

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: P964761

Luminaire Tested: **NAV-SB3C-835-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964761
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-SB3C-835-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

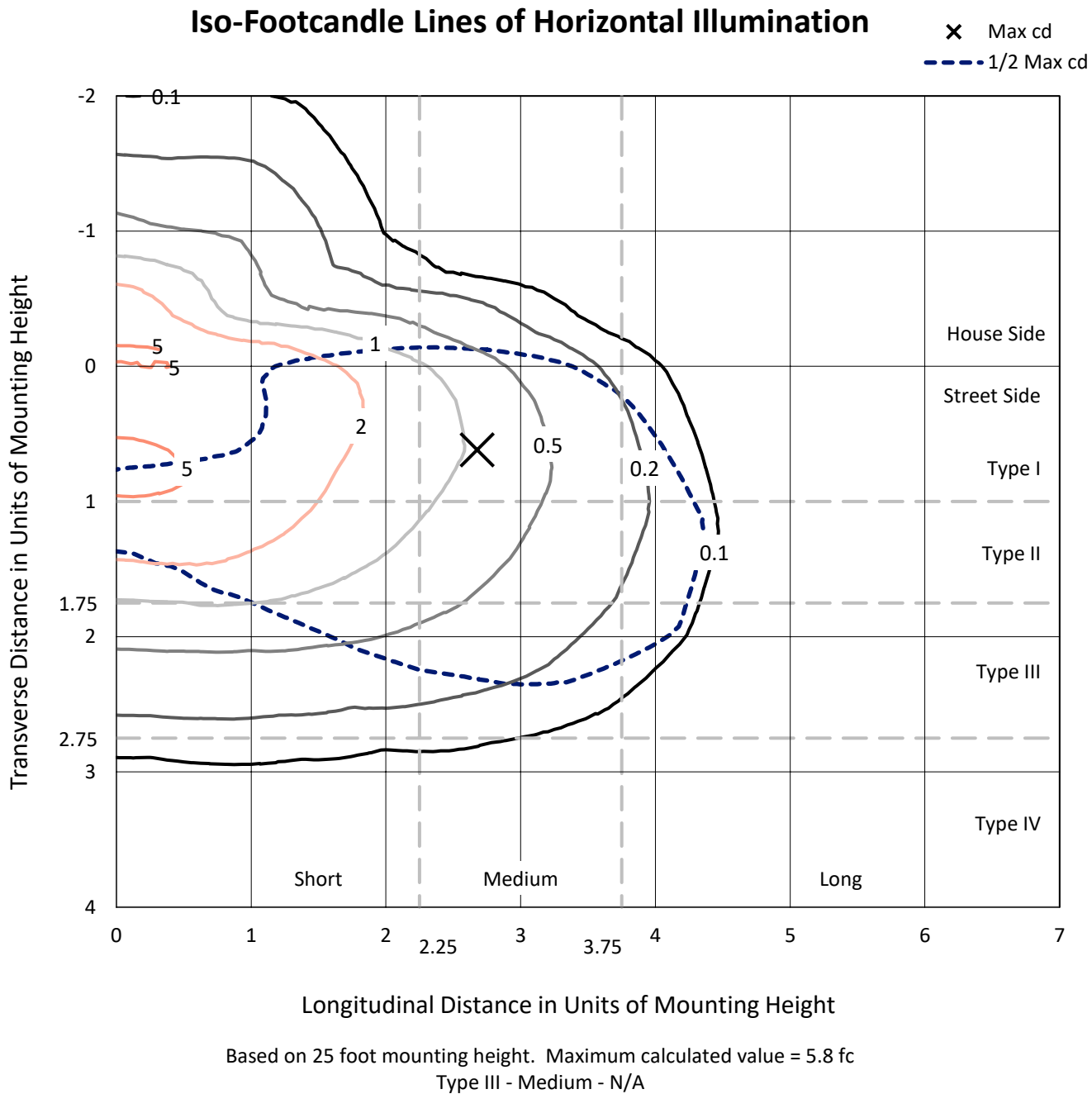
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21930.9 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - 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

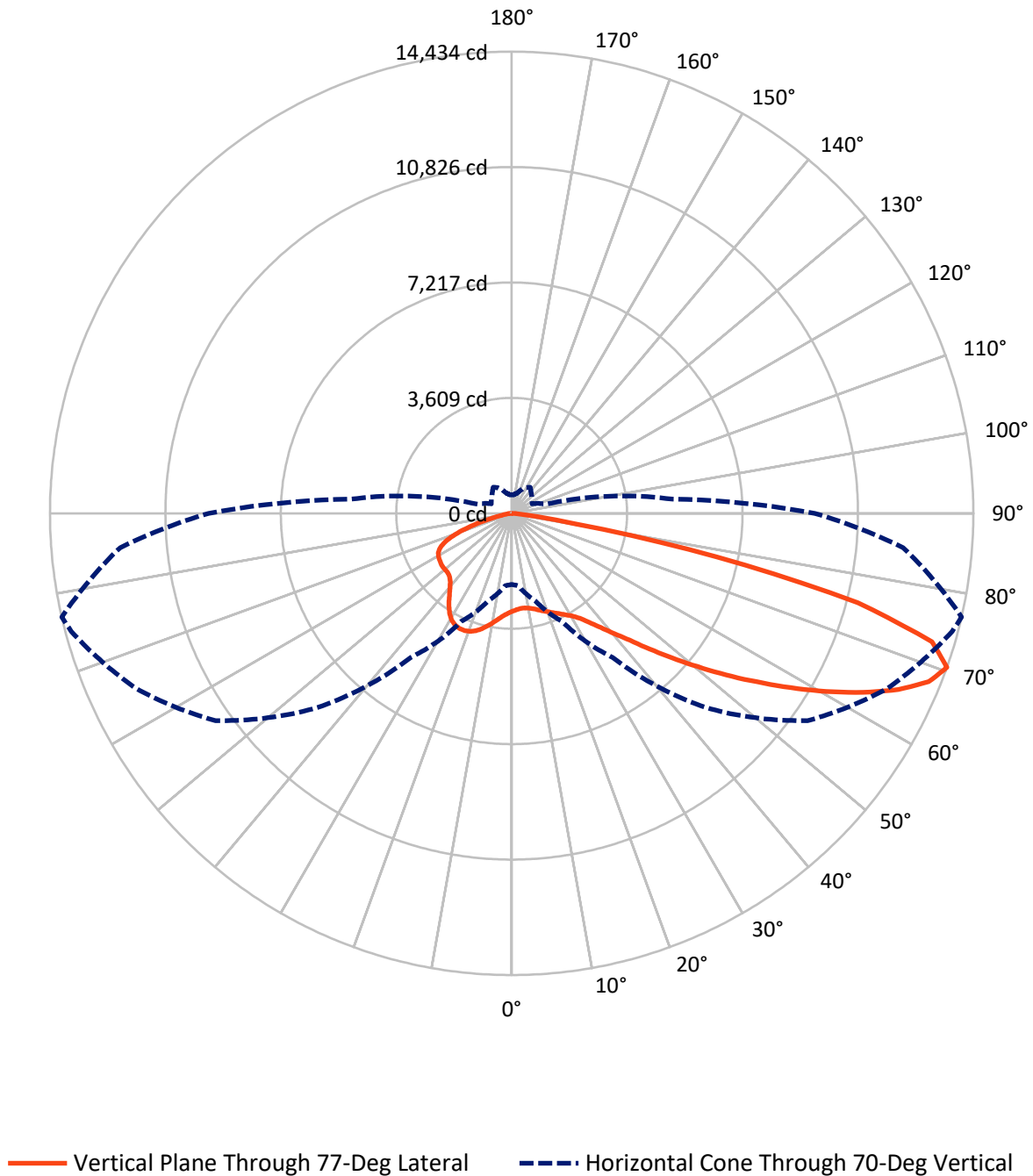


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Luminous Intensity Polar Plot



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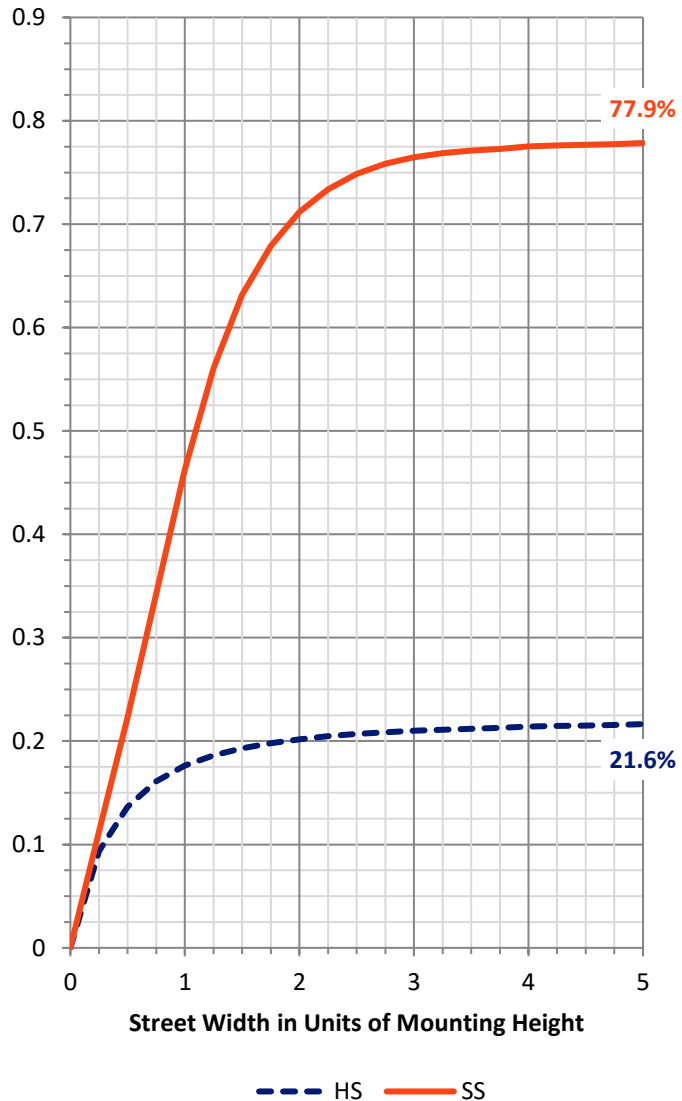
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4802.5	0.0	4802.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	17128.4	0.0	17128.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	21930.9	0.0	21930.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.8	1.3
10°-20°	842.2	3.8
20°-30°	1440.2	6.6
30°-40°	2316.0	10.6
40°-50°	3615.9	16.5
50°-60°	4830.0	22.0
60°-70°	5148.0	23.5
70°-80°	3169.1	14.5
80°-90°	277.7	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°	21930.9	100.0
0°-180°	21930.9	100.0

Coefficient of Utilization



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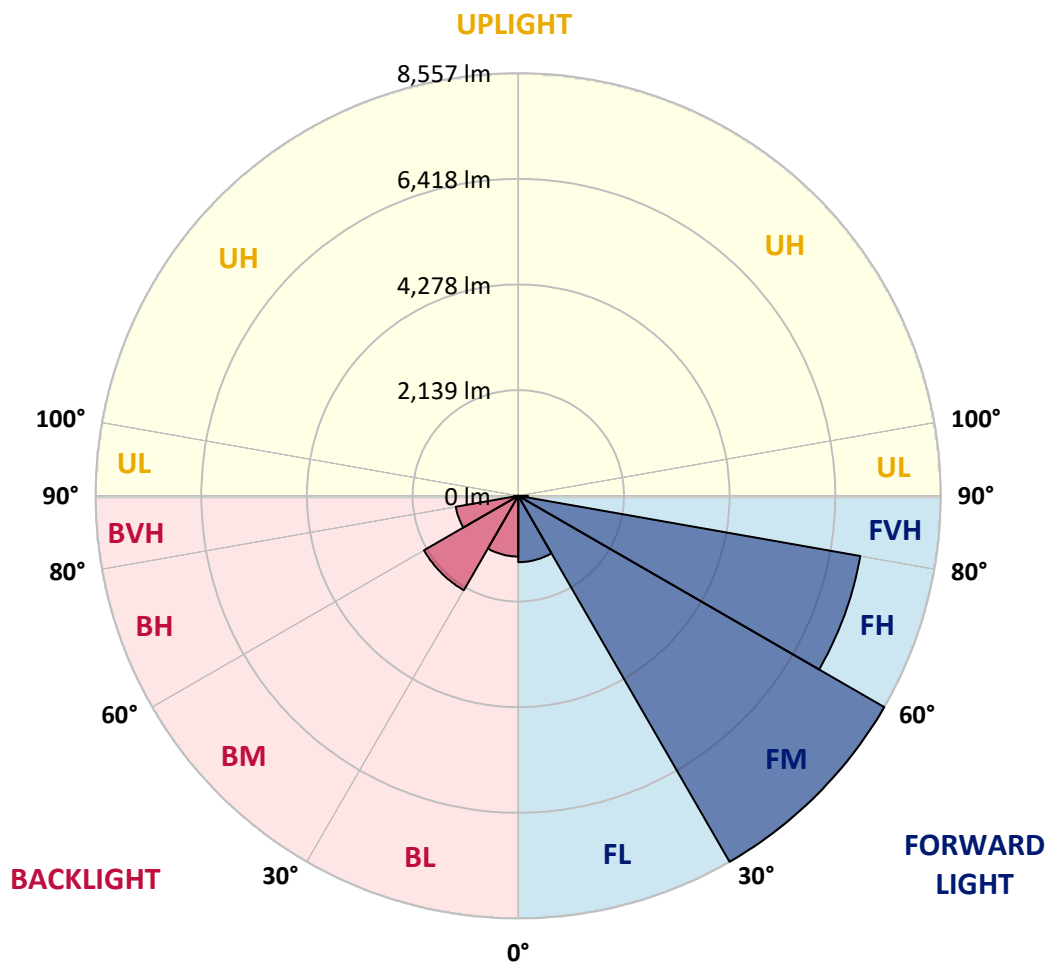
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1343.6	6.1			
FM	(30°-60°)	8557.0	39.0			
FH	(60°-80°)	7033.6	32.1			G3/7500
FVH	(80°-90°)	194.2	0.9			G2/225
BL	(0°-30°)	1230.6	5.6	B3/2500		
BM	(30°-60°)	2204.9	10.1	B2/2500		
BH	(60°-80°)	1283.5	5.9	B3/2500		G3/2500
BVH	(80°-90°)	83.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5
2.5°	2820.3	2819.2	2833.8	2838.3	2865.3	2884.4	2920.3	2958.5	3007.9	3013.5	3043.8
5°	2657.4	2657.4	2674.3	2692.3	2727.1	2765.2	2820.3	2886.6	2972.0	2985.4	3060.6
7.5°	2519.3	2528.3	2542.9	2577.7	2618.2	2673.2	2757.5	2851.8	2964.1	2985.4	3106.8
10°	2408.1	2418.2	2436.2	2464.3	2524.9	2601.3	2711.3	2832.7	2983.2	3016.9	3174.1
12.5°	2373.3	2383.4	2393.5	2414.9	2471.0	2560.9	2692.3	2841.7	3029.3	3062.9	3266.3
15°	2454.2	2466.6	2458.7	2453.0	2482.2	2564.2	2701.3	2874.2	3086.5	3134.9	3379.6
17.5°	2640.6	2645.1	2627.2	2574.4	2569.9	2613.6	2743.9	2919.2	3158.4	3211.2	3494.2
20°	2941.6	2933.8	2896.6	2792.2	2732.8	2723.7	2816.9	2986.5	3232.5	3288.7	3617.7
22.5°	3350.4	3341.5	3267.4	3102.3	2969.7	2882.1	2922.6	3074.2	3315.7	3378.5	3738.0
25°	3860.4	3848.1	3739.1	3514.4	3308.9	3092.1	3066.3	3189.8	3417.9	3476.3	3863.7
27.5°	4455.7	4445.5	4327.7	4031.1	3734.6	3379.6	3244.8	3325.7	3524.6	3590.8	4005.3
30°	5095.9	5125.1	4916.2	4597.2	4222.1	3754.8	3485.2	3493.1	3662.7	3722.3	4177.2
32.5°	5848.4	5899.0	5647.3	5243.1	4730.9	4162.5	3788.5	3726.7	3863.7	3913.1	4393.9
35°	6594.2	6651.5	6442.6	5995.5	5405.8	4643.2	4105.2	3995.1	4131.1	4185.0	4681.5
37.5°	7239.0	7315.3	7207.5	6818.9	6128.1	5222.8	4518.6	4310.7	4460.2	4527.5	5067.8
40°	7747.8	7864.5	7856.7	7614.1	6979.5	5925.9	5043.1	4700.5	4869.1	4942.0	5536.2
42.5°	8161.0	8262.1	8349.8	8337.5	7867.9	6724.5	5659.7	5207.1	5335.1	5419.4	6063.0
45°	8446.4	8554.2	8742.8	8946.2	8722.6	7579.3	6366.2	5808.0	5924.8	6051.7	6690.8
47.5°	8701.3	8823.7	9068.6	9390.9	9448.2	8437.4	7140.0	6507.7	6614.4	6745.8	7321.0
50°	8723.8	8829.3	9209.0	9666.2	9963.8	9261.8	7971.2	7292.9	7392.8	7533.2	7995.9
52.5°	8181.2	8347.5	9010.2	9658.3	10200.8	9951.4	8796.8	8109.4	8221.7	8390.2	8694.6
55°	6350.5	6594.2	8427.2	9357.2	10116.5	10397.3	9581.9	8977.7	9121.4	9297.8	9397.7
57.5°	5469.9	5576.6	6689.7	8809.2	9732.4	10513.0	10244.6	9854.9	10086.2	10279.4	10141.2
60°	4916.2	5004.9	5663.1	7956.7	9226.9	10329.9	10756.8	10672.5	11072.4	11302.7	10901.7
62.5°	4323.1	4407.4	5006.0	6643.6	8580.1	10025.5	11080.2	11427.3	12083.2	12334.8	11618.3
65°	3734.6	3806.4	4380.4	5582.3	7757.8	9721.2	11247.6	12079.8	13018.8	13279.4	12213.5
67.5°	3078.7	3138.1	3680.7	4709.6	6758.2	9304.4	11330.7	12593.2	13833.2	14056.6	12507.8
70°	2221.7	2267.7	2828.2	3724.4	5503.6	8587.9	11297.0	12957.1	14255.5	14434.0	12285.4
72.5°	1050.2	1091.7	1749.9	2418.2	3887.3	7192.9	10615.2	12668.4	13826.4	13737.7	10924.1
75°	560.5	596.4	1005.2	1326.5	2053.2	4930.8	8686.8	10912.9	11610.4	11179.1	8073.5
77.5°	379.7	407.7	622.3	796.3	937.9	2340.7	5583.4	7555.7	7269.3	6557.1	4043.5
80°	301.0	330.3	509.9	539.2	453.8	845.7	2307.1	3497.6	2512.6	2009.4	1150.2
82.5°	231.3	263.9	429.1	390.8	247.1	347.1	671.7	1106.4	643.6	489.7	278.6
85°	141.6	176.3	336.9	249.4	139.3	158.4	228.0	307.7	196.6	164.0	99.9
87.5°	71.9	101.1	170.8	91.0	62.9	37.1	60.7	60.7	51.7	44.9	25.8
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°	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5
2.5°	3070.8	3093.2	3131.5	3167.4	3195.4	3222.4	3249.4	3264.0	3268.5	3286.5	3296.5
5°	3106.8	3148.3	3222.4	3292.1	3335.9	3362.8	3381.9	3393.2	3395.4	3401.1	3410.0
7.5°	3173.0	3239.3	3342.6	3412.2	3444.8	3442.6	3434.7	3406.6	3395.4	3385.3	3387.5
10°	3266.3	3353.8	3480.8	3529.1	3508.9	3455.0	3385.3	3303.3	3265.1	3228.0	3216.8
12.5°	3381.9	3493.1	3617.7	3615.6	3515.5	3377.4	3215.7	3089.9	3010.1	2952.8	2939.4
15°	3522.3	3650.3	3745.9	3669.5	3450.5	3202.2	2965.2	2801.2	2729.4	2666.4	2659.7
17.5°	3667.2	3804.2	3848.1	3652.6	3286.5	2942.8	2674.3	2545.2	2474.4	2440.7	2450.8
20°	3808.7	3944.6	3908.7	3556.0	3037.1	2648.5	2409.3	2338.4	2323.9	2331.8	2328.4
22.5°	3958.1	4079.4	3921.0	3369.6	2719.2	2347.5	2216.0	2218.3	2250.9	2274.5	2280.1
25°	4110.9	4192.9	3888.4	3100.0	2377.8	2126.2	2093.7	2129.5	2193.6	2239.6	2252.0
27.5°	4258.0	4293.9	3817.7	2766.4	2084.6	1967.8	1973.4	2047.5	2144.2	2208.2	2223.9
30°	4424.2	4383.8	3681.8	2391.2	1881.4	1831.9	1879.1	1965.5	2062.2	2119.5	2132.9
32.5°	4611.8	4461.3	3466.1	2044.2	1737.6	1722.9	1800.5	1856.6	1899.3	1916.1	1925.2
35°	4845.4	4570.3	3189.8	1800.5	1608.4	1643.2	1717.4	1689.3	1672.4	1663.5	1672.4
37.5°	5148.7	4717.4	2866.4	1642.0	1504.0	1586.0	1616.2	1528.7	1462.4	1429.8	1437.7
40°	5513.7	4933.0	2555.2	1519.7	1437.7	1536.5	1483.7	1378.1	1294.0	1247.8	1251.2
42.5°	5919.2	5158.8	2293.5	1427.6	1400.7	1496.1	1386.0	1260.2	1124.3	1109.7	1124.3
45°	6344.9	5391.3	2115.0	1356.8	1382.6	1461.2	1329.8	1126.6	1029.9	1089.5	1120.9
47.5°	6770.5	5604.7	2007.2	1304.0	1373.7	1422.0	1280.4	1052.5	983.9	1070.4	1110.8
50°	7244.6	5795.7	1958.9	1265.9	1363.6	1406.2	1206.3	1033.3	935.6	992.9	1035.6
52.5°	7715.2	5943.9	1922.9	1227.6	1348.9	1393.9	1170.3	1010.9	877.2	880.6	904.2
55°	8184.6	6040.5	1883.5	1177.1	1316.4	1366.9	1167.0	986.2	833.4	817.6	828.9
57.5°	8685.6	6095.6	1835.3	1120.9	1260.2	1298.4	1163.6	967.1	819.9	794.1	797.4
60°	9195.5	6176.4	1772.4	1052.5	1185.0	1216.4	1155.8	960.3	812.1	768.2	771.6
62.5°	9652.6	6204.5	1697.1	987.3	1088.3	1135.5	1138.9	954.7	790.7	715.4	715.4
65°	9952.5	6083.2	1565.7	913.2	983.9	1052.5	1106.4	935.6	752.6	677.3	677.3
67.5°	9940.2	5737.2	1360.2	817.6	882.8	960.3	1059.1	903.0	706.5	630.1	633.4
70°	9477.5	5054.4	1099.6	706.5	771.6	861.5	998.6	854.7	651.5	578.4	585.2
72.5°	8128.5	3955.9	798.6	576.2	642.5	759.3	919.9	796.3	595.3	532.4	529.0
75°	5806.8	2503.6	541.4	442.5	499.8	643.6	822.2	727.9	543.7	534.6	504.3
77.5°	2966.4	1196.2	358.3	323.5	348.2	507.7	690.7	650.4	551.4	441.4	393.1
80°	964.8	441.4	225.8	220.2	231.3	338.0	534.6	533.5	417.8	299.9	265.1
82.5°	307.7	189.8	147.1	141.6	135.9	212.3	372.9	422.3	281.9	189.8	188.7
85°	122.4	113.5	86.5	79.7	57.3	99.9	195.5	280.7	210.0	137.0	140.4
87.5°	44.9	44.9	23.6	16.8	12.4	33.7	52.8	84.3	120.1	70.7	69.6
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)