

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: P964731

Luminaire Tested: **NAV-SB3C-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-830-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

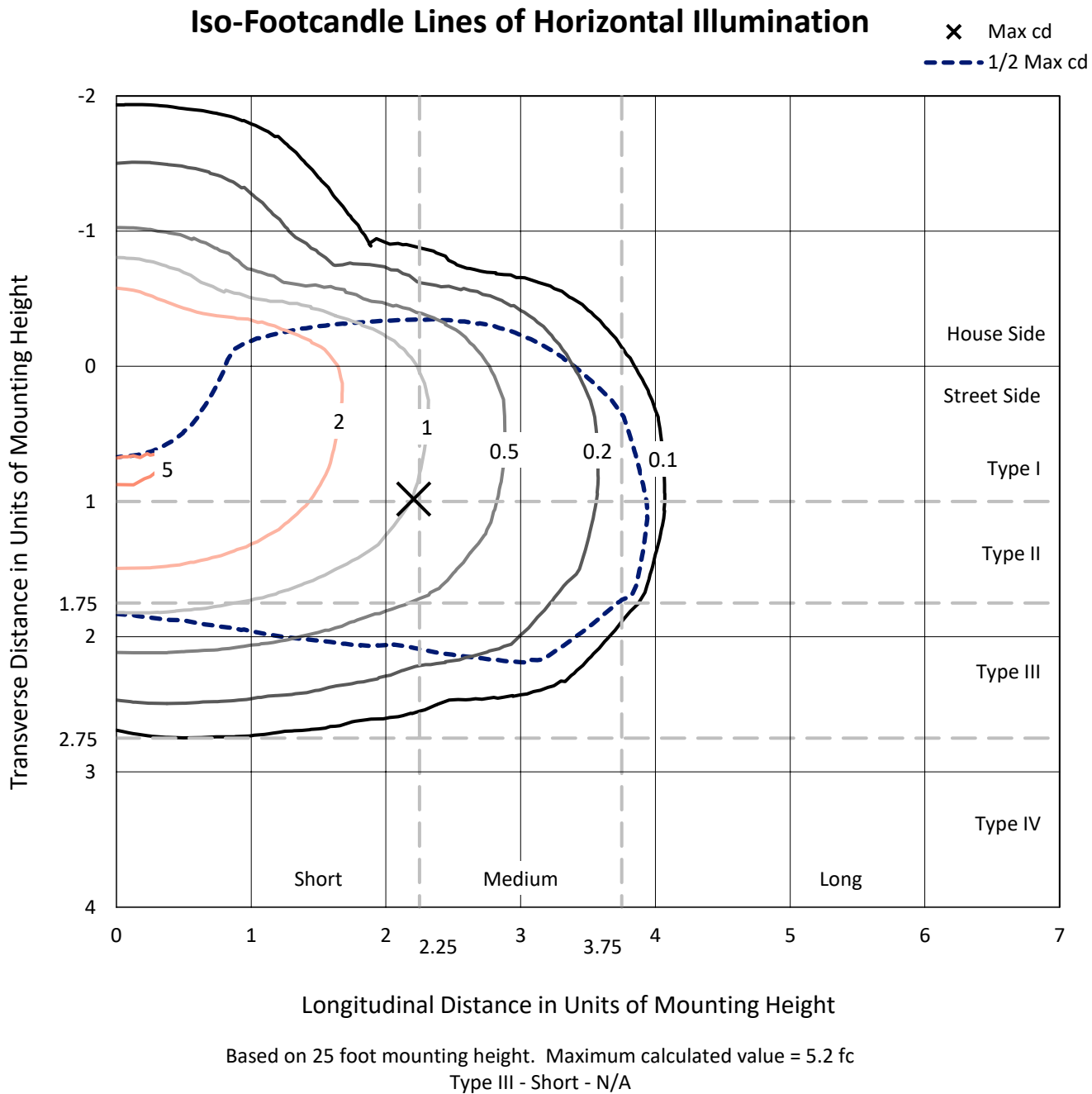
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20709.1 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
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

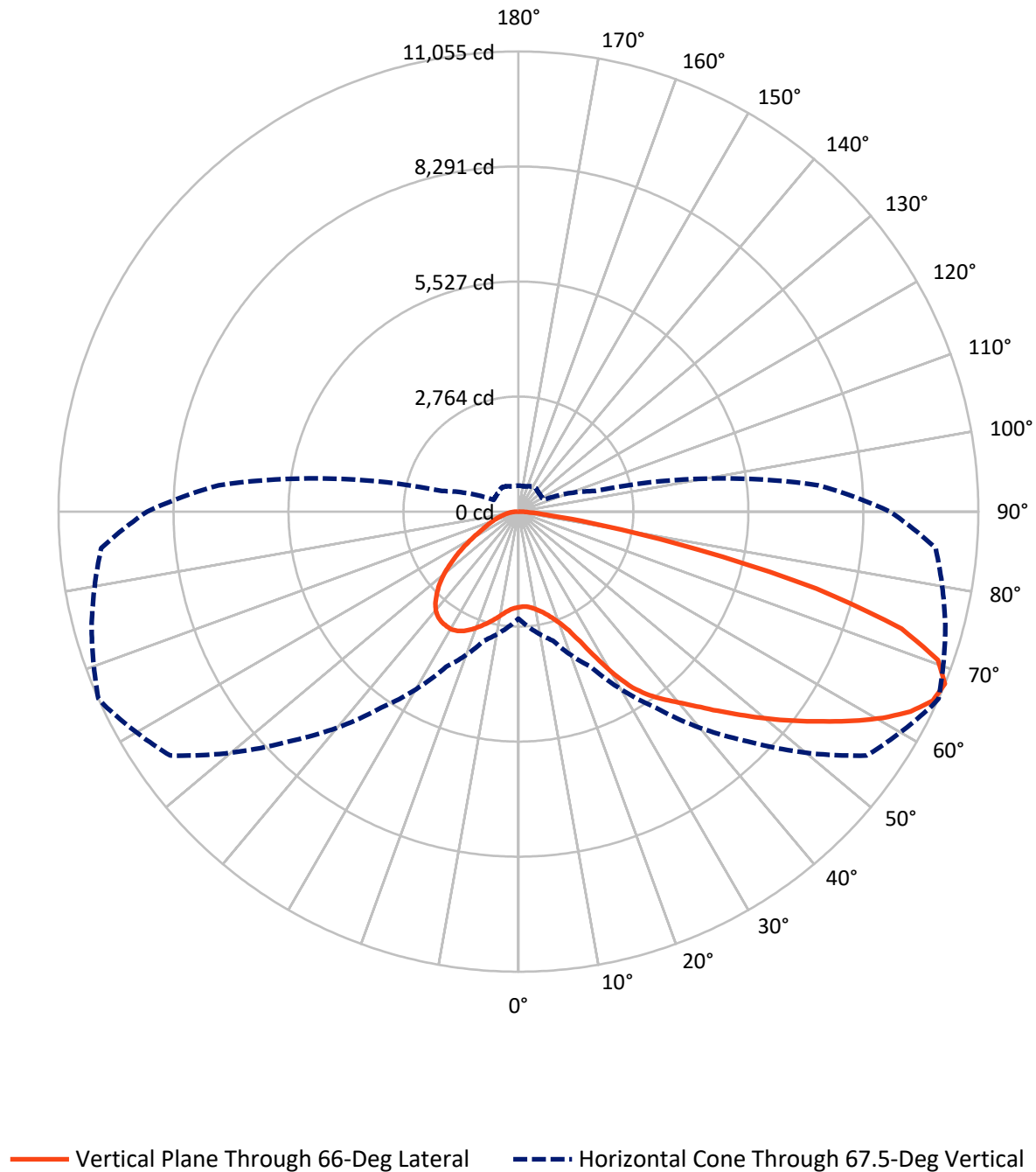


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Luminous Intensity Polar Plot



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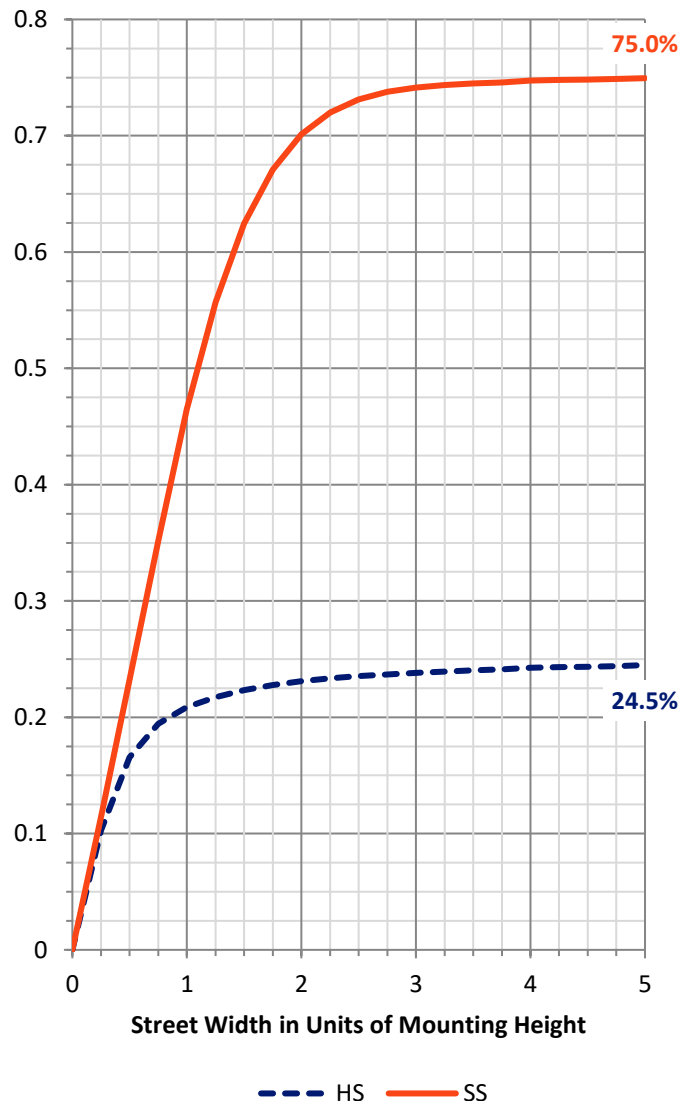
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5149.3	0.0	5149.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	15559.8	0.0	15559.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	20709.1	0.0	20709.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.7	1.1
10°-20°	752.4	3.6
20°-30°	1450.2	7.0
30°-40°	2542.7	12.3
40°-50°	3780.2	18.3
50°-60°	4791.7	23.1
60°-70°	4688.6	22.6
70°-80°	2236.5	10.8
80°-90°	239.0	1.2
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°	20709.1	100.0
0°-180°	20709.1	100.0

Coefficient of Utilization



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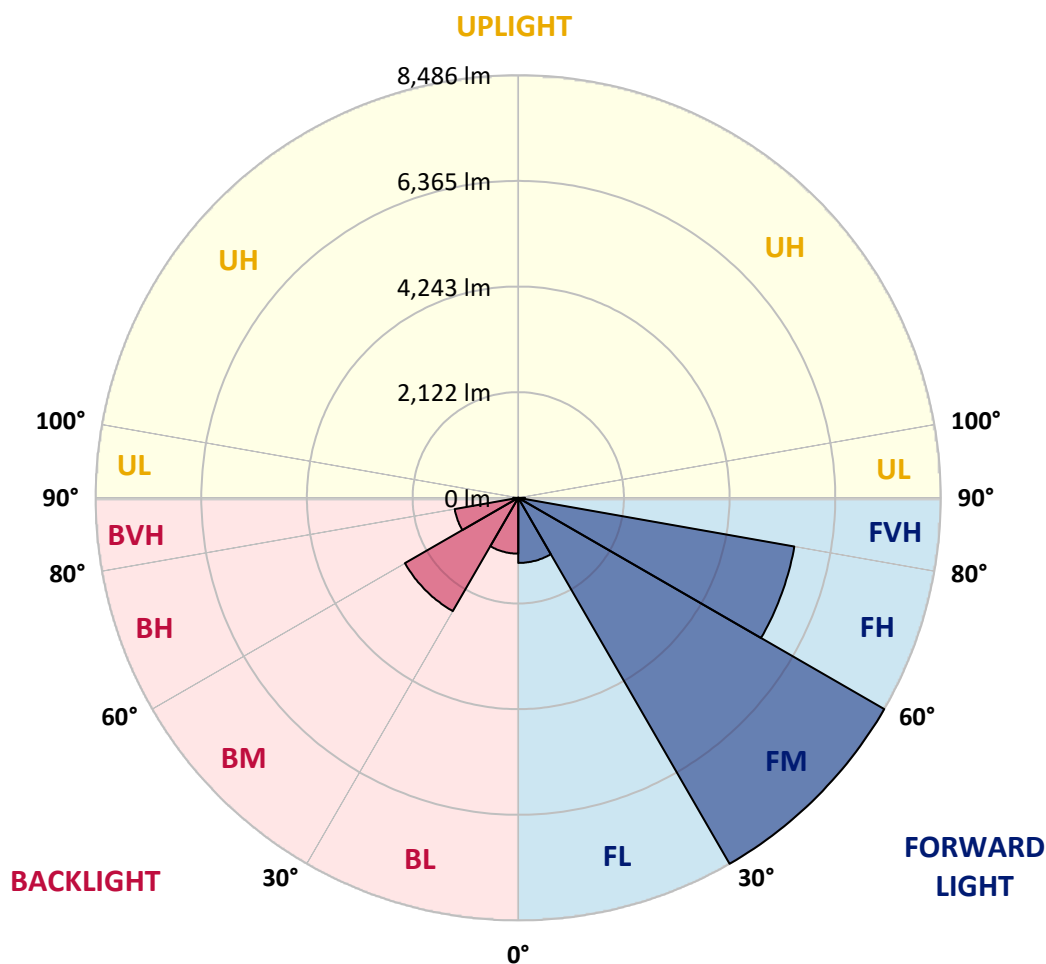
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1308.6	6.3			
FM	(30°-60°)	8486.4	41.0			
FH	(60°-80°)	5629.3	27.2			G3/7500
FVH	(80°-90°)	135.5	0.7			G2/225
BL	(0°-30°)	1121.7	5.4	B3/2500		
BM	(30°-60°)	2628.2	12.7	B3/5000		
BH	(60°-80°)	1295.8	6.3	B3/2500		G3/2500
BVH	(80°-90°)	103.5	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9
2.5°	2272.9	2286.1	2282.8	2277.3	2276.2	2278.4	2281.6	2284.9	2283.9	2289.3	2298.0
5°	2266.5	2279.5	2278.4	2278.4	2282.8	2291.5	2296.9	2302.4	2296.9	2303.5	2315.4
7.5°	2270.8	2280.6	2284.9	2289.3	2300.2	2316.5	2329.5	2341.5	2335.0	2342.6	2357.8
10°	2326.3	2333.9	2338.2	2338.2	2345.9	2364.4	2377.4	2399.2	2393.8	2405.7	2425.4
12.5°	2427.5	2435.1	2435.1	2430.8	2436.2	2448.1	2452.5	2476.4	2466.7	2486.2	2505.8
15°	2551.5	2566.8	2554.8	2547.1	2549.4	2561.3	2560.2	2578.7	2569.0	2585.3	2602.7
17.5°	2688.6	2708.2	2688.6	2687.5	2683.1	2696.3	2697.3	2713.7	2696.3	2708.2	2720.1
20°	2850.7	2877.9	2861.6	2867.0	2857.3	2862.7	2868.2	2892.0	2864.9	2873.6	2870.3
22.5°	3079.2	3111.9	3094.5	3115.2	3108.6	3104.2	3103.2	3145.6	3103.2	3106.5	3074.9
25°	3412.2	3451.4	3420.9	3449.2	3449.2	3463.4	3479.7	3534.1	3463.4	3442.7	3361.1
27.5°	3904.0	3943.2	3883.3	3900.7	3895.3	3930.1	3912.7	4047.6	3971.5	3937.7	3773.4
30°	4495.9	4565.6	4452.4	4448.0	4442.6	4498.1	4523.1	4612.3	4535.1	4501.4	4303.4
32.5°	5135.7	5208.5	5073.6	5034.5	5013.8	5047.5	5026.9	5098.7	5045.4	4993.2	4748.3
35°	5812.5	5884.3	5755.9	5679.7	5597.0	5526.3	5452.3	5470.8	5420.7	5341.4	5087.8
37.5°	6452.3	6583.9	6447.9	6366.3	6214.0	6075.8	5869.0	5783.0	5736.3	5663.4	5407.7
40°	7104.0	7179.1	7075.7	7006.1	6840.6	6624.2	6293.4	6111.7	6048.5	5977.8	5761.3
42.5°	7583.9	7655.6	7600.2	7552.3	7422.8	7171.4	6743.9	6516.4	6425.0	6345.6	6161.7
45°	7964.7	8018.0	7983.1	8000.5	7945.1	7701.3	7210.7	6950.6	6855.9	6759.1	6614.3
47.5°	8118.1	8174.7	8230.1	8333.6	8428.2	8248.7	7712.2	7420.6	7320.6	7221.5	7079.0
50°	8100.7	8158.4	8319.4	8539.2	8832.9	8773.1	8241.0	7921.1	7828.6	7715.5	7583.9
52.5°	7961.4	8026.7	8233.4	8599.0	9066.8	9165.9	8779.6	8438.0	8350.9	8216.0	8084.4
55°	7595.8	7635.0	7945.1	8463.0	9122.4	9440.0	9307.3	8988.5	8901.5	8713.2	8569.6
57.5°	6917.9	6974.5	7426.0	8096.3	8983.1	9626.2	9770.8	9567.3	9483.6	9212.7	9062.5
60°	6033.4	6123.7	6640.5	7480.4	8628.3	9625.1	10192.0	10136.4	10066.8	9704.5	9547.8
62.5°	5032.3	5136.8	5634.0	6610.0	8008.2	9352.0	10455.2	10613.1	10577.1	10158.2	9958.0
65°	3864.9	3936.6	4431.7	5483.9	7043.1	8765.5	10485.8	10938.4	10944.8	10503.2	10172.3
67.5°	2573.3	2780.0	3209.8	4115.1	5750.5	7806.9	10218.0	10991.7	11054.7	10621.8	10064.7
70°	1255.6	1527.7	1948.7	2674.4	4115.1	6337.0	9518.5	10554.2	10694.6	10275.7	9422.7
72.5°	521.2	609.4	838.9	1319.8	2362.2	4276.1	8112.7	9368.3	9628.3	9105.0	7922.2
75°	351.5	380.8	479.8	676.8	1076.1	2108.6	5850.5	6985.4	7404.3	6876.6	5621.0
77.5°	270.9	289.5	349.3	473.3	639.8	797.6	3131.5	4209.8	4426.3	4097.6	2924.7
80°	213.3	227.4	261.2	344.9	453.8	426.5	1067.4	1907.4	2032.5	1705.0	940.1
82.5°	185.0	190.4	187.2	233.9	301.3	249.2	350.3	704.0	776.8	563.6	306.9
85°	133.9	149.0	155.6	144.7	159.9	126.2	143.6	249.2	274.2	244.8	173.0
87.5°	54.4	80.6	99.0	93.6	58.7	35.9	44.6	72.9	83.7	91.4	56.6
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°	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9	2296.9
2.5°	2299.1	2306.7	2312.2	2318.7	2323.1	2329.5	2342.6	2350.2	2351.4	2356.8	2355.7
5°	2319.8	2330.6	2342.6	2360.1	2379.6	2395.9	2420.9	2438.4	2444.9	2450.4	2449.2
7.5°	2364.4	2379.6	2401.4	2431.8	2460.1	2481.9	2512.4	2533.0	2553.7	2561.3	2562.4
10°	2430.8	2452.5	2484.1	2525.4	2555.8	2584.1	2615.7	2633.1	2653.8	2662.5	2666.8
12.5°	2513.4	2536.3	2577.7	2635.3	2663.6	2683.1	2694.0	2689.7	2694.0	2701.7	2703.8
15°	2608.1	2633.1	2679.9	2742.0	2761.6	2744.1	2720.1	2698.4	2695.1	2697.3	2705.0
17.5°	2720.1	2738.7	2793.0	2845.3	2831.2	2759.3	2707.1	2672.3	2654.9	2649.4	2657.1
20°	2876.9	2876.9	2921.5	2954.2	2859.4	2737.6	2656.0	2599.4	2563.5	2548.3	2545.0
22.5°	3067.3	3049.9	3078.2	3055.3	2854.0	2676.7	2563.5	2465.5	2411.2	2389.4	2386.1
25°	3308.8	3288.1	3280.5	3139.1	2814.9	2579.8	2395.9	2277.3	2229.5	2217.5	2219.6
27.5°	3673.3	3621.1	3522.1	3184.8	2743.0	2427.5	2200.1	2090.2	2063.0	2064.0	2067.3
30°	4158.6	4054.2	3811.5	3192.4	2625.5	2212.1	1999.9	1921.6	1908.4	1913.9	1932.4
32.5°	4608.0	4509.0	4107.5	3157.6	2444.9	2001.0	1820.3	1768.1	1748.5	1755.0	1763.7
35°	4960.5	4933.3	4381.7	3108.6	2222.9	1803.0	1659.3	1614.7	1576.7	1567.9	1574.4
37.5°	5293.4	5282.5	4587.3	3040.0	2003.2	1662.6	1529.8	1471.1	1415.6	1385.1	1386.2
40°	5659.0	5648.2	4722.2	2934.5	1808.4	1540.7	1413.4	1336.2	1267.6	1212.1	1217.6
42.5°	6070.4	6006.1	4786.4	2783.3	1643.0	1437.4	1318.8	1214.3	1124.0	1072.9	1076.1
45°	6519.7	6375.0	4785.3	2590.7	1503.7	1342.6	1217.6	1069.6	985.7	937.9	935.7
47.5°	6996.2	6727.5	4726.6	2377.4	1368.8	1238.2	1060.9	947.7	892.3	862.8	856.3
50°	7488.1	7057.2	4626.4	2132.6	1230.6	1119.6	963.0	885.7	843.3	816.0	806.3
52.5°	7950.5	7356.4	4505.7	1855.1	1090.3	1004.3	919.4	859.6	815.0	784.5	771.4
55°	8380.3	7614.3	4334.8	1571.1	976.0	927.0	898.7	848.7	797.6	761.7	747.5
57.5°	8762.2	7781.9	4040.0	1304.6	894.4	873.7	877.0	830.1	771.4	741.0	721.4
60°	9080.0	7904.8	3603.7	1057.6	828.0	821.5	843.3	795.4	726.8	692.0	676.8
62.5°	9270.3	7902.6	3068.3	866.1	771.4	773.6	798.7	751.8	682.2	649.5	639.8
65°	9254.0	7708.9	2480.8	741.0	717.0	719.2	751.8	704.0	645.2	625.7	624.5
67.5°	8926.5	7236.7	1903.0	659.4	657.2	667.0	705.1	671.4	622.4	620.2	623.5
70°	8039.7	6256.4	1370.9	594.1	595.2	609.4	659.4	650.7	610.4	614.8	613.7
72.5°	6446.8	4770.0	920.6	525.5	526.6	549.5	615.8	634.4	598.4	656.1	664.8
75°	4293.5	2974.8	591.9	452.6	453.8	483.1	577.8	602.8	565.8	653.9	659.4
77.5°	2063.0	1337.2	428.7	380.8	380.8	408.1	499.4	539.7	482.1	508.1	465.7
80°	712.7	502.7	337.3	306.9	300.3	318.8	421.1	467.9	415.6	383.0	359.1
82.5°	280.7	261.2	270.9	238.3	216.5	228.5	327.5	386.2	305.8	276.3	275.3
85°	161.0	169.7	191.5	157.7	125.2	140.3	240.5	277.5	230.6	203.5	207.9
87.5°	43.6	59.9	88.1	81.6	56.6	59.9	114.3	153.4	132.7	102.3	105.6
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)