

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: P964758

Luminaire Tested: **NAV-SB3C-835-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964758
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-SB3C-835-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21167.3 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

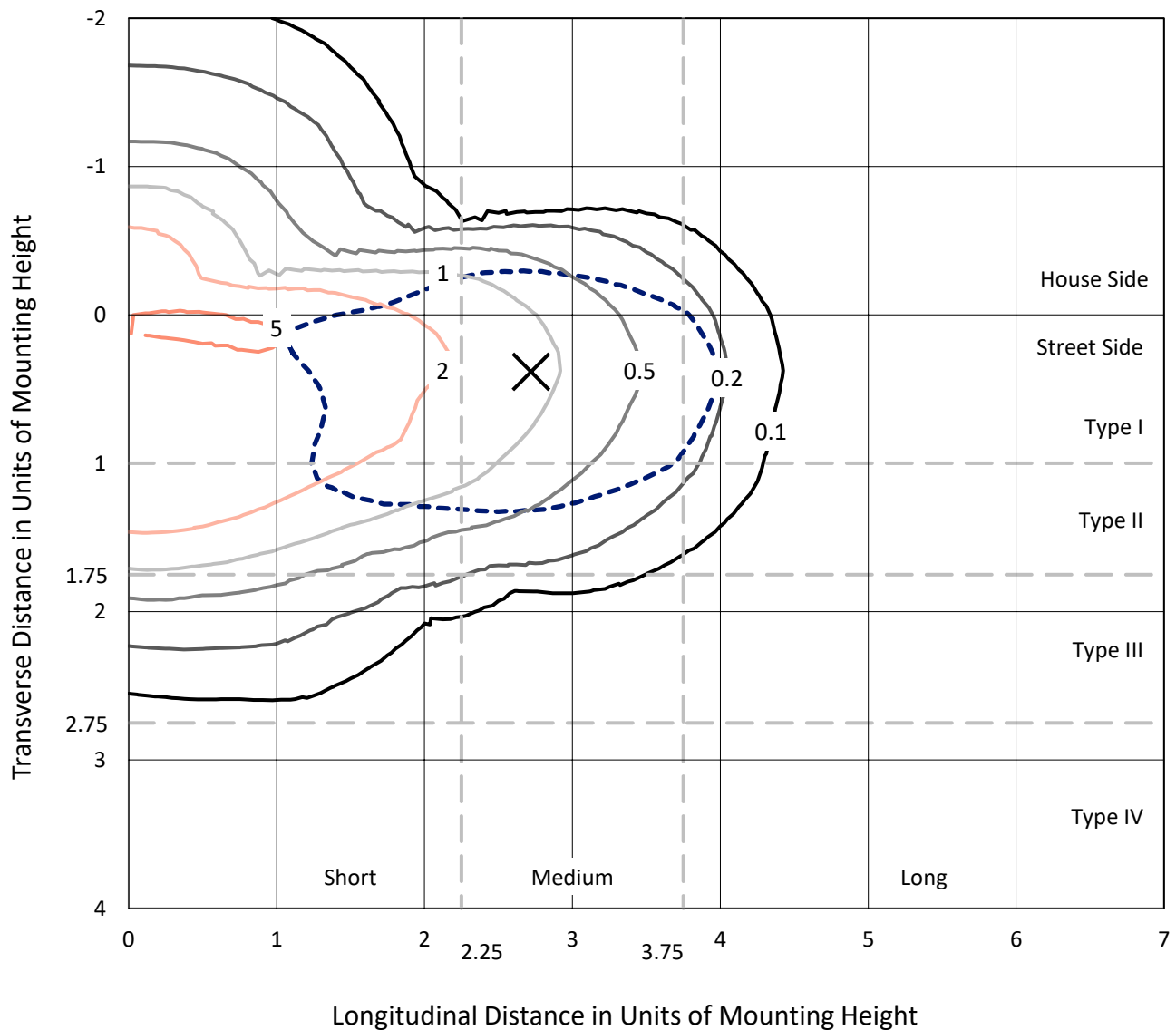
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

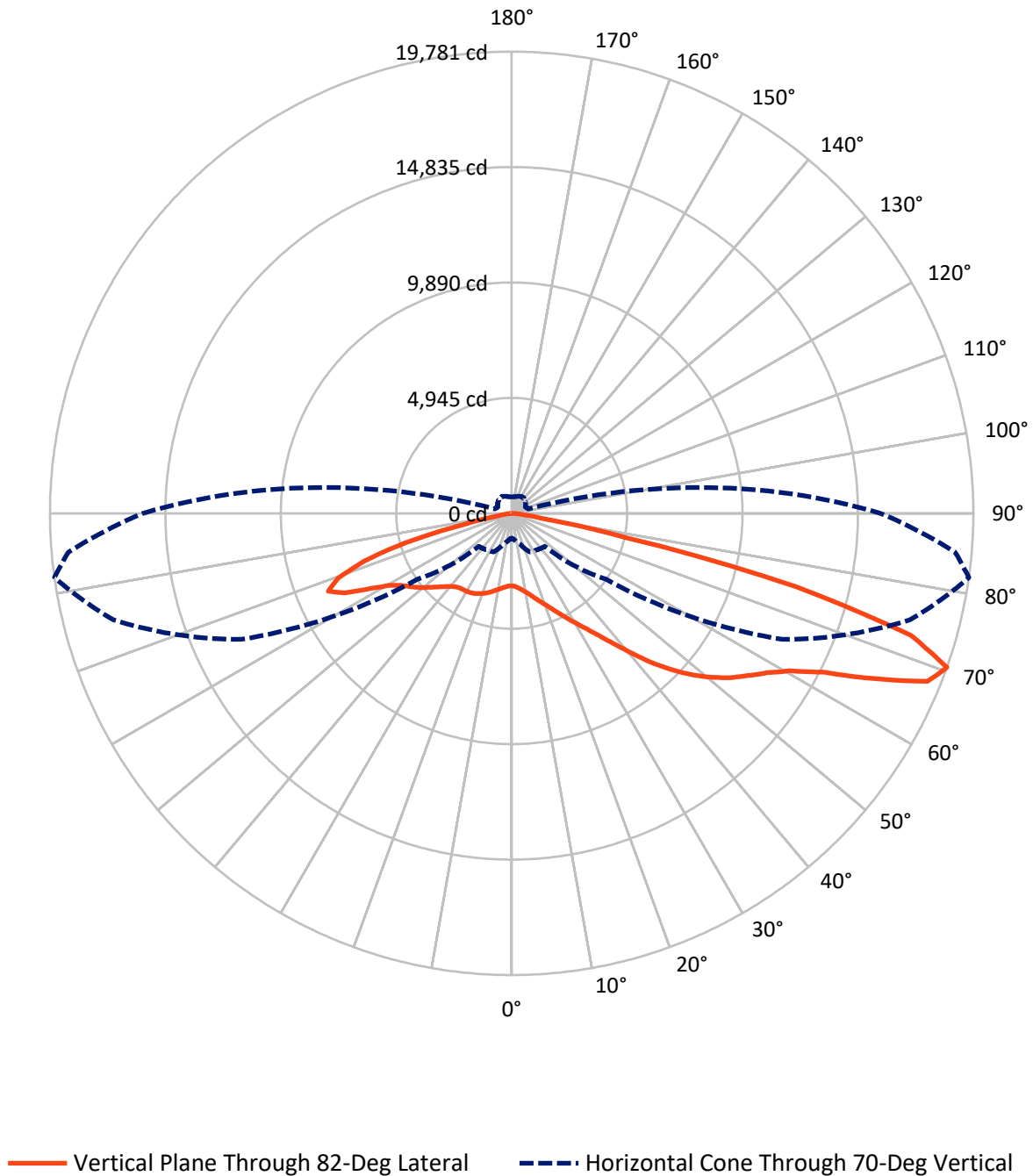
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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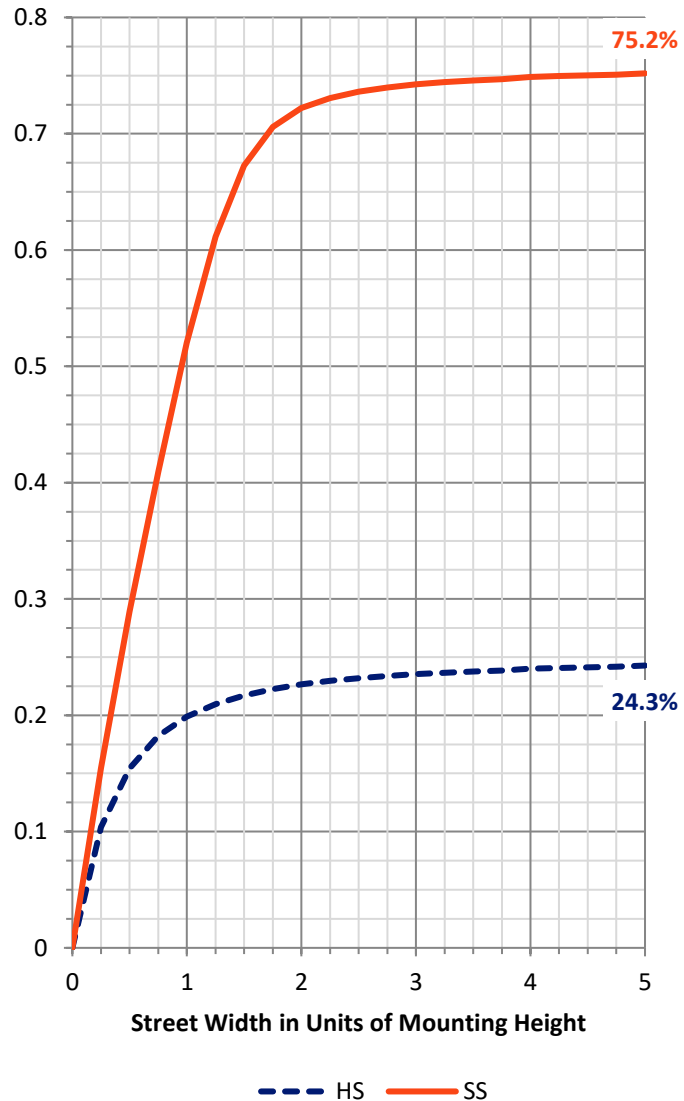
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5218.2	0.0	5218.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	15949.0	0.0	15949.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	21167.3	0.0	21167.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.0	1.4
10°-20°	841.8	4.0
20°-30°	1408.3	6.7
30°-40°	2200.2	10.4
40°-50°	3504.0	16.6
50°-60°	4876.3	23.0
60°-70°	5100.8	24.1
70°-80°	2666.0	12.6
80°-90°	276.8	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°	21167.3	100.0
0°-180°	21167.3	100.0

Coefficient of Utilization



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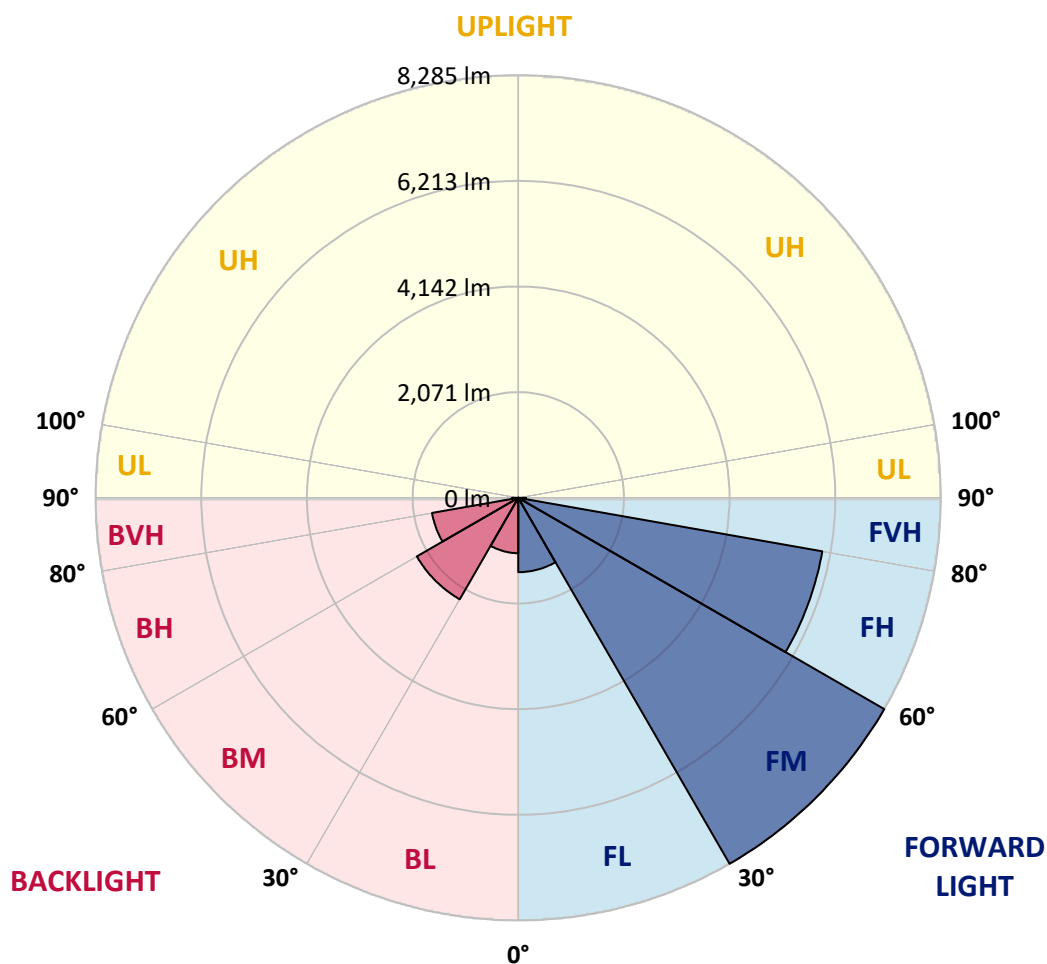
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1457.6	6.9			
FM	(30°-60°)	8284.7	39.1			
FH	(60°-80°)	6051.8	28.6			G3/7500
FVH	(80°-90°)	155.0	0.7			G2/225
BL	(0°-30°)	1085.6	5.1	B3/2500		
BM	(30°-60°)	2295.8	10.8	B2/2500		
BH	(60°-80°)	1715.0	8.1	B3/2500		G3/2500
BVH	(80°-90°)	121.9	0.6			G2/225
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°	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4
2.5°	3177.5	3195.5	3189.9	3184.3	3184.3	3176.4	3175.2	3164.1	3155.1	3140.5	3137.1
5°	3218.0	3237.1	3234.8	3239.3	3253.9	3257.2	3260.6	3253.9	3235.9	3218.0	3210.1
7.5°	3182.0	3203.3	3210.1	3237.1	3281.9	3322.4	3352.8	3365.1	3348.3	3322.4	3310.0
10°	3060.8	3084.3	3107.9	3171.9	3251.6	3347.1	3428.0	3476.3	3472.9	3448.2	3426.9
12.5°	2814.8	2839.5	2890.0	3014.6	3160.7	3329.2	3479.7	3580.7	3615.6	3597.5	3560.5
15°	2618.2	2639.5	2677.7	2805.7	2995.6	3251.6	3498.7	3695.3	3784.0	3773.9	3729.1
17.5°	2612.5	2621.5	2645.1	2705.8	2851.8	3130.4	3478.5	3807.7	3977.2	3976.1	3919.9
20°	2711.4	2714.7	2728.2	2740.6	2823.7	3038.2	3426.9	3900.8	4194.0	4194.0	4133.3
22.5°	2848.4	2846.2	2859.6	2848.4	2888.9	3030.4	3394.3	3982.8	4435.5	4453.4	4377.1
25°	3054.0	3042.7	3039.3	3013.5	3021.4	3103.4	3430.3	4076.1	4721.9	4759.0	4663.5
27.5°	3328.1	3310.0	3297.7	3238.2	3218.0	3253.9	3540.4	4188.4	5040.8	5104.9	4983.7
30°	3685.2	3652.6	3634.6	3531.3	3458.4	3463.9	3706.5	4337.8	5374.5	5477.8	5324.0
32.5°	4172.7	4122.1	4073.9	3904.2	3770.6	3726.8	3921.0	4544.4	5736.1	5901.2	5703.6
35°	4718.6	4678.1	4626.4	4364.8	4159.1	4058.1	4210.9	4833.1	6159.6	6421.3	6164.0
37.5°	5244.2	5209.4	5234.1	4881.4	4616.3	4469.2	4590.5	5220.6	6681.9	7068.3	6741.4
40°	5787.9	5760.9	5764.2	5427.3	5118.4	4953.3	5051.0	5707.0	7280.6	7837.7	7435.6
42.5°	6378.6	6358.4	6291.0	5992.3	5645.2	5491.3	5581.1	6268.6	7923.0	8713.7	8197.0
45°	7040.2	7027.8	6965.0	6622.3	6224.7	6051.8	6173.1	6888.5	8568.9	9538.1	8962.0
47.5°	7611.9	7622.0	7614.1	7325.5	6913.2	6659.4	6804.4	7535.5	9169.8	10313.1	9695.4
50°	7887.1	7939.9	8017.3	7927.6	7671.4	7413.1	7441.2	8160.0	9742.6	11039.9	10398.5
52.5°	7743.3	7843.3	8054.4	8198.2	8297.1	8243.2	8167.9	8780.0	10281.8	11695.9	11063.4
55°	7207.5	7347.9	7698.4	8045.4	8549.7	8941.8	9040.6	9467.4	10807.4	12273.1	11692.5
57.5°	6231.5	6459.4	6774.0	7475.9	8325.2	9279.8	10058.2	10421.0	11364.5	12889.8	12350.6
60°	4558.0	4863.4	5254.4	6298.8	7538.9	9099.0	10924.1	11885.7	12156.3	13688.4	13207.6
62.5°	2916.9	3105.6	3465.0	4449.0	5874.3	8172.3	11189.3	13716.4	13498.5	14998.0	14492.6
65°	1997.0	2118.4	2447.4	3000.1	3797.5	6083.3	10479.4	15089.0	15630.3	17073.7	16689.6
67.5°	1451.2	1543.2	1824.1	2308.2	2474.4	3599.8	8131.9	15026.1	17702.7	19212.3	18614.7
70°	1058.0	1123.2	1359.0	1824.1	1903.8	2002.6	4926.4	12772.9	17657.8	19780.6	19065.1
72.5°	784.0	828.9	987.3	1415.2	1541.0	1352.3	2438.5	9283.2	15173.3	17891.4	17317.4
75°	567.2	601.0	717.7	1082.8	1233.3	1029.9	1216.5	5425.0	10583.8	12585.4	12686.5
77.5°	433.6	459.4	535.8	792.9	987.3	772.7	754.8	2495.8	5018.4	5043.1	5326.2
80°	348.2	365.0	406.6	558.2	757.1	578.4	492.0	1007.5	1586.0	1342.2	1408.5
82.5°	256.0	284.1	343.7	392.0	541.4	398.7	299.9	508.8	603.1	519.0	523.4
85°	146.1	165.1	207.8	280.7	345.9	243.7	171.9	225.8	280.7	230.2	205.5
87.5°	51.7	67.3	73.0	110.1	150.5	101.1	66.3	65.2	92.1	68.5	57.3
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°	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4
2.5°	3125.8	3120.2	3097.8	3067.4	3035.9	3005.7	2995.6	2974.2	2959.6	2951.8	2960.7
5°	3188.8	3170.7	3117.9	3050.6	2979.9	2903.4	2849.5	2800.1	2764.2	2730.5	2743.9
7.5°	3278.6	3247.2	3156.2	3038.2	2912.4	2785.5	2691.1	2619.3	2571.0	2539.5	2546.3
10°	3383.0	3334.7	3195.5	3019.1	2824.8	2642.9	2531.6	2469.9	2439.6	2422.7	2427.2
12.5°	3503.2	3434.8	3235.9	2975.4	2691.1	2483.4	2407.0	2389.1	2390.2	2391.3	2393.5
15°	3651.5	3556.0	3268.5	2879.8	2517.1	2361.0	2347.5	2376.7	2407.0	2421.6	2420.4
17.5°	3818.8	3684.1	3274.2	2722.6	2346.3	2282.4	2325.0	2387.9	2434.0	2454.2	2458.7
20°	3998.5	3814.3	3233.7	2500.3	2206.0	2218.3	2294.7	2375.5	2426.1	2451.9	2458.7
22.5°	4204.1	3953.6	3137.1	2266.6	2091.4	2148.7	2238.5	2317.1	2369.9	2395.7	2402.5
25°	4438.9	4109.7	2985.4	2070.1	1992.5	2070.1	2159.9	2225.1	2267.7	2291.3	2298.0
27.5°	4699.4	4272.6	2783.3	1913.9	1906.1	1989.2	2063.3	2113.9	2136.3	2154.2	2161.0
30°	4961.1	4420.9	2538.4	1796.0	1830.9	1909.5	1962.3	1984.7	1991.5	1994.8	2002.6
32.5°	5244.2	4549.0	2281.2	1698.2	1758.9	1831.9	1863.3	1873.5	1842.0	1820.7	1827.5
35°	5586.8	4686.0	2029.6	1620.7	1688.2	1751.1	1761.2	1752.1	1715.1	1671.4	1673.5
37.5°	6010.2	4856.7	1828.6	1565.7	1621.9	1663.5	1651.1	1648.8	1652.2	1600.5	1603.9
40°	6529.1	5079.1	1681.4	1523.0	1567.9	1577.0	1542.1	1561.3	1578.1	1499.5	1501.7
42.5°	7105.3	5347.5	1588.2	1493.8	1523.0	1501.7	1447.8	1469.1	1466.9	1363.6	1362.4
45°	7692.7	5639.5	1555.6	1472.5	1481.5	1438.8	1379.2	1384.9	1337.7	1244.5	1247.8
47.5°	8276.8	5952.9	1575.8	1454.6	1429.9	1381.5	1335.5	1310.8	1241.2	1171.5	1171.5
50°	8849.6	6282.0	1649.9	1418.6	1359.0	1331.0	1297.2	1253.5	1179.4	1119.8	1115.3
52.5°	9380.9	6613.4	1733.1	1359.0	1270.3	1287.2	1265.9	1215.3	1142.3	1081.7	1082.8
55°	9884.1	6944.7	1765.7	1277.0	1187.3	1249.0	1236.7	1143.4	1055.9	1006.3	1001.9
57.5°	10432.2	7343.4	1729.7	1172.6	1119.8	1205.2	1158.0	1054.7	1004.1	967.1	963.7
60°	11191.5	7969.1	1652.2	1043.4	1055.9	1140.0	1059.1	1016.5	961.4	919.9	917.7
62.5°	12452.8	9136.0	1527.6	915.4	980.5	1043.4	1012.0	969.3	913.2	872.7	872.7
65°	14317.4	10758.0	1292.8	815.5	896.3	949.1	961.4	918.8	860.4	817.6	819.9
67.5°	15889.9	11775.6	978.3	732.4	809.9	872.7	907.5	866.0	804.2	762.6	763.7
70°	15803.3	11036.5	746.9	650.4	733.5	797.4	842.3	809.9	743.5	704.3	707.7
72.5°	14036.6	9232.7	604.2	567.2	655.9	718.8	772.7	748.0	680.7	642.5	642.5
75°	10312.0	6553.8	483.0	483.0	559.3	636.8	696.4	680.7	618.9	591.9	584.0
77.5°	4346.7	2749.6	378.5	401.0	465.0	547.0	621.2	626.8	572.9	606.5	550.3
80°	1155.8	758.2	288.6	315.6	365.0	451.5	540.3	538.0	479.6	448.1	416.7
82.5°	440.3	298.8	205.5	222.4	263.9	345.9	427.9	441.4	383.0	331.4	331.4
85°	169.6	128.0	126.9	133.7	153.9	229.1	323.5	334.7	288.6	244.9	252.8
87.5°	43.8	38.2	47.2	44.9	70.7	122.4	185.3	192.1	176.3	102.2	146.1
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)