

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: P950257

Luminaire Tested: **GALN-SB4D-735-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950257  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4D-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

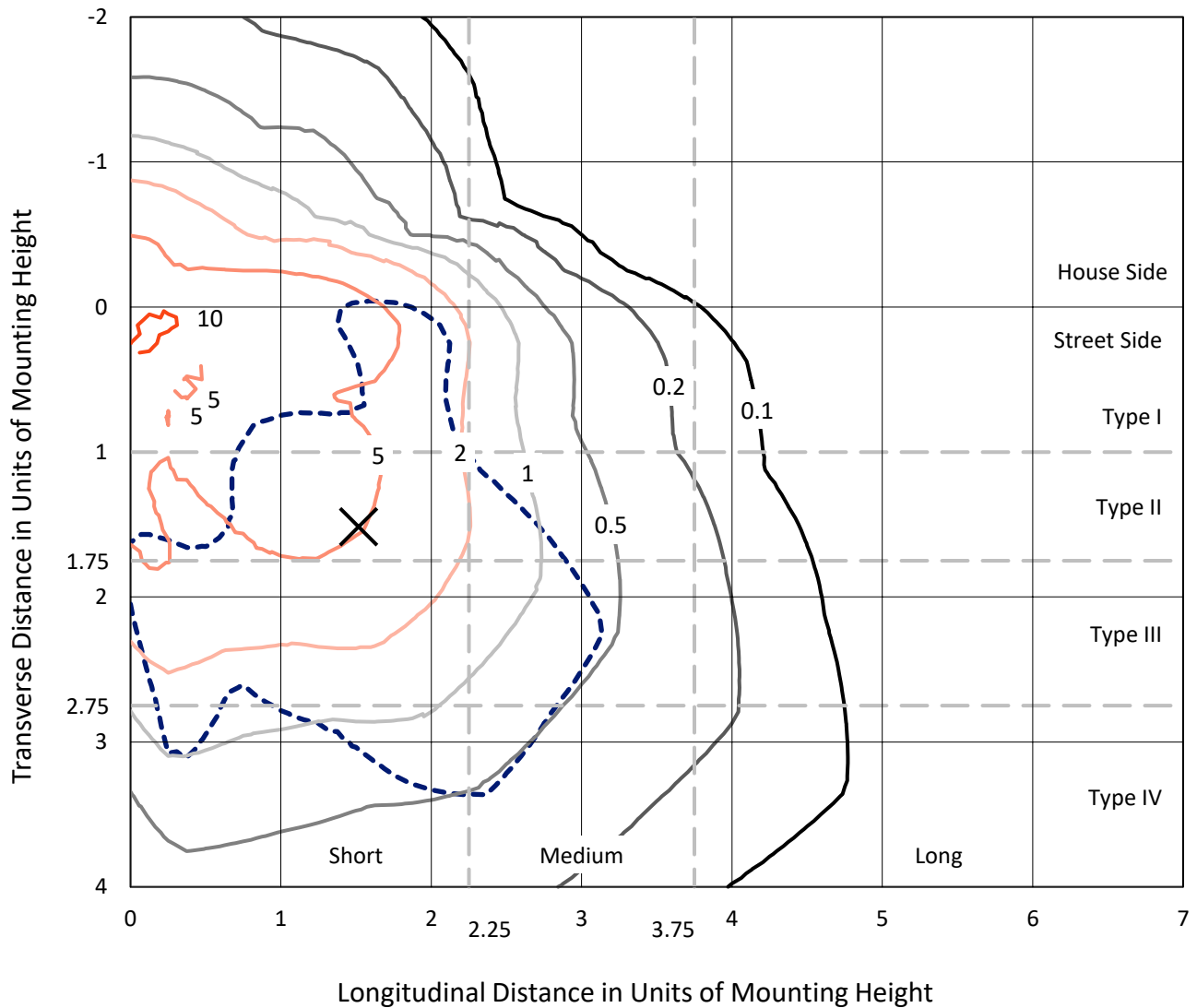
Lumens per Lamp: N/A  
Luminaire Lumens: 31125 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

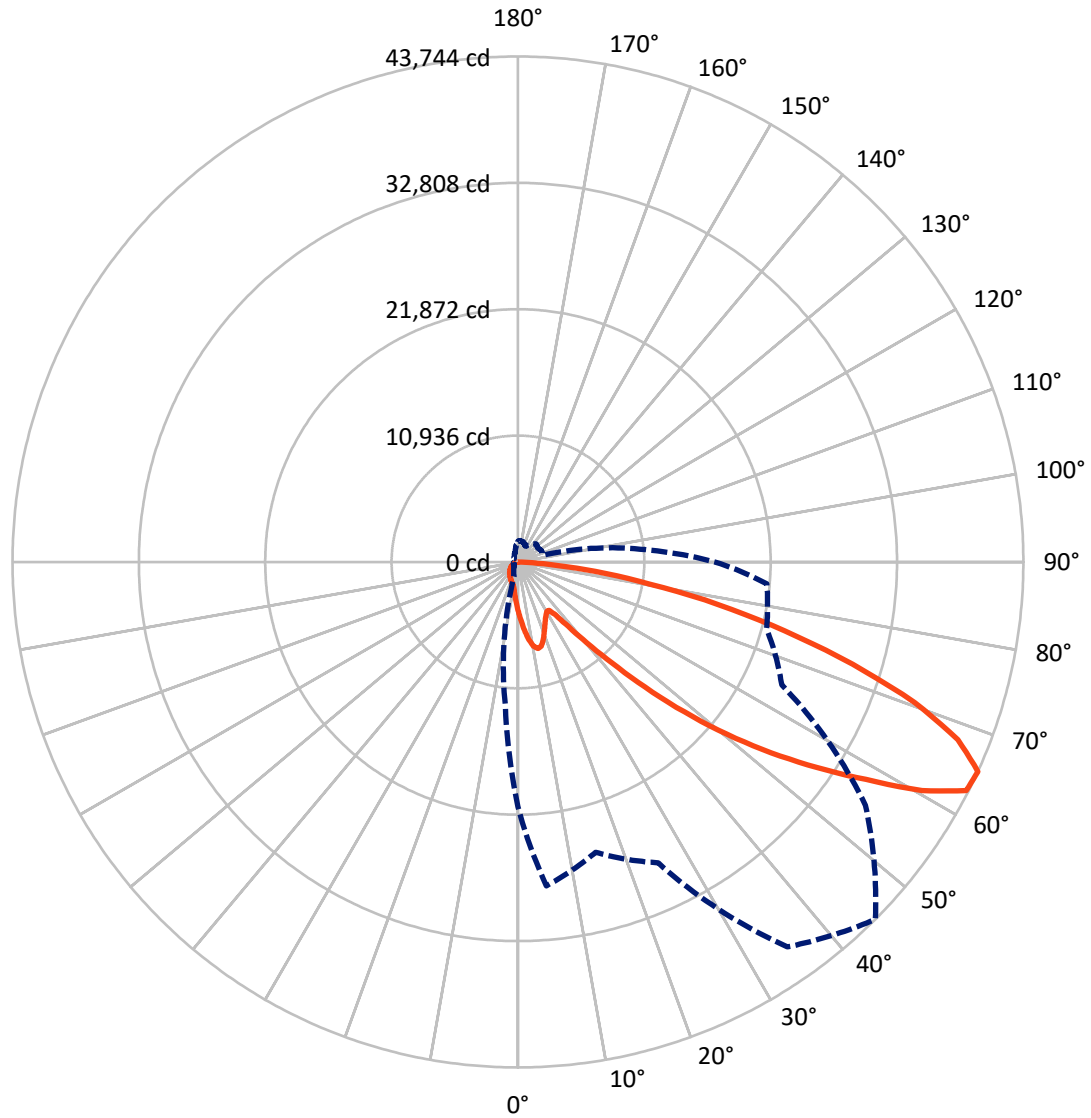
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6186.7	0.0	6186.7
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	24938.3	0.0	24938.3
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	31125.0	0.0	31125.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.3	1.4
10°-20°	1272.0	4.1
20°-30°	1873.9	6.0
30°-40°	2407.4	7.7
40°-50°	3893.5	12.5
50°-60°	6827.7	21.9
60°-70°	8543.3	27.4
70°-80°	4992.3	16.0
80°-90°	890.7	2.9
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°	31125.0	100.0
0°-180°	31125.0	100.0



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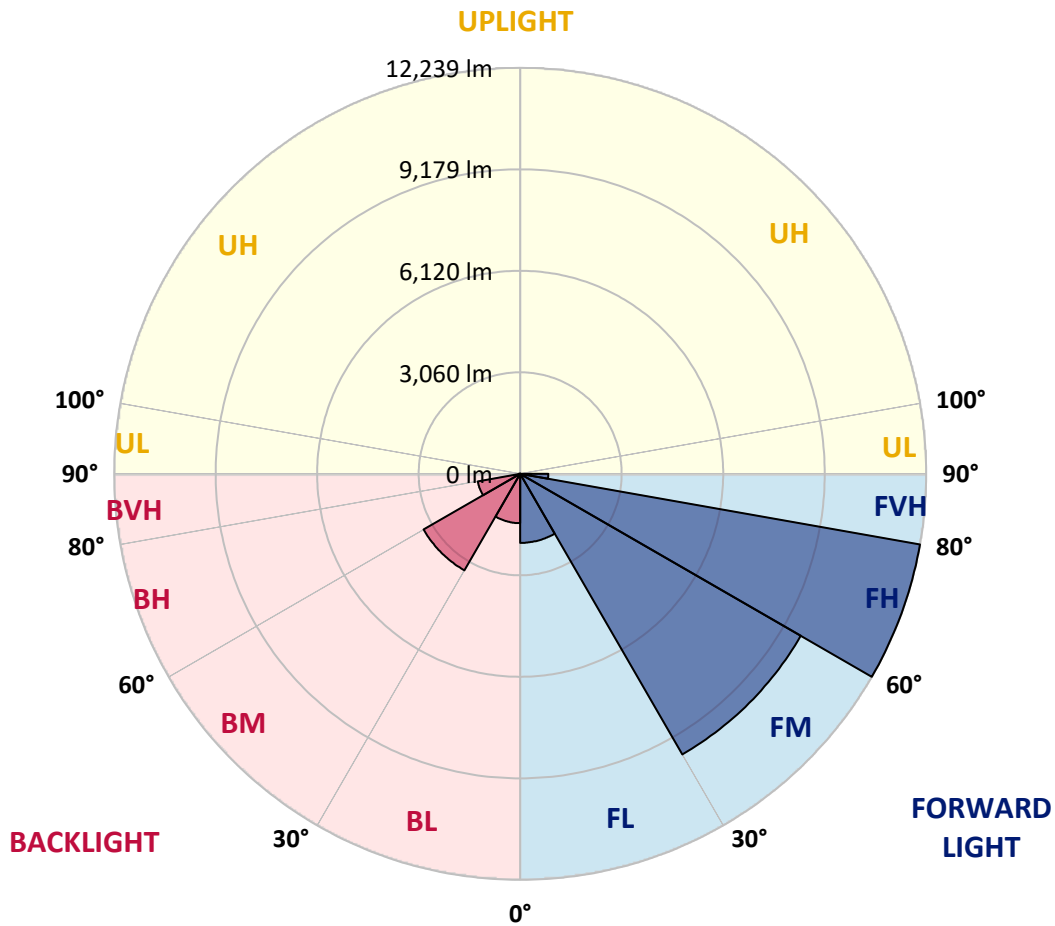
CATALOG NUMBER: GALN-SB4D-735-U-SLL-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2082.6	6.7			
FM (30°-60°)	9767.4	31.4			
FH (60°-80°)	12239.3	39.3			G5
FVH (80°-90°)	849.0	2.7			G5
BL (0°-30°)	1487.5	4.8	B3/2500		
BM (30°-60°)	3361.2	10.8	B3/5000		
BH (60°-80°)	1296.2	4.2	B3/2500		G3/2500
BVH (80°-90°)	41.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8
2.5°	4828.7	4865.2	4946.6	4989.5	5056.0	5060.3	5060.3	5002.4	5000.2	4882.3
5°	5396.9	5482.7	5675.7	5875.1	5918.0	5928.7	5907.2	5791.5	5705.7	5476.3
7.5°	5960.8	6125.9	6419.7	6685.6	6771.3	6771.3	6719.9	6531.2	6355.4	6023.0
10°	6428.3	6636.3	7035.1	7333.1	7431.8	7410.3	7305.2	7067.2	6824.9	6421.8
12.5°	6737.0	6970.8	7408.2	7648.3	7749.1	7693.3	7573.3	7341.7	7086.5	6662.0
15°	6891.4	7135.9	7515.4	7641.9	7614.0	7556.1	7541.1	7429.6	7236.6	6840.0
17.5°	6957.9	7185.2	7448.9	7369.6	7133.7	7088.7	7238.8	7380.3	7333.1	6994.3
20°	7020.1	7210.9	7290.2	6938.6	6526.9	6486.2	6773.5	7176.6	7382.4	7138.0
22.5°	7105.8	7223.8	7060.8	6484.0	6040.2	5945.8	6263.2	6870.0	7397.4	7320.3
25°	7223.8	7255.9	6807.8	6053.0	5607.0	5512.7	5808.6	6529.1	7371.7	7517.5
27.5°	7365.3	7298.8	6565.5	5692.8	5261.8	5173.9	5469.8	6201.0	7298.8	7714.8
30°	7549.7	7354.6	6325.4	5414.1	5015.3	4950.9	5236.1	5918.0	7208.8	7965.7
32.5°	7736.2	7378.1	6102.4	5251.1	4959.5	4983.1	5216.8	5765.7	7110.1	8205.8
35°	7937.8	7453.2	5993.0	5411.9	5424.8	5630.6	5727.1	5907.2	7095.1	8531.7
37.5°	8212.2	7620.4	6123.8	6211.7	6657.7	7084.4	7005.1	6599.8	7268.8	9018.5
40°	8606.8	7914.2	6694.2	7573.3	8488.8	9181.4	8879.1	7858.4	7800.6	9719.6
42.5°	9181.4	8381.6	7706.2	9237.2	10789.6	11930.3	11119.8	9481.6	8731.1	10720.9
45°	10030.5	9138.5	8930.5	10993.2	13626.3	15423.1	13737.8	11212.0	10034.8	12236.9
47.5°	11207.7	10251.4	10077.7	12843.7	17074.2	19398.5	16641.0	12815.8	11518.6	14303.9
50°	12770.8	11750.1	11164.8	14867.8	20854.4	23451.0	19542.1	14363.9	13218.9	16829.7
52.5°	14833.5	13840.7	12432.0	16795.4	24741.8	27417.7	22456.1	15723.3	15328.8	19760.8
55°	17646.7	16986.3	14164.5	18635.1	28627.0	31408.1	25256.4	17005.5	18116.2	23243.0
57.5°	21137.4	21609.1	16662.5	20768.6	32119.9	35520.6	28069.6	18798.1	21735.6	27136.8
60°	23388.8	27756.5	21446.2	23922.7	36088.8	40171.4	31924.8	22207.3	25539.4	28532.7
62.5°	22844.2	29712.0	27175.4	27949.5	39738.2	43552.7	35702.9	25631.6	26255.6	26476.4
65°	21173.9	28133.9	26006.8	28732.1	40662.4	43743.6	36712.8	25189.9	22271.7	21615.6
67.5°	18875.3	26262.0	23230.1	26656.5	38992.0	41076.2	34832.3	22282.4	17211.4	16220.8
70°	16394.5	24190.7	21407.6	24327.9	35807.9	36427.6	31635.3	19597.9	12659.3	10954.7
72.5°	14040.1	22033.7	20159.6	21941.5	31560.3	30278.1	27473.5	17224.3	9217.9	7901.3
75°	11632.2	18851.7	18382.1	19106.9	25974.7	23849.8	22827.0	14261.0	7234.5	5716.4
77.5°	8975.6	14730.6	15811.2	15300.9	18283.5	17715.3	17693.8	10716.6	5285.4	3814.5
80°	6143.1	10266.4	12352.7	10793.8	11865.9	11576.5	13326.1	7189.5	3833.8	2296.4
82.5°	3610.8	6250.3	8598.2	5225.4	6561.2	6734.9	7935.6	3497.2	2255.7	529.6
85°	1464.5	2468.0	3362.1	2045.6	3164.8	2669.5	3012.6	982.0	628.2	12.9
87.5°	368.8	789.1	553.2	229.4	366.7	336.6	265.9	120.1	25.7	0.0
90°	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°
4309.8	0°	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8
4869.4	2.5°	4785.8	4736.5	4614.3	4492.1	4393.4	4260.5	4172.6	4067.5	3966.7	3876.7
5426.9	5°	5291.9	5128.9	4905.9	4702.2	4494.2	4292.7	4093.3	3883.1	3690.1	3572.2
5898.7	7.5°	5703.5	5416.2	5120.3	4860.9	4610.0	4374.1	4110.4	3855.2	3552.9	3392.1
6258.9	10°	6010.2	5632.8	5244.7	4946.6	4693.6	4464.2	4241.2	3983.9	3619.4	3417.8
6477.6	12.5°	6211.7	5763.6	5309.0	4968.1	4685.0	4507.1	4408.4	4307.7	3945.3	3709.4
6638.4	15°	6351.1	5855.8	5354.0	4918.8	4571.4	4440.6	4539.2	4655.0	4423.5	4151.1
6805.7	17.5°	6503.3	5975.9	5373.3	4785.8	4350.6	4294.8	4550.0	4818.0	4807.3	4537.1
6964.3	20°	6664.1	6080.9	5360.5	4571.4	4082.5	4131.8	4457.8	4768.7	4899.5	4753.7
7146.6	22.5°	6829.2	6181.7	5311.2	4292.7	3831.7	3986.0	4312.0	4584.3	4738.7	4693.6
7369.6	25°	7037.2	6323.2	5238.2	3992.5	3623.7	3838.1	4142.6	4363.4	4470.6	4468.5
7609.7	27.5°	7285.9	6511.9	5199.7	3750.2	3475.7	3670.8	3941.0	4138.3	4213.3	4213.3
7907.8	30°	7575.4	6734.9	5156.8	3591.5	3390.0	3497.2	3707.3	3900.3	3975.3	3975.3
8233.7	32.5°	7897.0	6949.3	5053.8	3495.0	3325.6	3327.8	3460.7	3636.5	3726.6	3739.5
8641.1	35°	8283.0	7178.7	4828.7	3417.8	3250.6	3162.7	3227.0	3372.8	3480.0	3507.9
9222.1	37.5°	8789.0	7459.6	4507.1	3304.2	3134.8	2989.0	3004.0	3115.5	3233.4	3276.3
10024.1	40°	9468.7	7789.8	4172.6	3141.2	2971.8	2798.2	2791.7	2873.2	2989.0	3036.2
11109.0	42.5°	10367.1	8186.5	3853.1	2984.7	2774.6	2596.6	2585.9	2650.2	2751.0	2800.3
12541.4	45°	11516.4	8673.2	3578.6	2862.5	2581.6	2405.8	2401.5	2455.1	2543.0	2594.5
14374.6	47.5°	13113.8	9160.0	3392.1	2798.2	2429.4	2249.3	2257.8	2305.0	2384.3	2420.8
16748.2	50°	15195.9	9307.9	3297.8	2798.2	2347.9	2109.9	2152.8	2191.4	2251.4	2272.8
19593.6	52.5°	17194.2	8819.0	3212.0	2815.3	2358.6	1992.0	2084.2	2112.0	2163.5	2172.1
22230.9	55°	18174.1	7581.8	3094.1	2819.6	2425.1	1891.2	2028.4	2079.9	2099.2	2097.0
23761.9	57.5°	17837.5	6130.2	2894.7	2802.5	2470.1	1826.8	1959.8	2058.4	2071.3	2052.0
23470.3	60°	16656.0	4513.5	2742.4	2675.9	2453.0	1807.5	1854.7	2011.2	2030.5	2004.8
21223.2	62.5°	14674.8	3132.7	2624.5	2397.2	2377.9	1801.1	1689.6	1908.3	1955.5	1919.0
17059.2	65°	11552.9	2212.8	2260.0	2101.3	2214.9	1766.8	1518.1	1784.0	1848.3	1792.5
12376.2	67.5°	7817.7	1597.4	1831.1	1904.0	1951.2	1689.6	1393.7	1642.4	1728.2	1655.3
7942.1	70°	4221.9	1121.4	1209.3	1603.9	1657.5	1556.7	1282.2	1498.8	1597.4	1518.1
5645.6	72.5°	2493.7	806.2	847.0	1288.7	1380.9	1370.1	1157.9	1331.5	1451.6	1357.3
3896.0	75°	1374.4	544.6	604.7	934.9	1121.4	1057.1	994.9	1127.8	1250.1	1157.9
2442.2	77.5°	615.4	325.9	420.3	613.2	881.3	724.7	769.8	879.1	992.8	896.3
1359.4	80°	238.0	182.3	278.7	334.5	641.1	401.0	495.3	647.5	729.0	651.8
295.9	82.5°	30.0	81.5	120.1	130.8	373.1	212.3	287.3	407.4	401.0	347.4
0.0	85°	0.0	15.0	17.2	8.6	160.8	77.2	94.3	132.9	124.4	94.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0
0.0	90°	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):**

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
4309.8	0°	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8
3859.5	2.5°	3754.5	3677.3	3638.7	3606.5	3636.5	3653.7	3653.7	3726.6	3769.5	3786.6
3497.2	5°	3308.5	3164.8	3068.3	3010.4	3029.7	3051.2	3074.8	3167.0	3229.1	3269.9
3246.3	7.5°	2956.8	2738.1	2603.0	2532.3	2543.0	2558.0	2577.3	2667.4	2729.6	2783.2
3199.1	10°	2783.2	2474.4	2296.4	2210.7	2195.6	2187.1	2180.6	2234.2	2281.4	2324.3
3392.1	12.5°	2791.7	2360.8	2144.2	2039.1	1994.1	1942.6	1901.9	1910.5	1940.5	1994.1
3737.3	15°	2901.1	2324.3	2064.9	1934.1	1859.0	1799.0	1749.7	1738.9	1749.7	1758.2
4131.8	17.5°	3049.0	2320.0	1996.2	1833.3	1756.1	1706.8	1661.7	1646.7	1648.9	1659.6
4393.4	20°	3167.0	2307.1	1919.0	1736.8	1668.2	1625.3	1580.3	1565.3	1569.5	1571.7
4419.2	22.5°	3229.1	2287.8	1833.3	1640.3	1582.4	1539.5	1498.8	1496.6	1496.6	1509.5
4279.8	25°	3229.1	2247.1	1756.1	1548.1	1496.6	1458.0	1408.7	1417.3	1421.6	1438.7
4063.2	27.5°	3152.0	2169.9	1693.9	1468.8	1415.2	1376.6	1331.5	1342.3	1348.7	1368.0
3848.8	30°	3053.3	2077.7	1623.1	1393.7	1331.5	1303.7	1265.1	1269.4	1277.9	1299.4
3649.4	32.5°	2948.3	1968.4	1565.3	1318.7	1256.5	1235.1	1192.2	1198.6	1207.2	1230.8
3452.1	35°	2832.5	1839.7	1496.6	1250.1	1187.9	1170.7	1121.4	1125.7	1138.6	1164.3
3239.9	37.5°	2710.3	1734.6	1428.0	1183.6	1119.3	1102.1	1050.7	1054.9	1069.9	1100.0
3016.9	40°	2590.2	1631.7	1355.1	1112.8	1048.5	1033.5	977.7	982.0	999.2	1031.4
2791.7	42.5°	2459.4	1552.4	1260.8	1039.9	971.3	956.3	904.8	911.3	930.6	962.7
2583.7	45°	2302.9	1500.9	1155.7	971.3	894.1	879.1	831.9	844.8	866.3	898.4
2405.8	47.5°	2142.0	1479.5	1067.8	898.4	814.8	801.9	763.3	784.8	808.4	834.1
2253.5	50°	1987.7	1451.6	977.7	829.8	746.2	733.3	707.6	735.5	759.0	782.6
2144.2	52.5°	1811.8	1391.6	896.3	769.8	688.3	684.0	671.1	696.9	718.3	739.7
2049.8	55°	1629.6	1295.1	825.5	716.2	639.0	643.3	636.8	658.3	675.4	694.7
1964.1	57.5°	1470.9	1172.9	769.8	658.3	596.1	608.9	600.4	611.1	621.8	645.4
1861.2	60°	1310.1	1027.1	707.6	589.7	553.2	568.2	544.6	542.5	546.8	553.2
1708.9	62.5°	1093.5	874.8	630.4	529.6	506.0	512.5	467.4	433.1	433.1	439.6
1496.6	65°	879.1	733.3	544.6	461.0	441.7	437.4	373.1	325.9	321.6	340.9
1250.1	67.5°	722.6	608.9	458.9	383.8	370.9	375.2	328.1	280.9	276.6	298.0
1018.5	70°	598.2	491.0	366.7	295.9	308.8	328.1	280.9	235.9	229.4	248.7
827.7	72.5°	476.0	383.8	280.9	218.7	255.2	278.7	229.4	186.5	182.3	199.4
639.0	75°	349.5	274.5	190.8	158.7	197.3	218.7	167.2	132.9	126.5	141.5
426.7	77.5°	216.6	154.4	120.1	94.3	135.1	145.8	87.9	77.2	75.0	85.8
259.4	80°	100.8	66.5	57.9	32.2	49.3	57.9	36.5	40.7	42.9	51.5
130.8	82.5°	27.9	10.7	2.1	0.0	0.0	17.2	8.6	17.2	21.4	32.2
10.7	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	10.7	19.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6
0.0	90°	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):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
4309.8	0°	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8
3906.7	2.5°	3996.8	4082.5	4219.8	4361.3	4500.6	4642.2	4779.4	4828.7
3456.4	5°	3625.8	3823.1	4095.4	4387.0	4687.2	4991.7	5270.4	5396.9
2991.1	7.5°	3212.0	3495.0	3904.6	4361.3	4839.4	5317.6	5757.1	5960.8
2530.1	10°	2770.3	3128.4	3595.8	4213.3	4899.5	5559.9	6164.5	6428.3
2124.9	12.5°	2350.0	2725.3	3242.0	3981.8	4852.3	5699.2	6426.1	6737.0
1839.7	15°	1998.4	2330.7	2888.2	3707.3	4700.1	5707.8	6550.5	6891.4
1681.0	17.5°	1734.6	1951.2	2528.0	3402.8	4500.6	5628.5	6593.4	6957.9
1595.3	20°	1603.9	1663.9	2060.6	3012.6	4314.1	5553.4	6636.3	7020.1
1526.7	22.5°	1526.7	1541.7	1685.3	2508.7	4091.1	5529.9	6711.3	7105.8
1464.5	25°	1464.5	1468.8	1507.4	1987.7	3750.2	5514.8	6827.1	7223.8
1400.2	27.5°	1402.3	1402.3	1423.7	1601.7	3287.0	5450.5	6977.2	7365.3
1335.8	30°	1340.1	1340.1	1355.1	1417.3	2744.6	5324.0	7157.3	7549.7
1271.5	32.5°	1275.8	1275.8	1288.7	1333.7	2191.4	5165.3	7322.4	7736.2
1205.0	35°	1211.5	1207.2	1224.3	1271.5	1743.2	4963.8	7487.5	7937.8
1138.6	37.5°	1142.9	1140.7	1157.9	1211.5	1505.2	4730.1	7611.9	8212.2
1072.1	40°	1069.9	1069.9	1089.2	1147.1	1436.6	4436.3	7809.1	8606.8
1003.5	42.5°	1003.5	999.2	1020.6	1091.4	1385.1	4155.4	8162.9	9181.4
941.3	45°	939.2	930.6	949.9	1037.8	1295.1	4056.8	8823.3	10030.5
881.3	47.5°	879.1	857.7	874.8	973.5	1213.6	4425.6	9904.0	11207.7
827.7	50°	829.8	789.1	804.1	909.1	1151.4	5225.4	11306.3	12770.8
778.3	52.5°	778.3	724.7	733.3	829.8	1095.7	5986.6	12826.5	14833.5
729.0	55°	724.7	664.7	669.0	750.5	1016.3	6100.2	14310.3	17646.7
673.3	57.5°	664.7	608.9	608.9	677.6	958.5	5287.6	15451.0	21137.4
604.7	60°	598.2	561.8	551.1	619.7	1009.9	3730.9	15584.0	23388.8
516.7	62.5°	525.3	506.0	491.0	563.9	1048.5	2210.7	14514.0	22844.2
407.4	65°	441.7	437.4	426.7	619.7	883.4	1305.8	12459.9	21173.9
347.4	67.5°	370.9	364.5	364.5	649.7	671.1	821.2	9734.6	18875.3
295.9	70°	319.5	295.9	295.9	491.0	407.4	568.2	6797.1	16394.5
244.4	72.5°	268.0	242.3	225.1	392.4	304.5	416.0	4247.6	14040.1
186.5	75°	214.4	195.1	173.7	259.4	227.3	315.2	2468.0	11632.2
117.9	77.5°	154.4	145.8	122.2	190.8	165.1	227.3	1468.8	8975.6
72.9	80°	79.3	81.5	77.2	109.4	111.5	154.4	836.2	6143.1
47.2	82.5°	47.2	36.5	40.7	53.6	64.3	87.9	315.2	3610.8
34.3	85°	30.0	19.3	19.3	25.7	32.2	34.3	96.5	1464.5
17.2	87.5°	15.0	6.4	8.6	12.9	10.7	8.6	4.3	368.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)