

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: P962467

Luminaire Tested: **NAV-SB2C-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962467
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-735-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15759.4 lumens
Efficiency: N/A
Efficacy: 156.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - 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

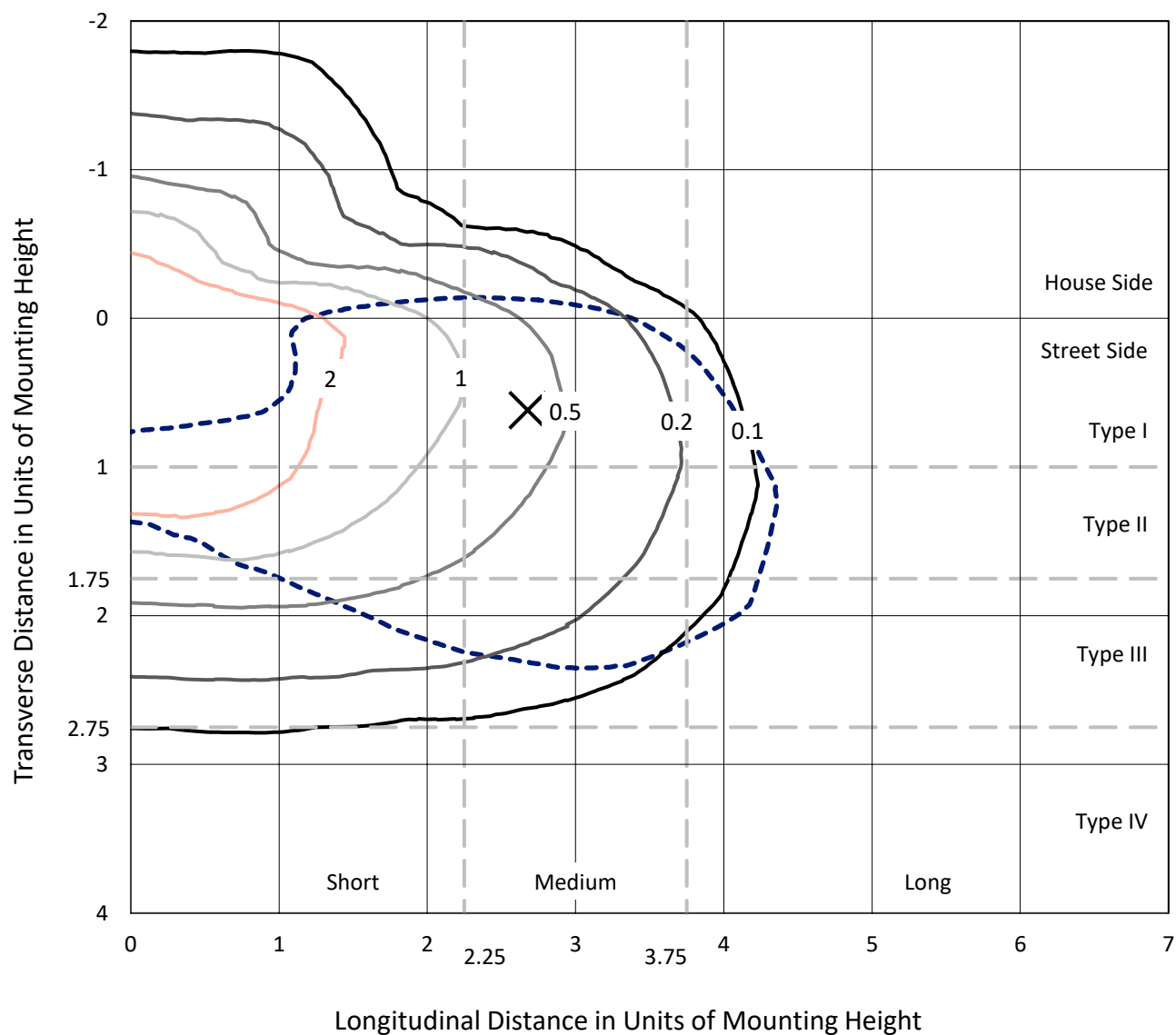


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

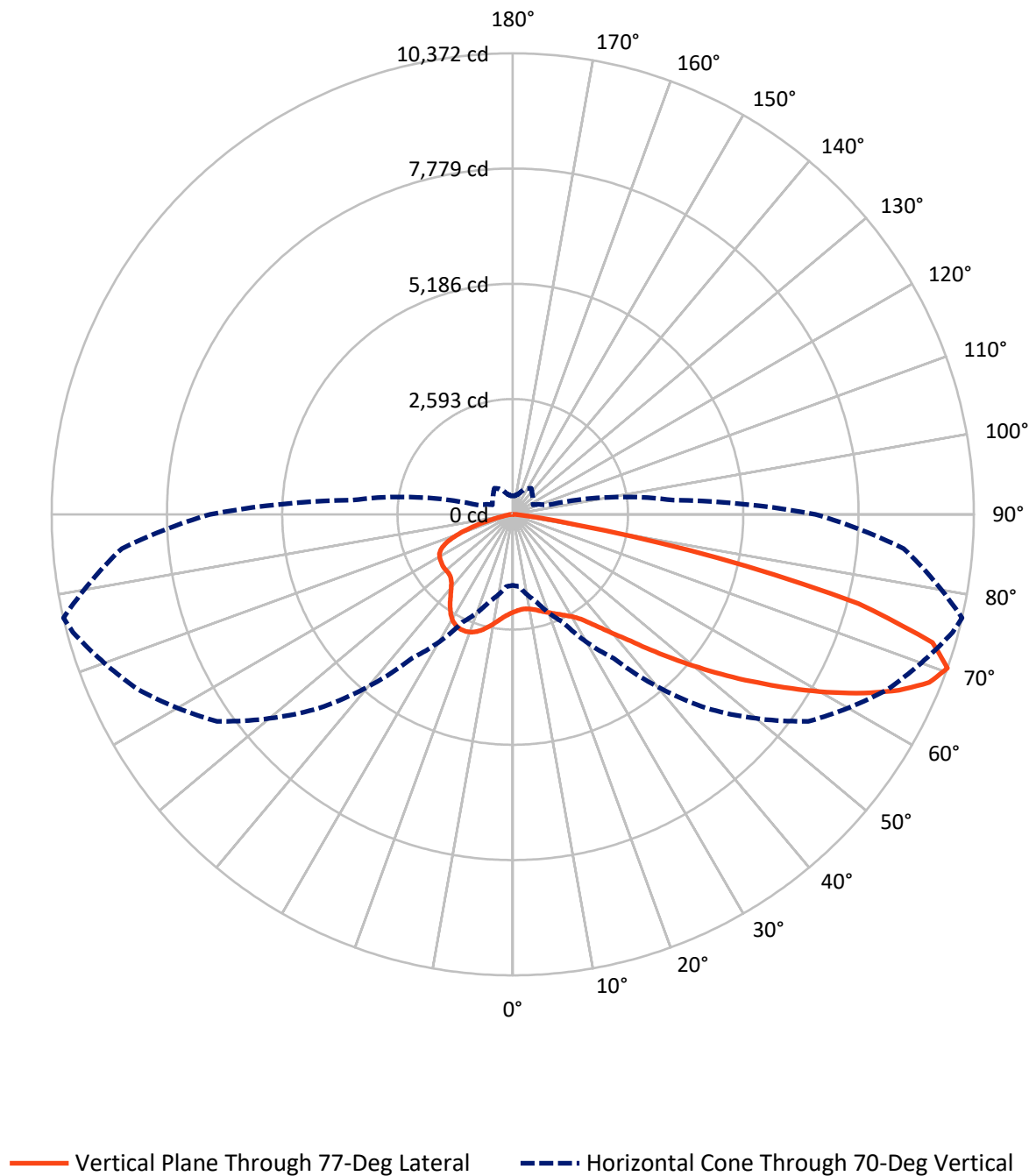


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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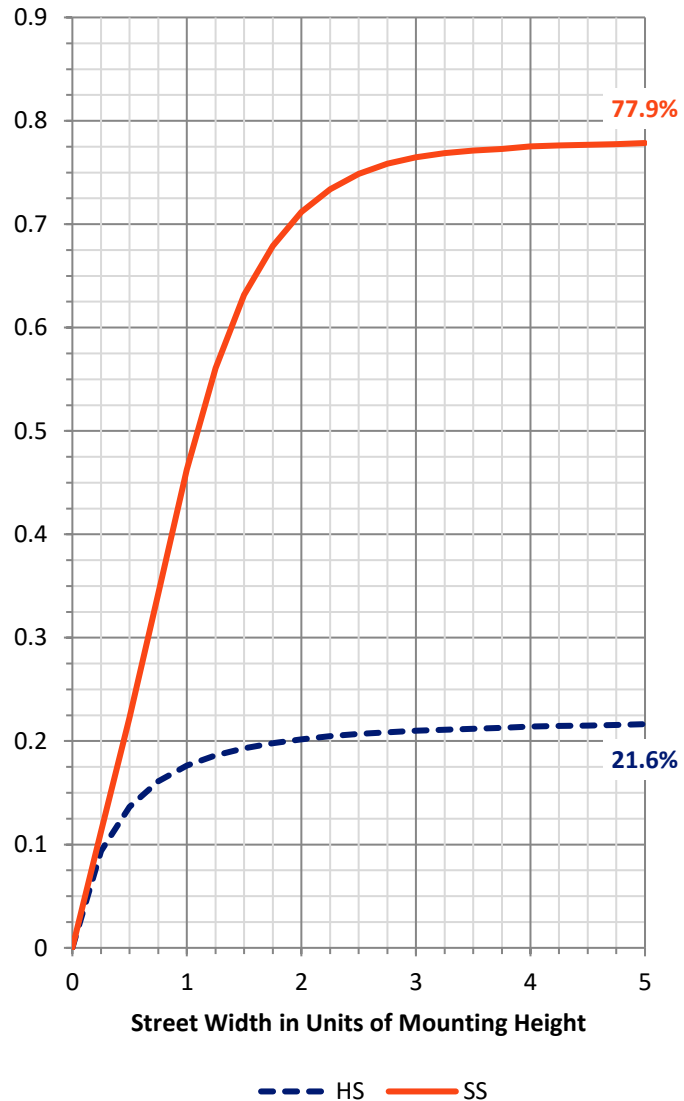
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3451.1	0.0	3451.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	12308.3	0.0	12308.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	15759.4	0.0	15759.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	1.3
10°-20°	605.2	3.8
20°-30°	1034.9	6.6
30°-40°	1664.3	10.6
40°-50°	2598.4	16.5
50°-60°	3470.8	22.0
60°-70°	3699.3	23.5
70°-80°	2277.3	14.5
80°-90°	199.5	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°	15759.4	100.0
0°-180°	15759.4	100.0

Coefficient of Utilization



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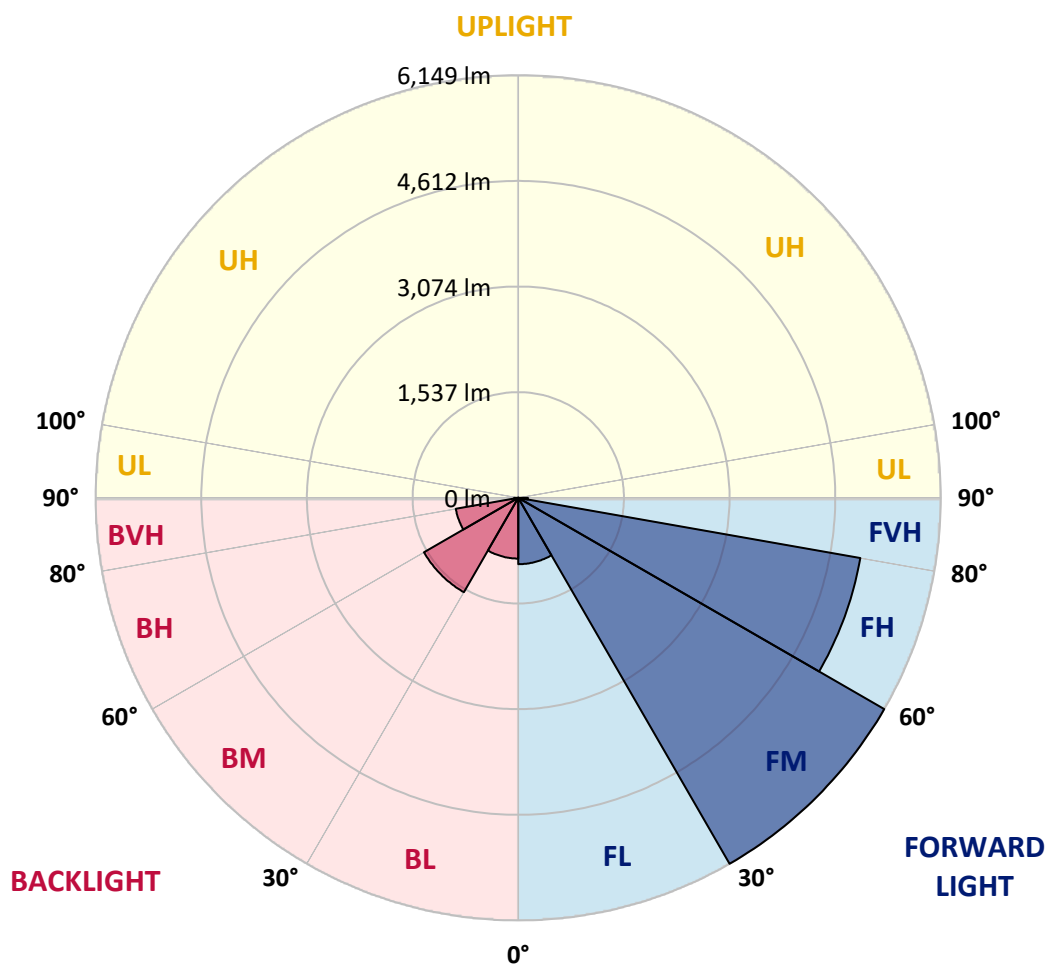
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	965.5	6.1			
FM	(30°-60°)	6149.0	39.0			
FH	(60°-80°)	5054.3	32.1			G3/7500
FVH	(80°-90°)	139.5	0.9			G2/225
BL	(0°-30°)	884.3	5.6	B2/1000		
BM	(30°-60°)	1584.5	10.1	B2/2500		
BH	(60°-80°)	922.3	5.9	B2/1000		G2/1000
BVH	(80°-90°)	60.0	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2198.6	2198.6	2198.6	2198.6	2198.6	2198.6	2198.6	2198.6	2198.6	2198.6	2198.6
2.5°	2026.6	2025.8	2036.4	2039.5	2058.9	2072.7	2098.5	2126.0	2161.4	2165.5	2187.2
5°	1909.7	1909.7	1921.8	1934.7	1959.7	1987.1	2026.6	2074.3	2135.6	2145.3	2199.3
7.5°	1810.4	1816.8	1827.3	1852.3	1881.4	1921.0	1981.4	2049.3	2130.0	2145.3	2232.4
10°	1730.4	1737.7	1750.6	1770.8	1814.4	1869.3	1948.4	2035.5	2143.7	2167.9	2280.9
12.5°	1705.4	1712.7	1720.0	1735.3	1775.6	1840.2	1934.7	2042.0	2176.8	2201.0	2347.0
15°	1763.5	1772.4	1766.8	1762.7	1783.7	1842.6	1941.1	2065.4	2218.0	2252.6	2428.6
17.5°	1897.5	1900.8	1887.8	1849.9	1846.6	1878.1	1971.8	2097.7	2269.6	2307.6	2510.9
20°	2113.9	2108.2	2081.6	2006.4	1963.7	1957.2	2024.3	2146.1	2322.9	2363.2	2599.7
22.5°	2407.6	2401.2	2347.9	2229.3	2134.0	2071.0	2100.1	2209.1	2382.6	2427.8	2686.1
25°	2774.1	2765.1	2686.8	2525.5	2377.8	2222.0	2203.4	2292.2	2456.0	2498.0	2776.5
27.5°	3201.8	3194.5	3109.8	2896.8	2683.7	2428.6	2331.8	2389.9	2532.7	2580.3	2878.2
30°	3661.9	3682.8	3532.8	3303.5	3033.9	2698.2	2504.5	2510.1	2632.0	2674.7	3001.6
32.5°	4202.6	4239.0	4058.2	3767.6	3399.5	2991.2	2722.4	2678.0	2776.5	2812.0	3157.4
35°	4738.6	4779.7	4629.6	4308.4	3884.6	3336.6	2950.0	2870.9	2968.6	3007.4	3364.0
37.5°	5201.9	5256.7	5179.2	4900.0	4403.6	3753.0	3247.0	3097.7	3205.1	3253.5	3641.7
40°	5567.5	5651.4	5645.8	5471.4	5015.4	4258.4	3623.9	3377.8	3498.8	3551.3	3978.2
42.5°	5864.4	5937.1	6000.0	5991.2	5653.8	4832.2	4067.0	3741.8	3833.8	3894.3	4356.8
45°	6069.5	6146.9	6282.5	6428.7	6268.1	5446.4	4574.7	4173.6	4257.5	4348.8	4808.0
47.5°	6252.7	6340.6	6516.6	6748.3	6789.4	6063.1	5130.8	4676.5	4753.1	4847.5	5260.8
50°	6268.9	6344.7	6617.5	6946.0	7159.9	6655.4	5728.1	5240.6	5312.4	5413.3	5745.8
52.5°	5879.0	5998.5	6474.6	6940.4	7330.2	7151.0	6321.3	5827.3	5908.1	6029.2	6247.9
55°	4563.4	4738.6	6055.8	6724.1	7269.7	7471.4	6885.4	6451.2	6554.6	6681.3	6753.1
57.5°	3930.7	4007.3	4807.1	6330.2	6993.7	7554.6	7361.7	7081.6	7247.9	7386.7	7287.4
60°	3532.8	3596.5	4069.5	5717.6	6630.4	7423.0	7729.7	7669.2	7956.6	8122.0	7833.9
62.5°	3106.6	3167.1	3597.3	4774.0	6165.6	7204.3	7962.2	8211.6	8682.9	8863.7	8348.8
65°	2683.7	2735.3	3147.8	4011.3	5574.8	6985.6	8082.4	8680.5	9355.3	9542.5	8776.6
67.5°	2212.3	2255.1	2644.9	3384.2	4856.4	6686.2	8142.2	9049.3	9940.4	10101.1	8988.0
70°	1596.4	1629.5	2032.3	2676.4	3954.9	6171.2	8117.9	9310.9	10243.8	10372.2	8828.2
72.5°	754.6	784.5	1257.5	1737.7	2793.4	5168.8	7628.0	9103.4	9935.5	9871.8	7850.0
75°	402.7	428.6	722.3	953.2	1475.4	3543.2	6242.2	7841.9	8343.1	8033.2	5801.5
77.5°	272.9	292.9	447.1	572.3	673.9	1682.0	4012.2	5429.4	5223.6	4711.9	2905.6
80°	216.3	237.3	366.4	387.4	326.1	607.7	1657.8	2513.3	1805.5	1443.9	826.5
82.5°	166.3	189.6	308.3	280.8	177.5	249.4	482.7	795.0	462.5	351.9	200.2
85°	101.7	126.7	242.1	179.2	100.0	113.8	163.8	221.2	141.2	117.9	71.9
87.5°	51.7	72.7	122.7	65.4	45.2	26.6	43.6	43.6	37.1	32.3	18.6
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°	2198.6	2198.6	2198.6	2198.6	2198.6	2198.6	2198.6	2198.6	2198.6	2198.6	2198.6
2.5°	2206.6	2222.8	2250.2	2276.0	2296.2	2315.6	2335.0	2345.5	2348.7	2361.6	2368.9
5°	2232.4	2262.4	2315.6	2365.7	2397.2	2416.5	2430.2	2438.3	2439.9	2443.9	2450.4
7.5°	2280.1	2327.7	2402.0	2452.0	2475.4	2473.8	2468.2	2448.0	2439.9	2432.6	2434.3
10°	2347.0	2410.1	2501.2	2536.0	2521.4	2482.7	2432.6	2373.7	2346.3	2319.7	2311.6
12.5°	2430.2	2510.1	2599.7	2598.1	2526.2	2427.0	2310.8	2220.4	2163.1	2121.9	2112.2
15°	2531.1	2623.1	2691.8	2636.8	2479.5	2301.1	2130.8	2012.9	1961.2	1916.1	1911.2
17.5°	2635.3	2733.7	2765.1	2624.7	2361.6	2114.7	1921.8	1828.9	1778.1	1753.9	1761.2
20°	2737.0	2834.5	2808.7	2555.3	2182.4	1903.2	1731.2	1680.4	1669.9	1675.6	1673.1
22.5°	2844.3	2931.4	2817.6	2421.4	1954.1	1686.8	1592.4	1594.1	1617.4	1634.4	1638.5
25°	2954.0	3013.0	2794.3	2227.6	1708.7	1527.9	1504.5	1530.3	1576.2	1609.4	1618.3
27.5°	3059.7	3085.6	2743.4	1987.9	1498.0	1414.1	1418.1	1471.4	1540.8	1586.8	1598.1
30°	3179.2	3150.1	2645.7	1718.3	1351.9	1316.4	1350.3	1412.4	1481.8	1523.0	1532.7
32.5°	3314.0	3205.9	2490.8	1468.9	1248.7	1238.1	1293.8	1334.1	1364.8	1377.0	1383.4
35°	3481.9	3284.1	2292.2	1293.8	1155.8	1180.8	1234.1	1213.9	1201.8	1195.4	1201.8
37.5°	3699.8	3389.9	2059.7	1180.0	1080.8	1139.6	1161.4	1098.5	1050.8	1027.5	1033.1
40°	3962.1	3544.9	1836.2	1092.0	1033.1	1104.1	1066.2	990.4	929.8	896.7	899.1
42.5°	4253.4	3707.1	1648.1	1025.8	1006.4	1075.1	996.0	905.6	807.9	797.4	807.9
45°	4559.4	3874.2	1519.8	975.0	993.5	1050.0	955.6	809.5	740.2	782.9	805.5
47.5°	4865.3	4027.5	1442.3	937.1	987.1	1021.8	920.1	756.2	707.0	769.2	798.3
50°	5205.9	4164.7	1407.6	909.6	979.8	1010.5	866.8	742.5	672.3	713.5	744.2
52.5°	5544.0	4271.3	1381.8	882.2	969.3	1001.6	841.0	726.4	630.4	632.7	649.7
55°	5881.4	4340.7	1353.5	845.8	946.0	982.3	838.6	708.7	598.9	587.5	595.6
57.5°	6241.4	4380.2	1318.9	805.5	905.6	933.1	836.2	694.9	589.2	570.6	573.1
60°	6607.9	4438.4	1273.7	756.2	851.5	874.1	830.6	690.1	583.5	552.1	554.5
62.5°	6936.4	4458.5	1219.5	709.4	782.1	816.0	818.5	686.0	568.2	514.1	514.1
65°	7151.8	4371.3	1125.1	656.2	707.0	756.2	795.0	672.3	540.8	486.7	486.7
67.5°	7142.9	4122.8	977.4	587.5	634.4	690.1	761.1	648.9	507.7	452.7	455.2
70°	6810.4	3632.0	790.2	507.7	554.5	619.1	717.5	614.2	468.1	415.6	420.5
72.5°	5841.1	2842.6	573.9	414.1	461.7	545.6	661.0	572.3	427.7	382.5	380.2
75°	4172.8	1799.1	389.0	318.0	359.2	462.5	590.8	523.1	390.6	384.2	362.4
77.5°	2131.6	859.6	257.5	232.5	250.2	364.8	496.4	467.3	396.3	317.2	282.5
80°	693.3	317.2	162.3	158.2	166.3	242.9	384.2	383.3	300.2	215.5	190.4
82.5°	221.2	136.4	105.8	101.7	97.7	152.5	267.9	303.5	202.5	136.4	135.6
85°	87.9	81.5	62.1	57.3	41.2	71.9	140.4	201.8	150.9	98.5	100.9
87.5°	32.3	32.3	16.9	12.1	8.9	24.2	37.9	60.6	86.4	50.8	50.0
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)