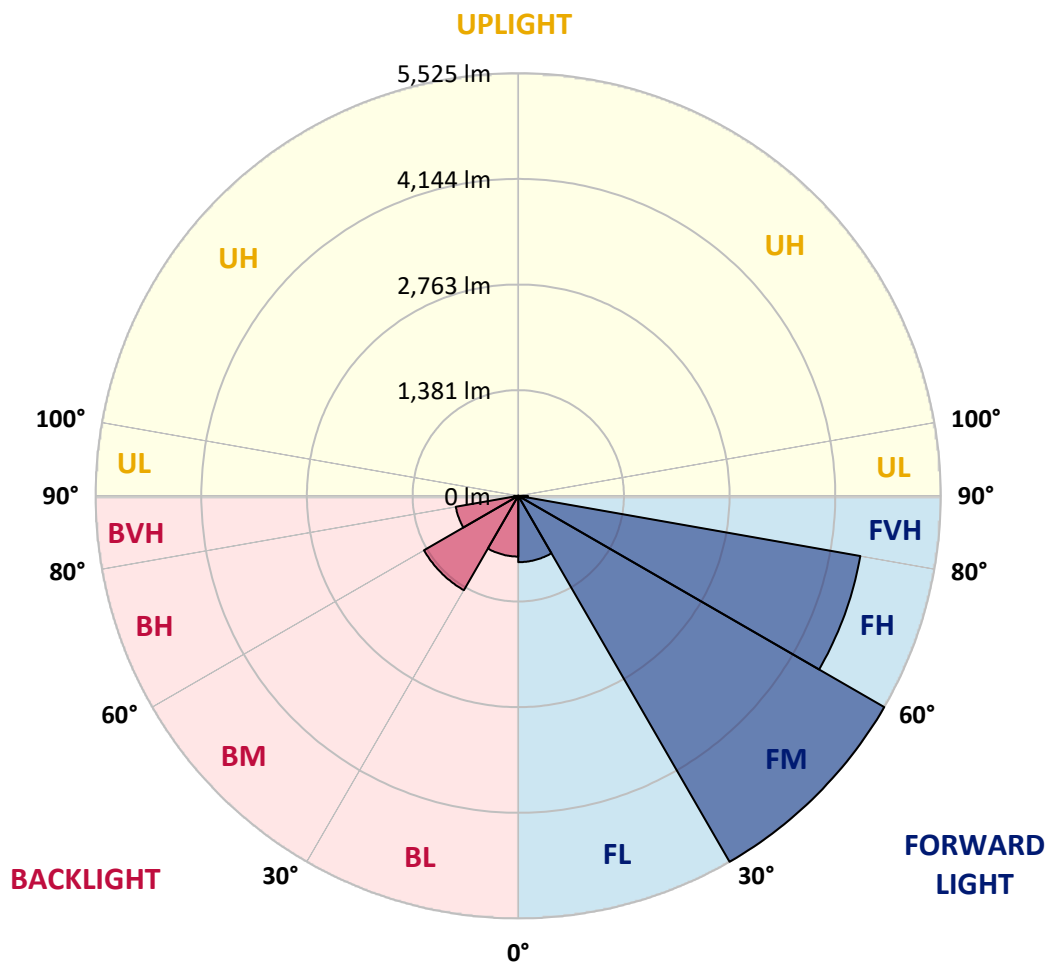
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	867.6	6.1			
FM	(30°-60°)	5525.1	39.0			
FH	(60°-80°)	4541.5	32.1			G2/5000
FVH	(80°-90°)	125.4	0.9			G2/225
BL	(0°-30°)	794.5	5.6	B2/1000		
BM	(30°-60°)	1423.7	10.1	B2/2500		
BH	(60°-80°)	828.7	5.9	B2/1000		G2/1000
BVH	(80°-90°)	53.9	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°	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5
2.5°	1821.0	1820.3	1829.7	1832.6	1850.0	1862.3	1885.6	1910.2	1942.2	1945.8	1965.3
5°	1715.8	1715.8	1726.7	1738.4	1760.8	1785.4	1821.0	1863.9	1918.9	1927.6	1976.2
7.5°	1626.7	1632.5	1641.9	1664.4	1690.5	1726.0	1780.4	1841.3	1913.9	1927.6	2005.9
10°	1554.8	1561.4	1573.0	1591.1	1630.3	1679.6	1750.7	1829.0	1926.2	1947.9	2049.5
12.5°	1532.4	1538.9	1545.5	1559.2	1595.5	1653.5	1738.4	1834.9	1955.9	1977.6	2108.9
15°	1584.6	1592.5	1587.5	1583.9	1602.7	1655.7	1744.1	1855.9	1992.9	2024.1	2182.2
17.5°	1705.0	1707.9	1696.3	1662.2	1659.3	1687.6	1771.7	1884.9	2039.3	2073.4	2256.1
20°	1899.3	1894.3	1870.3	1802.9	1764.4	1758.7	1818.9	1928.3	2087.2	2123.5	2336.0
22.5°	2163.4	2157.5	2109.7	2003.1	1917.5	1860.9	1887.0	1984.9	2140.8	2181.5	2413.6
25°	2492.6	2484.6	2414.3	2269.2	2136.5	1996.5	1979.9	2059.6	2206.8	2244.5	2494.7
27.5°	2877.0	2870.4	2794.3	2602.8	2411.3	2182.2	2095.2	2147.4	2275.7	2318.5	2586.2
30°	3290.4	3309.2	3174.3	2968.3	2726.1	2424.4	2250.4	2255.4	2365.0	2403.4	2697.1
32.5°	3776.2	3808.9	3646.4	3385.4	3054.6	2687.7	2446.2	2406.3	2494.7	2526.6	2837.1
35°	4257.7	4294.8	4159.9	3871.2	3490.5	2998.0	2650.6	2579.6	2667.4	2702.2	3022.7
37.5°	4674.0	4723.4	4653.7	4402.8	3956.8	3372.2	2917.6	2783.4	2879.8	2923.4	3272.2
40°	5002.6	5078.0	5072.9	4916.3	4506.5	3826.2	3256.2	3035.0	3143.9	3190.9	3574.6
42.5°	5269.4	5334.7	5391.3	5383.3	5080.2	4341.9	3654.4	3362.1	3444.8	3499.1	3914.8
45°	5453.6	5523.3	5645.1	5776.4	5632.1	4893.8	4110.6	3750.2	3825.5	3907.5	4320.2
47.5°	5618.3	5697.4	5855.4	6063.6	6100.6	5447.9	4610.2	4201.9	4270.9	4355.6	4727.0
50°	5632.8	5700.9	5946.1	6241.2	6433.4	5980.2	5146.9	4708.8	4773.4	4864.0	5162.8
52.5°	5282.5	5389.9	5817.7	6236.2	6586.4	6425.4	5679.9	5236.1	5308.6	5417.4	5613.9
55°	4100.4	4257.7	5441.3	6041.9	6532.0	6713.3	6186.9	5796.7	5889.5	6003.4	6067.9
57.5°	3531.8	3600.7	4319.5	5687.9	6284.1	6788.1	6614.7	6363.1	6512.4	6637.2	6548.0
60°	3174.3	3231.6	3656.6	5137.5	5957.7	6669.9	6945.4	6891.1	7149.3	7297.9	7039.0
62.5°	2791.4	2845.8	3232.3	4289.7	5539.9	6473.3	7154.3	7378.4	7801.9	7964.4	7501.7
65°	2411.3	2457.7	2828.4	3604.3	5009.1	6276.8	7262.3	7799.7	8406.0	8574.3	7886.0
67.5°	1987.8	2026.2	2376.6	3040.9	4363.6	6007.7	7316.0	8131.2	8931.8	9076.2	8076.1
70°	1434.5	1464.2	1826.1	2404.9	3553.6	5545.0	7294.3	8366.2	9204.5	9319.8	7932.5
72.5°	678.0	704.9	1129.9	1561.4	2510.0	4644.3	6854.1	8179.8	8927.4	8870.1	7053.5
75°	361.9	385.1	649.0	856.5	1325.7	3183.8	5608.9	7046.3	7496.6	7218.2	5212.8
77.5°	245.1	263.2	401.8	514.1	605.6	1511.4	3605.0	4878.6	4693.7	4233.9	2610.8
80°	194.3	213.2	329.2	348.1	292.9	546.1	1489.6	2258.4	1622.4	1297.4	742.6
82.5°	149.4	170.5	277.1	252.4	159.6	224.1	433.7	714.3	415.5	316.2	179.9
85°	91.3	113.9	217.6	161.0	89.9	102.3	147.2	198.7	126.9	105.9	64.6
87.5°	46.4	65.3	110.2	58.7	40.6	23.9	39.2	39.2	33.3	29.0	16.7
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°	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5	1975.5
2.5°	1982.8	1997.2	2021.9	2045.1	2063.2	2080.6	2098.1	2107.5	2110.4	2122.0	2128.5
5°	2005.9	2032.8	2080.6	2125.6	2153.9	2171.4	2183.7	2190.9	2192.4	2196.0	2201.8
7.5°	2048.8	2091.5	2158.2	2203.2	2224.2	2222.8	2217.7	2199.5	2192.4	2185.8	2187.2
10°	2108.9	2165.5	2247.4	2278.7	2265.6	2230.8	2185.8	2132.9	2108.2	2084.2	2077.1
12.5°	2183.7	2255.4	2336.0	2334.4	2270.0	2180.8	2076.3	1995.1	1943.6	1906.6	1897.9
15°	2274.3	2357.0	2418.6	2369.3	2227.8	2067.6	1914.6	1808.7	1762.3	1721.7	1717.3
17.5°	2367.9	2456.3	2484.6	2358.4	2122.0	1900.0	1726.7	1643.4	1597.7	1575.9	1582.4
20°	2459.2	2547.0	2523.8	2296.0	1961.0	1710.1	1555.6	1509.9	1500.5	1505.5	1503.4
22.5°	2555.6	2634.0	2531.8	2175.7	1755.7	1515.7	1430.9	1432.3	1453.3	1468.6	1472.2
25°	2654.3	2707.2	2510.7	2001.6	1535.2	1372.9	1351.8	1375.0	1416.3	1446.1	1454.1
27.5°	2749.4	2772.5	2465.0	1786.3	1346.0	1270.6	1274.2	1322.0	1384.5	1425.8	1435.9
30°	2856.7	2830.5	2377.3	1544.0	1214.7	1182.8	1213.3	1269.2	1331.5	1368.5	1377.2
32.5°	2977.7	2880.6	2238.0	1319.9	1122.0	1112.5	1162.6	1198.8	1226.3	1237.3	1243.0
35°	3128.6	2950.9	2059.6	1162.6	1038.5	1061.0	1108.8	1090.7	1079.8	1074.1	1079.8
37.5°	3324.4	3045.9	1850.7	1060.3	971.1	1024.0	1043.6	987.1	944.2	923.2	928.2
40°	3560.1	3185.2	1649.8	981.2	928.2	992.1	958.1	889.8	835.5	805.8	807.9
42.5°	3821.9	3330.9	1480.9	921.8	904.4	966.0	894.9	813.7	725.9	716.5	725.9
45°	4096.8	3481.1	1365.6	876.1	892.8	943.5	858.6	727.4	665.0	703.5	723.8
47.5°	4371.6	3618.9	1296.0	841.9	886.9	918.1	826.8	679.6	635.3	691.2	717.2
50°	4677.7	3742.2	1264.7	817.3	880.4	907.9	778.9	667.2	604.1	641.1	668.6
52.5°	4981.5	3837.9	1241.6	792.6	870.9	900.0	755.6	652.7	566.4	568.6	583.8
55°	5284.7	3900.2	1216.2	760.0	849.9	882.6	753.5	636.7	538.1	528.0	535.3
57.5°	5608.1	3935.8	1185.0	723.8	813.7	838.3	751.3	624.4	529.4	512.7	514.9
60°	5937.4	3988.0	1144.4	679.6	765.1	785.5	746.3	620.0	524.3	496.1	498.3
62.5°	6232.5	4006.1	1095.8	637.4	702.7	733.2	735.3	616.4	510.6	462.0	462.0
65°	6426.1	3927.8	1011.0	589.6	635.3	679.6	714.3	604.1	485.8	437.3	437.3
67.5°	6418.2	3704.5	878.2	528.0	570.0	620.0	683.9	583.1	456.1	406.8	409.0
70°	6119.5	3263.5	710.0	456.1	498.3	556.3	644.7	551.9	420.7	373.5	377.8
72.5°	5248.4	2554.2	515.7	372.1	414.8	490.3	594.0	514.1	384.4	343.8	341.5
75°	3749.3	1616.5	349.5	285.8	322.8	415.5	530.8	470.0	351.0	345.2	325.6
77.5°	1915.3	772.3	231.3	208.9	224.8	327.8	446.0	419.9	356.1	285.1	253.8
80°	623.0	285.1	145.8	142.2	149.4	218.3	345.2	344.5	269.8	193.6	171.2
82.5°	198.7	122.6	95.0	91.3	87.7	137.0	240.8	272.6	182.0	122.6	121.9
85°	79.0	73.3	55.9	51.5	37.0	64.6	126.2	181.3	135.6	88.5	90.6
87.5°	29.0	29.0	15.3	10.9	8.0	21.7	34.1	54.4	77.6	45.7	45.0
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)