

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: McGRAW-EDISON

Report Number: P940427

Luminaire Tested: **GALN-SB3C-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940427
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: McGRAW-EDISON
Catalog Number: GALN-SB3C-727-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

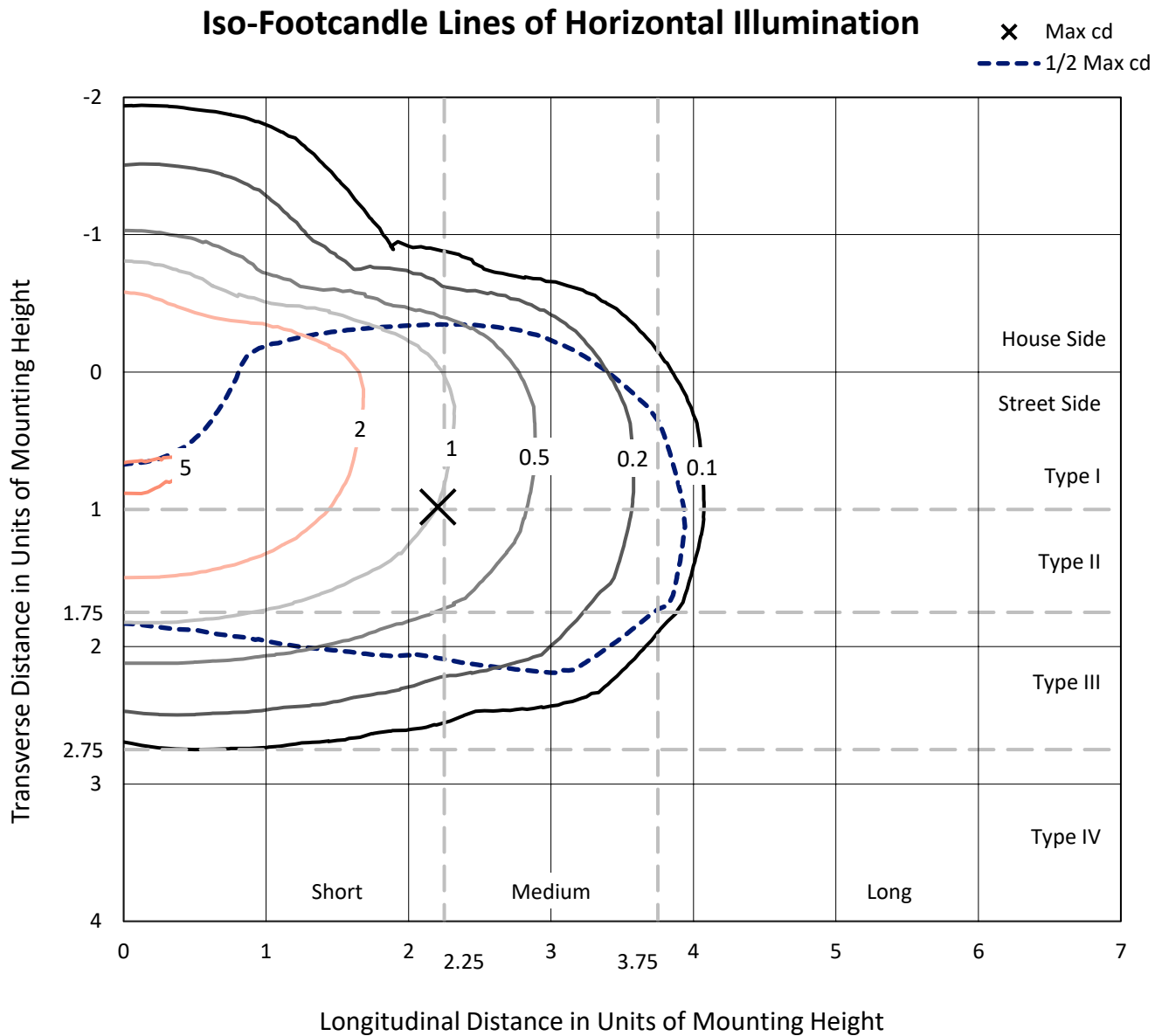
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20856 lumens
Efficiency: N/A
Efficacy: 139.9 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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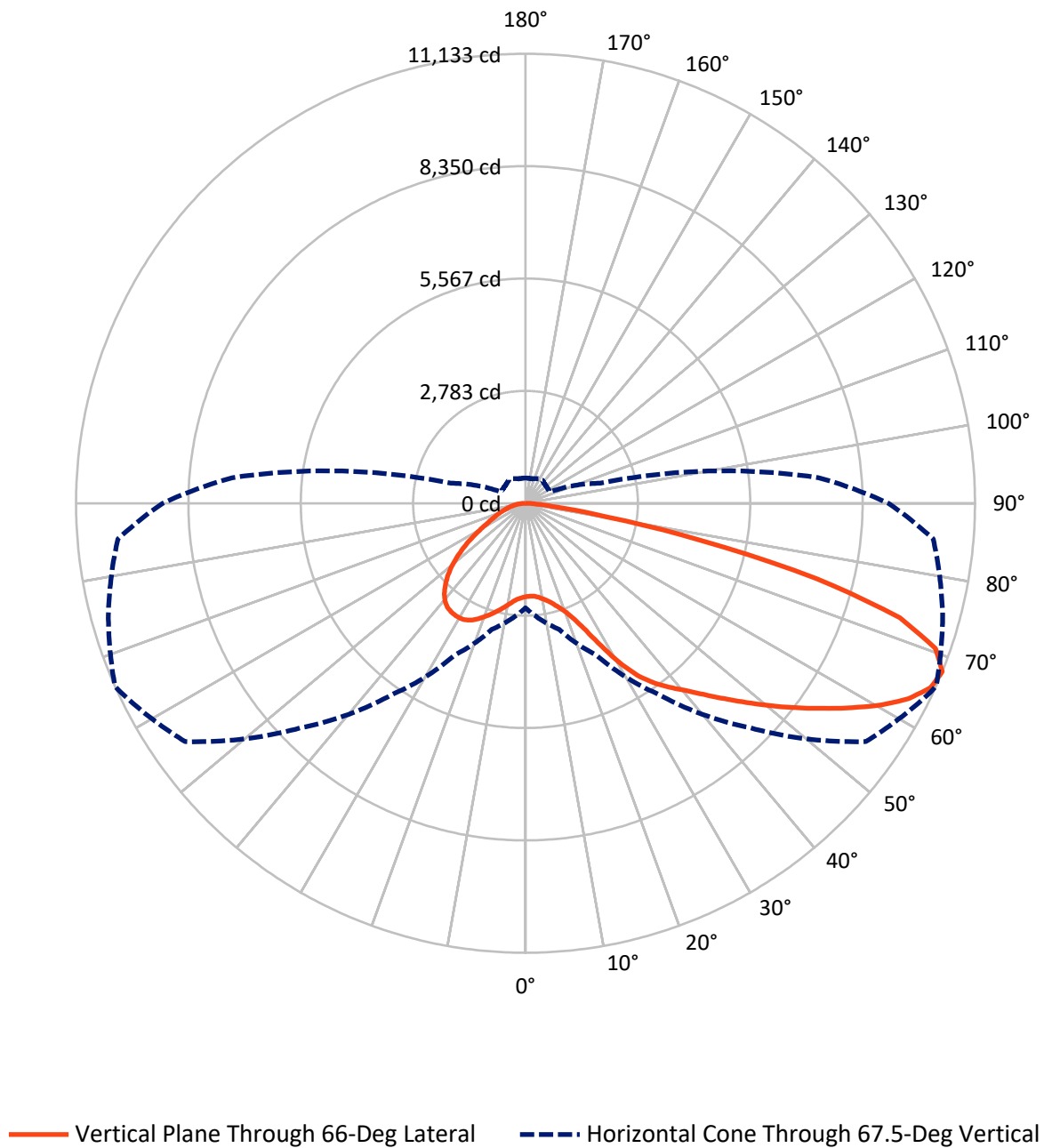


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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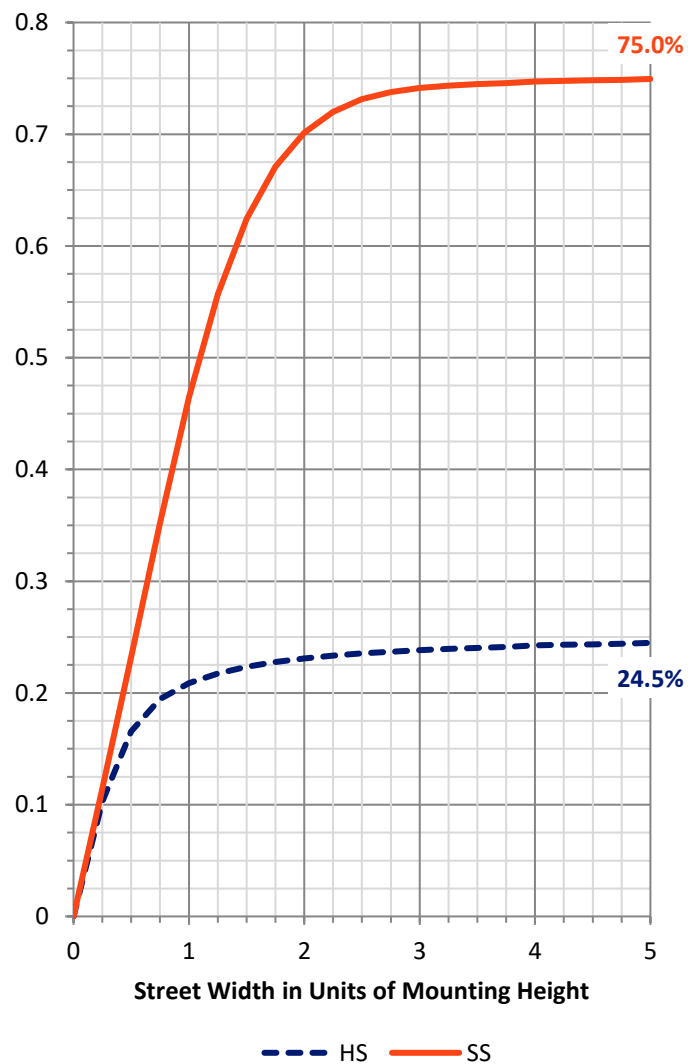
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5185.8	0.0	5185.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	15670.2	0.0	15670.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	20856.0	0.0	20856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.3	1.1
10°-20°	757.7	3.6
20°-30°	1460.5	7.0
30°-40°	2560.8	12.3
40°-50°	3807.0	18.3
50°-60°	4825.7	23.1
60°-70°	4721.9	22.6
70°-80°	2252.4	10.8
80°-90°	240.7	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°	20856.0	100.0
0°-180°	20856.0	100.0

Coefficient of Utilization



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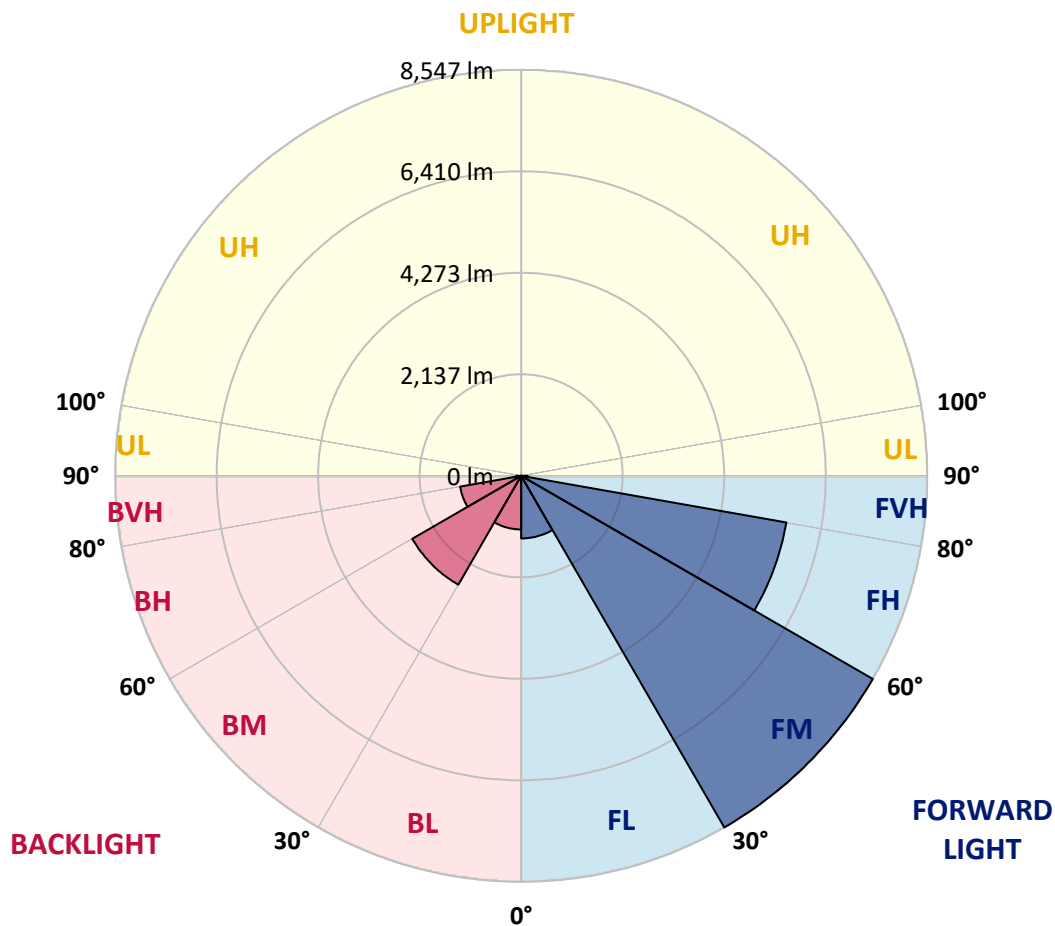
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1317.9	6.3			
FM	(30°-60°)	8546.6	41.0			
FH	(60°-80°)	5669.2	27.2			G3/7500
FVH	(80°-90°)	136.5	0.7			G2/225
BL	(0°-30°)	1129.7	5.4	B3/2500		
BM	(30°-60°)	2646.9	12.7	B3/5000		
BH	(60°-80°)	1305.0	6.3	B3/2500		G3/2500
BVH	(80°-90°)	104.2	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°	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2
2.5°	2289.1	2302.2	2299.0	2293.5	2292.4	2294.6	2297.9	2301.2	2300.1	2305.5	2314.3
5°	2282.5	2295.7	2294.6	2294.6	2299.0	2307.7	2313.2	2318.7	2313.2	2319.8	2331.8
7.5°	2286.9	2296.8	2301.2	2305.5	2316.5	2332.9	2346.1	2358.1	2351.6	2359.2	2374.6
10°	2342.8	2350.5	2354.8	2354.8	2362.5	2381.1	2394.3	2416.2	2410.7	2422.8	2442.5
12.5°	2444.7	2452.4	2452.4	2448.0	2453.5	2465.5	2469.9	2494.0	2484.1	2503.9	2523.6
15°	2569.6	2585.0	2572.9	2565.2	2567.4	2579.5	2578.4	2597.0	2587.2	2603.6	2621.1
17.5°	2707.7	2727.4	2707.7	2706.6	2702.2	2715.4	2716.5	2732.9	2715.4	2727.4	2739.5
20°	2871.0	2898.4	2881.9	2887.4	2877.5	2883.0	2888.5	2912.6	2885.2	2894.0	2890.7
22.5°	3101.1	3134.0	3116.4	3137.2	3130.7	3126.3	3125.2	3167.9	3125.2	3128.5	3096.7
25°	3436.4	3475.8	3445.2	3473.6	3473.6	3487.9	3504.3	3559.1	3487.9	3467.1	3384.9
27.5°	3931.7	3971.1	3910.9	3928.4	3922.9	3958.0	3940.4	4076.3	3999.6	3965.7	3800.2
30°	4527.8	4597.9	4484.0	4479.6	4474.1	4530.0	4555.2	4645.0	4567.2	4533.3	4333.8
32.5°	5172.1	5245.5	5109.7	5070.2	5049.4	5083.4	5062.5	5134.9	5081.2	5028.6	4782.0
35°	5853.7	5926.0	5796.7	5720.0	5636.7	5565.5	5491.0	5509.6	5459.2	5379.2	5123.9
37.5°	6498.0	6630.6	6493.6	6411.4	6258.0	6118.9	5910.7	5824.1	5777.0	5703.6	5446.1
40°	7154.4	7230.0	7125.9	7055.8	6889.2	6671.2	6338.0	6155.0	6091.5	6020.3	5802.2
42.5°	7637.6	7710.0	7654.1	7605.9	7475.5	7222.3	6791.7	6562.7	6470.6	6390.6	6205.4
45°	8021.2	8074.9	8039.8	8057.3	8001.4	7756.0	7261.8	6999.9	6904.6	6807.0	6661.3
47.5°	8175.7	8232.6	8288.5	8392.6	8488.0	8307.2	7766.9	7473.3	7372.5	7272.7	7129.2
50°	8158.1	8216.2	8378.4	8599.7	8895.6	8835.3	8299.5	7977.3	7884.2	7770.2	7637.6
52.5°	8017.9	8083.6	8291.8	8660.0	9131.2	9230.9	8841.9	8497.8	8410.2	8274.3	8141.7
55°	7649.7	7689.1	8001.4	8523.0	9187.1	9507.0	9373.4	9052.3	8964.6	8775.1	8630.4
57.5°	6967.0	7024.0	7478.7	8153.7	9046.8	9694.4	9840.2	9635.3	9550.9	9278.0	9126.8
60°	6076.1	6167.1	6687.6	7533.5	8689.6	9693.3	10264.2	10208.4	10138.2	9773.3	9615.5
62.5°	5068.0	5173.2	5674.0	6656.9	8065.0	9418.3	10529.4	10688.3	10652.1	10230.3	10028.6
65°	3892.2	3964.6	4463.1	5522.8	7093.0	8827.7	10560.1	11015.9	11022.5	10577.6	10244.5
67.5°	2591.5	2799.7	3232.6	4144.3	5791.2	7862.3	10290.5	11069.6	11133.2	10697.1	10136.0
70°	1264.5	1538.5	1962.6	2693.4	4144.3	6381.9	9585.9	10629.1	10770.5	10348.6	9489.5
72.5°	524.9	613.6	844.9	1329.2	2379.0	4306.4	8170.2	9434.7	9696.6	9169.5	7978.4
75°	353.9	383.5	483.2	681.6	1083.7	2123.6	5892.0	7035.0	7456.8	6925.4	5660.8
77.5°	272.9	291.5	351.7	476.7	644.3	803.2	3153.7	4239.6	4457.7	4126.7	2945.5
80°	214.8	229.0	263.0	347.4	456.9	429.5	1075.0	1920.9	2046.9	1717.1	946.8
82.5°	186.3	191.8	188.5	235.6	303.5	250.9	352.8	709.0	782.4	567.6	309.0
85°	134.8	150.1	156.7	145.7	161.1	127.1	144.6	250.9	276.1	246.6	174.2
87.5°	54.8	81.1	99.7	94.2	59.2	36.2	44.9	73.4	84.4	92.0	57.0
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°	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2
2.5°	2315.4	2323.1	2328.5	2335.1	2339.5	2346.1	2359.2	2366.9	2368.0	2373.5	2372.4
5°	2336.2	2347.2	2359.2	2376.8	2396.5	2412.9	2438.1	2455.7	2462.2	2467.7	2466.6
7.5°	2381.1	2396.5	2418.4	2449.1	2477.6	2499.5	2530.2	2551.0	2571.8	2579.5	2580.6
10°	2448.0	2469.9	2501.7	2543.3	2574.0	2602.5	2634.3	2651.8	2672.6	2681.4	2685.8
12.5°	2531.3	2554.3	2595.9	2654.0	2682.5	2702.2	2713.2	2708.8	2713.2	2720.8	2723.0
15°	2626.6	2651.8	2698.9	2761.4	2781.1	2763.6	2739.5	2717.6	2714.3	2716.5	2724.1
17.5°	2739.5	2758.1	2812.9	2865.5	2851.2	2778.9	2726.3	2691.3	2673.7	2668.2	2675.9
20°	2897.3	2897.3	2942.2	2975.1	2879.7	2757.0	2674.8	2617.8	2581.7	2566.3	2563.0
22.5°	3089.0	3071.5	3100.0	3077.0	2874.2	2695.6	2581.7	2483.1	2428.3	2406.3	2403.1
25°	3332.3	3311.5	3303.8	3161.3	2834.8	2598.1	2412.9	2293.5	2245.3	2233.2	2235.4
27.5°	3699.4	3646.8	3547.1	3207.4	2762.5	2444.7	2215.7	2105.0	2077.6	2078.7	2082.0
30°	4188.1	4082.9	3838.5	3215.0	2644.1	2227.7	2014.1	1935.2	1922.0	1927.5	1946.1
32.5°	4640.7	4540.9	4136.6	3180.0	2462.2	2015.2	1833.3	1780.7	1760.9	1767.5	1776.3
35°	4995.7	4968.3	4412.7	3130.7	2238.7	1815.7	1671.1	1626.1	1587.8	1579.0	1585.6
37.5°	5331.0	5320.0	4619.8	3061.6	2017.3	1674.4	1540.7	1481.5	1425.6	1394.9	1396.0
40°	5699.2	5688.2	4755.7	2955.3	1821.2	1551.6	1423.4	1345.6	1276.6	1220.7	1226.2
42.5°	6113.4	6048.7	4820.4	2803.0	1654.6	1447.5	1328.1	1222.9	1131.9	1080.4	1083.7
45°	6566.0	6420.2	4819.3	2609.1	1514.4	1352.2	1226.2	1077.2	992.8	944.6	942.4
47.5°	7045.9	6775.3	4760.1	2394.3	1378.5	1247.0	1068.4	954.4	898.5	869.0	862.4
50°	7541.2	7107.3	4659.3	2147.7	1239.3	1127.6	969.8	892.0	849.2	821.8	812.0
52.5°	8006.9	7408.6	4537.7	1868.3	1098.0	1011.4	925.9	865.7	820.7	790.1	776.9
55°	8439.8	7668.3	4365.6	1582.3	982.9	933.6	905.1	854.7	803.2	767.1	752.8
57.5°	8824.4	7837.1	4068.7	1313.8	900.7	879.9	883.2	836.1	776.9	746.2	726.5
60°	9144.3	7960.9	3629.2	1065.1	833.9	827.3	849.2	801.0	732.0	696.9	681.6
62.5°	9336.1	7958.7	3090.1	872.2	776.9	779.1	804.3	757.2	687.1	654.2	644.3
65°	9319.7	7763.6	2498.4	746.2	722.1	724.3	757.2	709.0	649.8	630.1	629.0
67.5°	8989.8	7288.1	1916.5	664.0	661.9	671.7	710.1	676.1	626.8	624.6	627.9
70°	8096.8	6300.8	1380.7	598.3	599.4	613.6	664.0	655.3	614.7	619.1	618.0
72.5°	6492.5	4803.9	927.0	529.3	530.4	553.4	620.2	638.8	602.7	660.8	669.5
75°	4324.0	2995.9	596.1	455.8	456.9	486.5	581.9	607.1	569.8	658.6	664.0
77.5°	2077.6	1346.7	431.7	383.5	383.5	410.9	503.0	543.5	485.4	511.7	469.0
80°	717.7	506.3	339.7	309.0	302.4	321.1	424.1	471.2	418.6	385.7	361.6
82.5°	282.7	263.0	272.9	240.0	218.1	230.1	329.8	389.0	307.9	278.3	277.2
85°	162.2	170.9	192.9	158.9	126.0	141.4	242.2	279.4	232.3	204.9	209.3
87.5°	43.8	60.3	88.8	82.2	57.0	60.3	115.1	154.5	133.7	103.0	106.3
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)