

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: P962464

Luminaire Tested: **NAV-SB2C-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-735-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

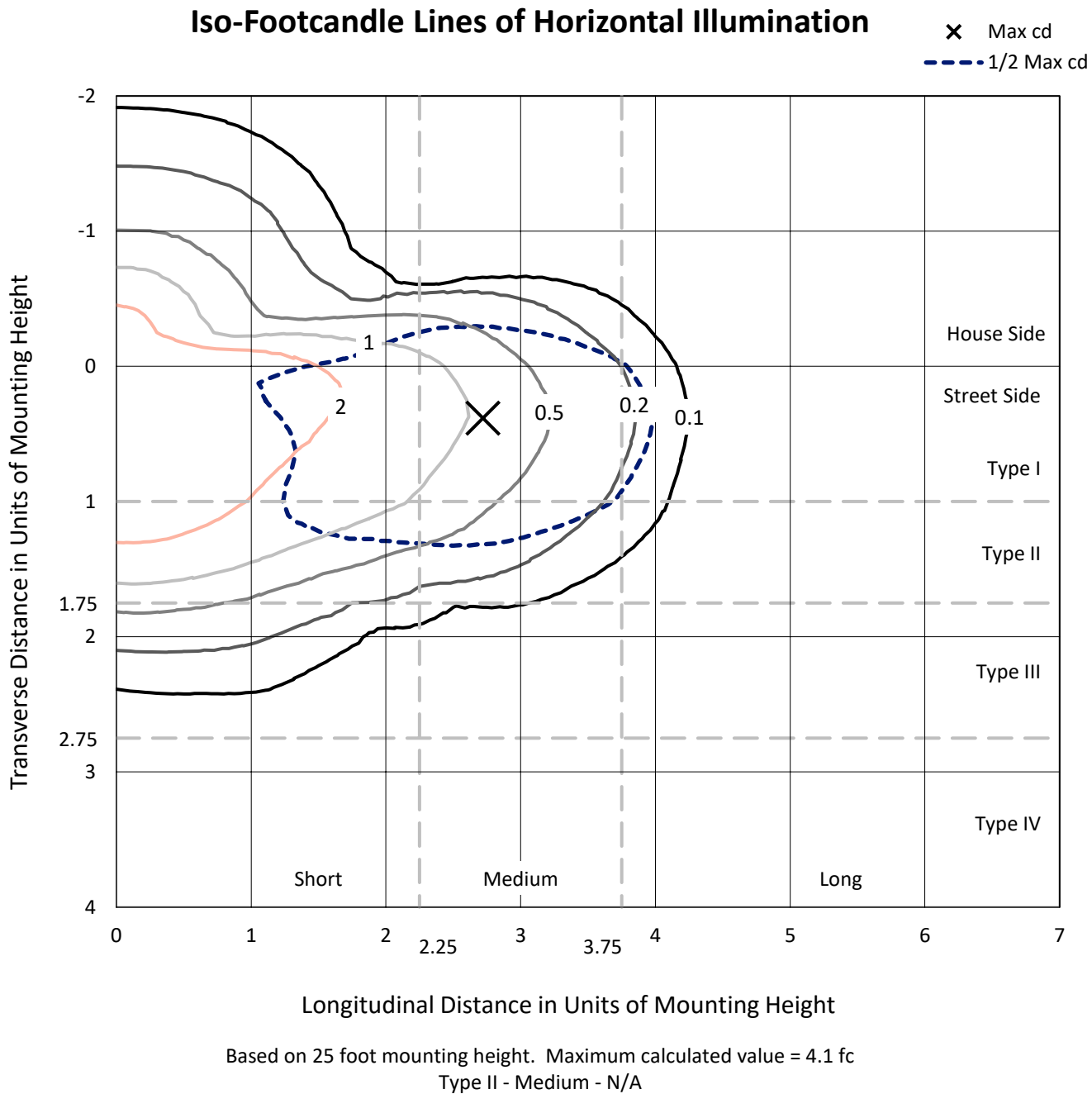
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15211 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
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

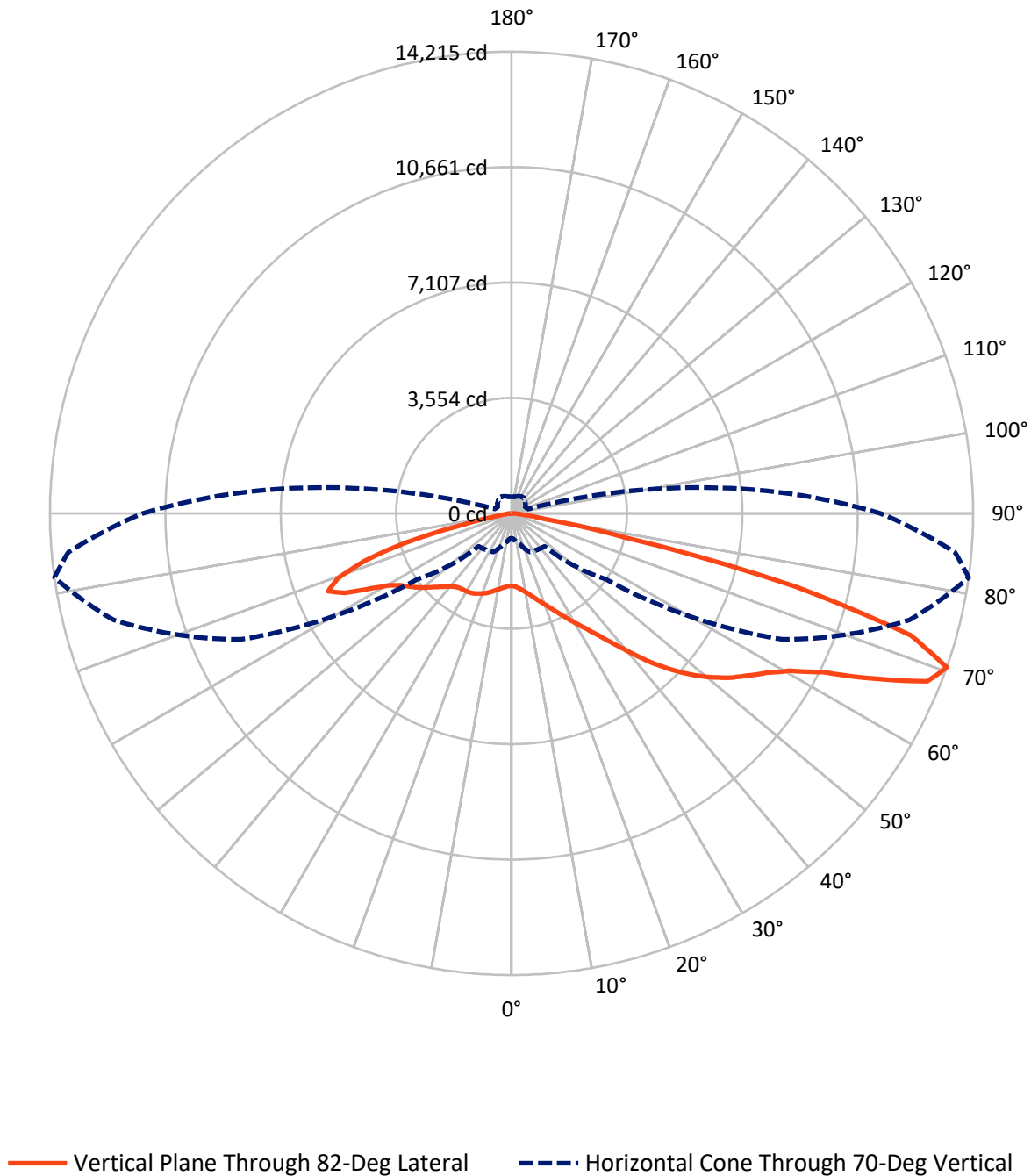


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Luminous Intensity Polar Plot



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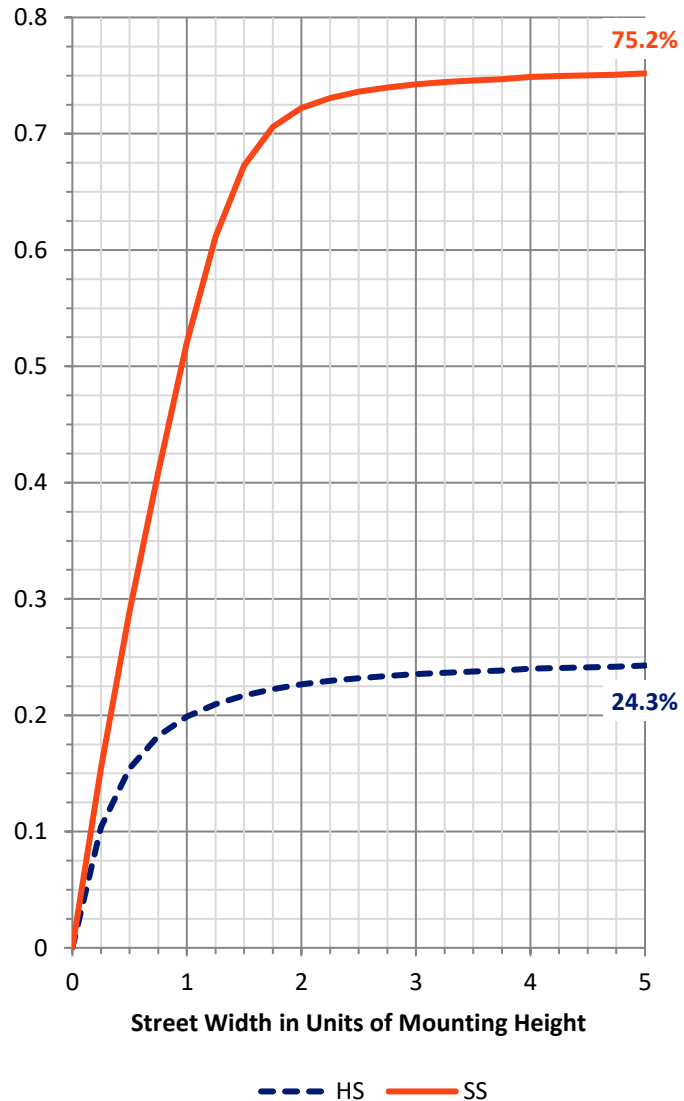
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3749.9	0.0	3749.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	11461.1	0.0	11461.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	15211.0	0.0	15211.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.6	1.4
10°-20°	605.0	4.0
20°-30°	1012.0	6.7
30°-40°	1581.1	10.4
40°-50°	2518.0	16.6
50°-60°	3504.1	23.0
60°-70°	3665.5	24.1
70°-80°	1915.8	12.6
80°-90°	198.9	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°	15211.0	100.0
0°-180°	15211.0	100.0

Coefficient of Utilization



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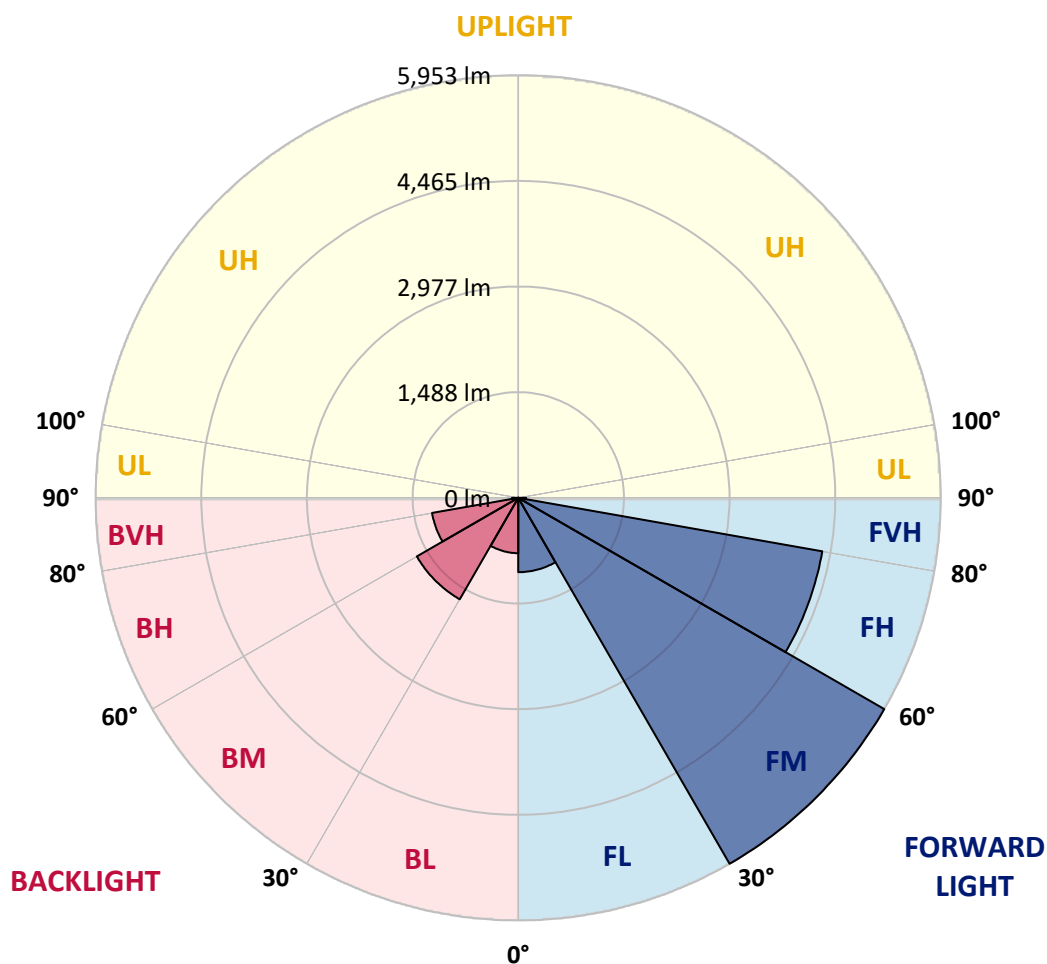
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1047.4	6.9			
FM	(30°-60°)	5953.4	39.1			
FH	(60°-80°)	4348.9	28.6			G2/5000
FVH	(80°-90°)	111.4	0.7			G2/225
BL	(0°-30°)	780.1	5.1	B2/1000		
BM	(30°-60°)	1649.8	10.8	B2/2500		
BH	(60°-80°)	1232.4	8.1	B3/2500		G3/2500
BVH	(80°-90°)	87.6	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2230.1	2230.1	2230.1	2230.1	2230.1	2230.1	2230.1	2230.1	2230.1	2230.1	2230.1
2.5°	2283.4	2296.3	2292.3	2288.2	2288.2	2282.6	2281.8	2273.8	2267.3	2256.7	2254.4
5°	2312.4	2326.1	2324.6	2327.8	2338.2	2340.7	2343.1	2338.2	2325.3	2312.4	2306.8
7.5°	2286.7	2301.9	2306.8	2326.1	2358.4	2387.5	2409.3	2418.2	2406.1	2387.5	2378.6
10°	2199.4	2216.4	2233.4	2279.4	2336.7	2405.3	2463.4	2498.1	2495.7	2477.9	2462.6
12.5°	2022.7	2040.5	2076.8	2166.3	2271.3	2392.4	2500.5	2573.2	2598.2	2585.3	2558.6
15°	1881.5	1896.8	1924.2	2016.3	2152.6	2336.7	2514.2	2655.5	2719.2	2711.9	2679.7
17.5°	1877.4	1883.8	1900.8	1944.4	2049.3	2249.5	2499.7	2736.2	2858.1	2857.3	2816.9
20°	1948.4	1950.9	1960.5	1969.4	2029.2	2183.4	2462.6	2803.2	3013.8	3013.8	2970.2
22.5°	2046.9	2045.3	2055.0	2046.9	2075.9	2177.6	2439.2	2862.1	3187.3	3200.3	3145.4
25°	2194.6	2186.5	2184.1	2165.5	2171.2	2230.1	2465.0	2929.1	3393.2	3419.8	3351.2
27.5°	2391.5	2378.6	2369.8	2327.0	2312.4	2338.2	2544.0	3009.8	3622.5	3668.5	3581.2
30°	2648.2	2624.8	2611.9	2537.6	2485.2	2489.2	2663.6	3117.1	3862.2	3936.4	3825.8
32.5°	2998.5	2962.1	2927.5	2805.6	2709.6	2678.1	2817.7	3265.6	4122.0	4240.7	4098.7
35°	3390.8	3361.7	3324.6	3136.5	2988.8	2916.2	3026.0	3473.1	4426.4	4614.4	4429.5
37.5°	3768.5	3743.5	3761.2	3507.9	3317.3	3211.6	3298.8	3751.6	4801.7	5079.3	4844.5
40°	4159.1	4139.8	4142.2	3900.1	3678.1	3559.5	3629.7	4101.0	5231.9	5632.2	5343.2
42.5°	4583.7	4569.2	4520.8	4306.1	4056.6	3946.1	4010.6	4504.7	5693.6	6261.8	5890.5
45°	5059.1	5050.3	5005.1	4758.9	4473.2	4348.9	4436.0	4950.1	6157.7	6854.2	6440.2
47.5°	5470.0	5477.2	5471.6	5264.2	4968.0	4785.5	4889.7	5415.1	6589.5	7411.2	6967.2
50°	5667.7	5705.7	5761.3	5696.7	5512.8	5327.1	5347.3	5863.8	7001.2	7933.4	7472.5
52.5°	5564.4	5636.3	5788.0	5891.3	5962.3	5923.6	5869.6	6309.4	7388.5	8404.7	7950.3
55°	5179.4	5280.3	5532.1	5781.5	6144.0	6425.6	6496.7	6803.3	7766.3	8819.6	8402.3
57.5°	4478.0	4641.8	4867.8	5372.3	5982.5	6668.5	7227.9	7488.6	8166.6	9262.7	8875.3
60°	3275.4	3494.9	3775.8	4526.4	5417.5	6538.6	7850.3	8541.1	8735.7	9836.6	9491.1
62.5°	2096.1	2231.7	2490.0	3197.1	4221.4	5872.7	8040.7	9856.8	9700.2	10777.7	10414.5
65°	1435.1	1522.2	1758.8	2155.9	2729.0	4371.4	7530.6	10843.1	11232.2	12269.4	11993.2
67.5°	1042.8	1109.0	1310.8	1658.7	1778.2	2586.9	5843.7	10797.9	12721.3	13806.1	13376.7
70°	760.3	807.2	976.6	1310.8	1368.1	1439.1	3540.1	9178.8	12689.0	14214.5	13700.4
72.5°	563.3	595.6	709.5	1017.0	1107.4	971.8	1752.3	6671.0	10903.6	12856.9	12444.4
75°	407.6	431.8	515.8	778.1	886.2	740.2	874.1	3898.5	7605.7	9044.0	9116.7
77.5°	311.6	330.2	385.0	569.8	709.5	555.3	542.4	1793.4	3606.3	3624.1	3827.5
80°	250.2	262.3	292.2	401.2	544.0	415.6	353.5	724.0	1139.7	964.5	1012.2
82.5°	184.0	204.2	247.0	281.7	389.1	286.5	215.5	365.6	433.5	372.9	376.2
85°	105.0	118.7	149.3	201.8	248.6	175.2	123.5	162.3	201.8	165.4	147.7
87.5°	37.1	48.4	52.5	79.1	108.1	72.7	47.7	46.8	66.2	49.2	41.2
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°	2230.1	2230.1	2230.1	2230.1	2230.1	2230.1	2230.1	2230.1	2230.1	2230.1	2230.1
2.5°	2246.3	2242.2	2226.1	2204.3	2181.7	2159.9	2152.6	2137.3	2126.8	2121.1	2127.6
5°	2291.5	2278.6	2240.6	2192.2	2141.3	2086.5	2047.7	2012.2	1986.3	1962.2	1971.8
7.5°	2356.1	2333.4	2268.0	2183.4	2092.9	2001.7	1933.9	1882.2	1847.6	1824.9	1829.8
10°	2431.1	2396.3	2296.3	2169.6	2029.9	1899.2	1819.3	1774.9	1753.1	1741.0	1744.2
12.5°	2517.5	2468.2	2325.3	2138.1	1933.9	1784.6	1729.7	1716.8	1717.6	1718.4	1720.1
15°	2624.0	2555.4	2348.8	2069.5	1808.8	1696.6	1686.9	1707.9	1729.7	1740.1	1739.4
17.5°	2744.2	2647.4	2352.8	1956.5	1686.1	1640.1	1670.7	1716.0	1749.1	1763.6	1766.8
20°	2873.4	2741.1	2323.8	1796.7	1585.3	1594.1	1649.0	1707.1	1743.4	1762.0	1766.8
22.5°	3021.1	2841.1	2254.4	1628.8	1502.9	1544.1	1608.6	1665.1	1703.0	1721.6	1726.5
25°	3189.8	2953.3	2145.3	1487.6	1431.8	1487.6	1552.2	1598.9	1629.6	1646.6	1651.4
27.5°	3377.1	3070.4	2000.1	1375.3	1369.7	1429.5	1482.7	1519.0	1535.1	1548.1	1553.0
30°	3565.2	3176.9	1824.1	1290.6	1315.6	1372.2	1410.1	1426.2	1431.1	1433.5	1439.1
32.5°	3768.5	3268.9	1639.3	1220.4	1263.9	1316.4	1339.1	1346.3	1323.7	1308.4	1313.2
35°	4014.7	3367.3	1458.5	1164.7	1213.1	1258.3	1265.6	1259.1	1232.5	1201.0	1202.6
37.5°	4319.0	3490.0	1314.0	1125.1	1165.5	1195.4	1186.5	1184.9	1187.3	1150.2	1152.6
40°	4691.9	3649.9	1208.3	1094.5	1126.8	1133.2	1108.2	1122.0	1134.1	1077.5	1079.1
42.5°	5105.9	3842.8	1141.3	1073.5	1094.5	1079.1	1040.4	1055.8	1054.1	979.9	979.1
45°	5528.1	4052.6	1117.9	1058.1	1064.6	1033.9	991.2	995.2	961.3	894.3	896.8
47.5°	5947.8	4277.8	1132.4	1045.3	1027.5	992.8	959.7	942.0	891.9	841.8	841.8
50°	6359.4	4514.3	1185.7	1019.5	976.6	956.4	932.2	900.8	847.5	804.7	801.4
52.5°	6741.2	4752.4	1245.4	976.6	912.9	925.0	909.7	873.3	820.8	777.3	778.1
55°	7102.8	4990.5	1268.8	917.7	853.1	897.5	888.7	821.6	758.7	723.2	720.0
57.5°	7496.7	5277.1	1243.0	842.7	804.7	866.0	832.2	757.9	721.6	694.9	692.5
60°	8042.4	5726.7	1187.3	749.8	758.7	819.3	761.2	730.4	691.0	661.0	659.4
62.5°	8948.8	6565.2	1097.7	657.8	704.6	749.8	727.2	696.6	656.2	627.2	627.2
65°	10288.5	7730.8	929.1	586.0	644.1	682.0	691.0	660.2	618.3	587.6	589.2
67.5°	11418.6	8462.0	703.0	526.2	582.0	627.2	652.2	622.3	577.9	548.1	548.9
70°	11356.4	7930.9	536.8	467.3	527.1	573.1	605.4	582.0	534.3	506.0	508.5
72.5°	10086.8	6634.7	434.2	407.6	471.4	516.6	555.3	537.5	489.1	461.7	461.7
75°	7410.3	4709.7	347.1	347.1	402.0	457.7	500.4	489.1	444.7	425.4	419.7
77.5°	3123.6	1975.9	272.0	288.1	334.2	393.1	446.4	450.4	411.6	435.8	395.5
80°	830.6	544.8	207.5	226.8	262.3	324.5	388.3	386.6	344.6	322.1	299.4
82.5°	316.4	214.7	147.7	159.8	189.7	248.6	307.5	317.2	275.2	238.1	238.1
85°	121.9	92.0	91.2	96.0	110.6	164.6	232.5	240.6	207.5	176.0	181.6
87.5°	31.5	27.5	33.9	32.3	50.8	87.9	133.1	138.1	126.7	73.5	105.0
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)