

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: P947401

Luminaire Tested: **GALN-SB2D-735-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947401  
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-SB2D-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

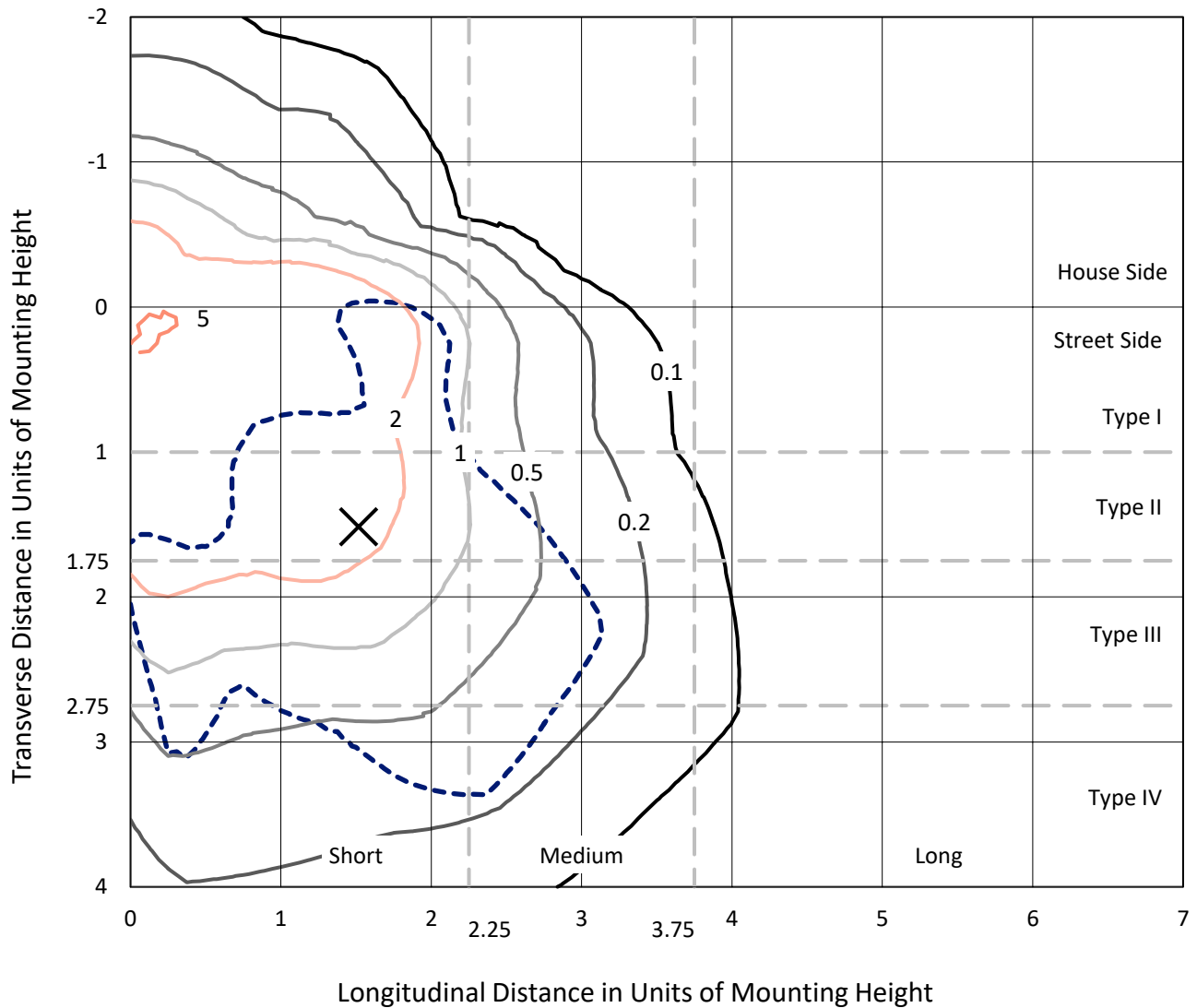
Lumens per Lamp: N/A  
Luminaire Lumens: 15531 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

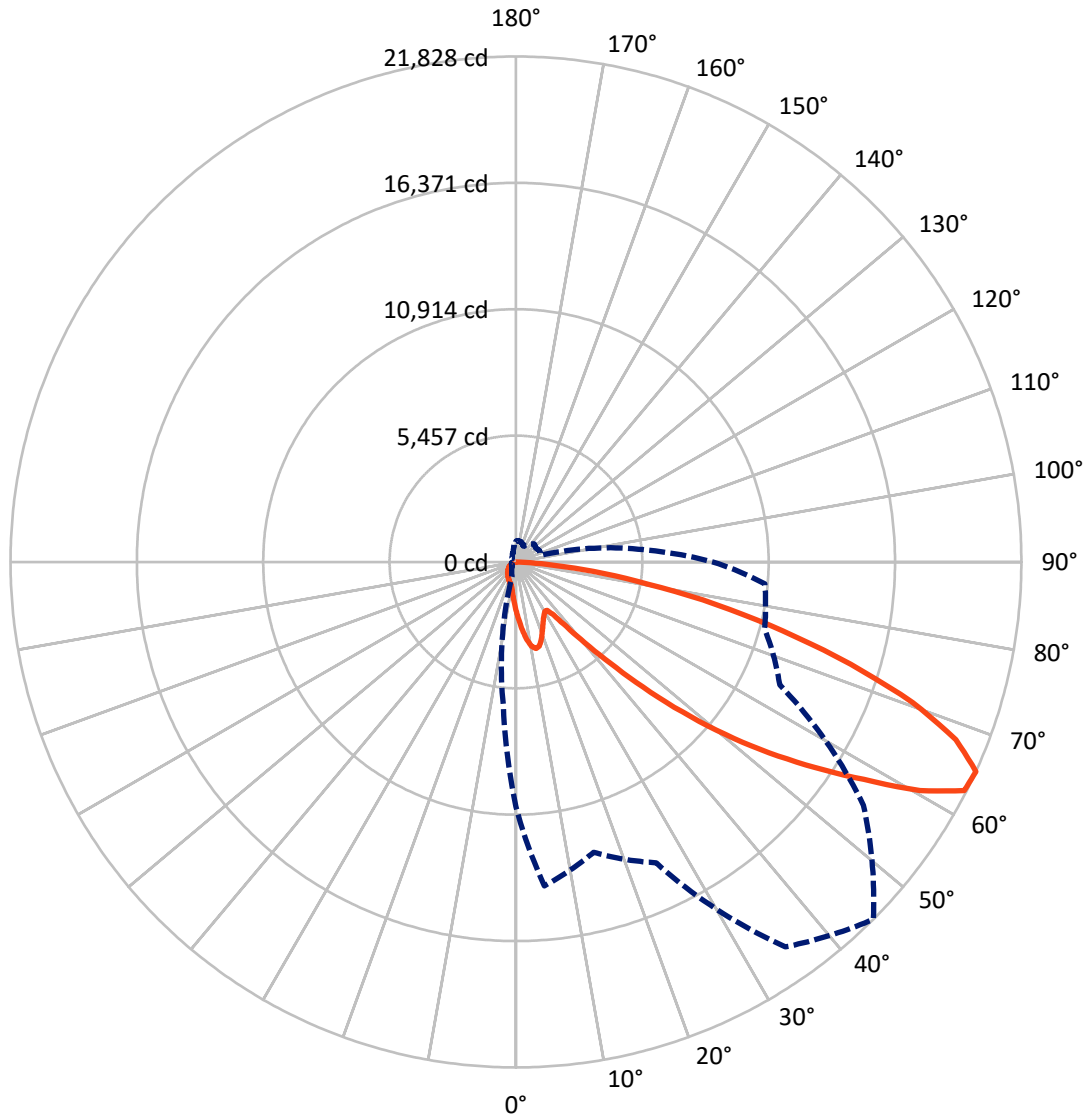
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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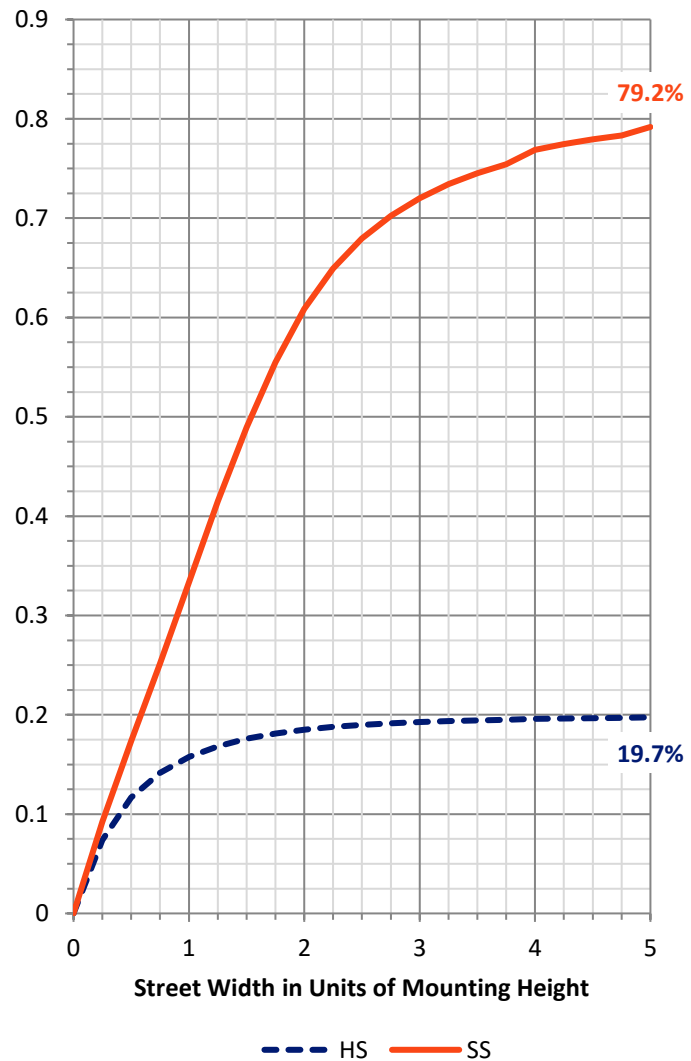
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3087.1	0.0	3087.1
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	12443.9	0.0	12443.9
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	15531.0	0.0	15531.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.7	1.4
10°-20°	634.7	4.1
20°-30°	935.0	6.0
30°-40°	1201.3	7.7
40°-50°	1942.8	12.5
50°-60°	3406.9	21.9
60°-70°	4263.0	27.4
70°-80°	2491.1	16.0
80°-90°	444.4	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°	15531.0	100.0
0°-180°	15531.0	100.0

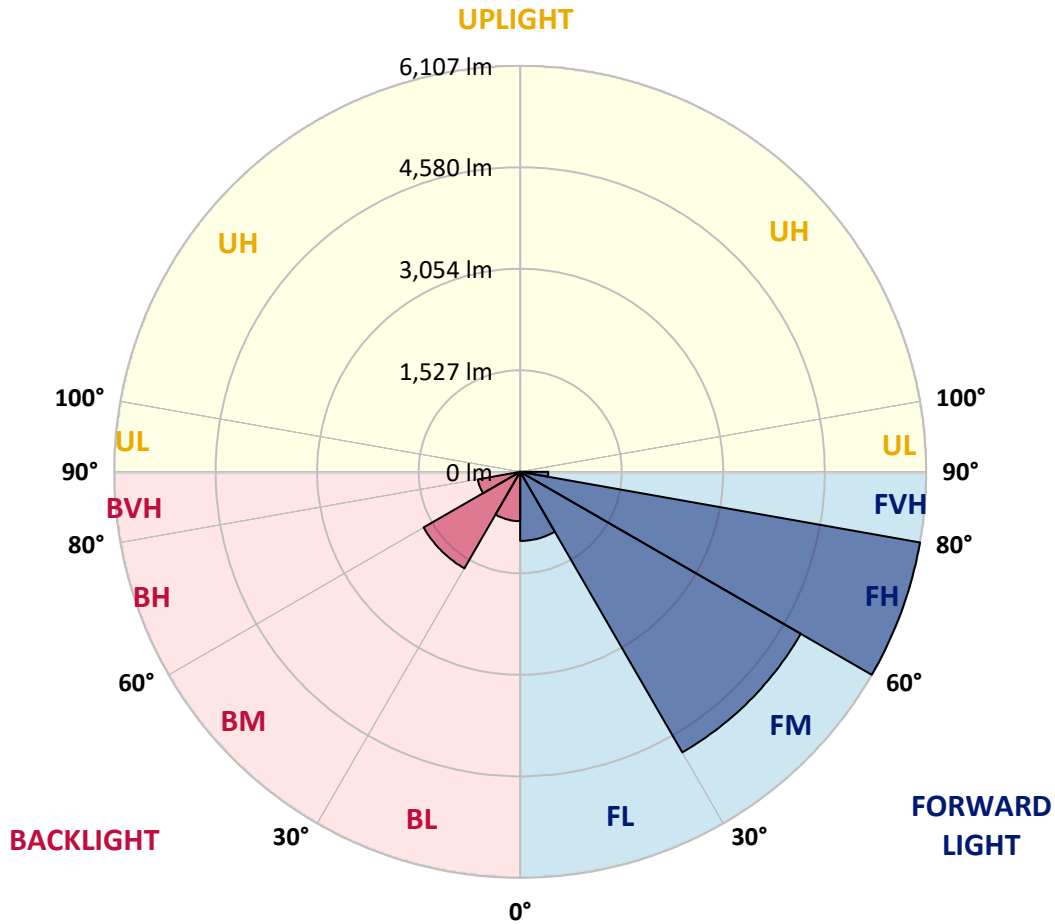


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1039.2	6.7			
FM (30°-60°)	4873.8	31.4			
FH (60°-80°)	6107.3	39.3			G3/7500
FVH (80°-90°)	423.6	2.7			G3/500
BL (0°-30°)	742.3	4.8	B2/1000		
BM (30°-60°)	1677.2	10.8	B2/2500		
BH (60°-80°)	646.8	4.2	B2/1000		G2/1000
BVH (80°-90°)	20.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5
2.5°	2409.5	2427.7	2468.3	2489.7	2522.9	2525.0	2525.0	2496.1	2495.1	2436.2
5°	2693.0	2735.8	2832.1	2931.6	2953.0	2958.3	2947.6	2889.9	2847.1	2732.6
7.5°	2974.4	3056.8	3203.4	3336.0	3378.8	3378.8	3353.1	3259.0	3171.3	3005.4
10°	3207.6	3311.4	3510.4	3659.1	3708.4	3697.7	3645.2	3526.5	3405.6	3204.4
12.5°	3361.7	3478.3	3696.6	3816.4	3866.7	3838.9	3779.0	3663.4	3536.1	3324.3
15°	3438.7	3560.7	3750.1	3813.2	3799.3	3770.4	3762.9	3707.3	3611.0	3413.1
17.5°	3471.9	3585.3	3716.9	3677.3	3559.6	3537.2	3612.1	3682.7	3659.1	3490.1
20°	3502.9	3598.2	3637.7	3462.3	3256.8	3236.5	3379.9	3581.0	3683.7	3561.8
22.5°	3545.7	3604.6	3523.3	3235.4	3014.0	2966.9	3125.2	3428.0	3691.2	3652.7
25°	3604.6	3620.6	3397.0	3020.4	2797.9	2750.8	2898.4	3257.9	3678.4	3751.2
27.5°	3675.2	3642.0	3276.1	2840.6	2625.6	2581.7	2729.4	3094.2	3642.0	3849.6
30°	3767.2	3669.8	3156.3	2701.6	2502.6	2470.5	2612.8	2953.0	3597.1	3974.8
32.5°	3860.3	3681.6	3045.0	2620.2	2474.7	2486.5	2603.1	2877.0	3547.9	4094.6
35°	3960.9	3719.1	2990.4	2700.5	2706.9	2809.6	2857.8	2947.6	3540.4	4257.2
37.5°	4097.8	3802.5	3055.7	3099.6	3322.1	3535.0	3495.4	3293.2	3627.0	4500.1
40°	4294.7	3949.1	3340.3	3779.0	4235.8	4581.4	4430.6	3921.3	3892.4	4850.0
42.5°	4581.4	4182.3	3845.3	4609.2	5383.9	5953.1	5548.6	4731.2	4356.7	5349.6
45°	5005.1	4560.0	4456.2	5485.5	6799.4	7696.0	6855.0	5594.6	5007.2	6106.1
47.5°	5592.5	5115.3	5028.6	6408.8	8519.8	9679.6	8303.7	6394.9	5747.6	7137.5
50°	6372.5	5863.2	5571.1	7418.9	10406.1	11701.8	9751.3	7167.4	6596.1	8397.8
52.5°	7401.7	6906.4	6203.4	8380.7	12345.8	13681.1	11205.3	7845.8	7648.9	9860.4
55°	8805.5	8475.9	7067.9	9298.7	14284.6	15672.2	12602.6	8485.6	9039.8	11598.0
57.5°	10547.3	10782.7	8314.4	10363.3	16027.5	17724.4	14006.4	9380.0	10845.8	13541.0
60°	11670.7	13850.2	10701.4	11937.1	18007.9	20045.0	15930.1	11081.2	12743.9	14237.5
62.5°	11399.0	14825.9	13560.2	13946.5	19828.9	21732.3	17815.3	12789.9	13101.2	13211.4
65°	10565.5	14038.5	12977.1	14337.0	20290.0	21827.5	18319.2	12569.5	11113.3	10785.9
67.5°	9418.5	13104.4	11591.6	13301.3	19456.6	20496.5	17380.9	11118.6	8588.3	8094.0
70°	8180.6	12070.9	10682.1	12139.4	17867.7	18176.9	15785.7	9779.1	6316.8	5466.2
72.5°	7005.9	10994.5	10059.4	10948.5	15748.2	15108.4	13708.9	8594.7	4599.6	3942.7
75°	5804.3	9406.8	9172.5	9534.1	12961.1	11900.8	11390.4	7116.1	3609.9	2852.4
77.5°	4478.7	7350.4	7889.6	7635.0	9123.2	8839.7	8829.0	5347.5	2637.4	1903.4
80°	3065.3	5122.8	6163.8	5386.0	5921.0	5776.5	6649.6	3587.5	1913.0	1145.9
82.5°	1801.8	3118.8	4290.4	2607.4	3274.0	3360.6	3959.8	1745.0	1125.6	264.3
85°	730.8	1231.5	1677.6	1020.7	1579.2	1332.1	1503.2	490.0	313.5	6.4
87.5°	184.0	393.7	276.0	114.5	183.0	168.0	132.7	59.9	12.8	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°
2150.5	0°	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5
2429.8	2.5°	2388.1	2363.5	2302.5	2241.5	2192.3	2125.9	2082.1	2029.6	1979.4	1934.4
2708.0	5°	2640.6	2559.3	2448.0	2346.3	2242.6	2142.0	2042.5	1937.6	1841.3	1782.5
2943.4	7.5°	2846.0	2702.6	2555.0	2425.5	2300.3	2182.6	2051.0	1923.7	1772.9	1692.6
3123.1	10°	2999.0	2810.7	2617.0	2468.3	2342.1	2227.6	2116.3	1987.9	1806.0	1705.5
3232.2	12.5°	3099.6	2876.0	2649.1	2479.0	2337.8	2249.0	2199.8	2149.5	1968.7	1851.0
3312.5	15°	3169.1	2922.0	2671.6	2454.4	2281.1	2215.8	2265.0	2322.8	2207.3	2071.4
3395.9	17.5°	3245.1	2981.9	2681.2	2388.1	2170.9	2143.1	2270.4	2404.1	2398.8	2264.0
3475.1	20°	3325.3	3034.3	2674.8	2281.1	2037.1	2061.7	2224.4	2379.5	2444.8	2372.0
3566.1	22.5°	3407.7	3084.6	2650.2	2142.0	1912.0	1989.0	2151.6	2287.5	2364.5	2342.1
3677.3	25°	3511.5	3155.2	2613.8	1992.2	1808.2	1915.2	2067.1	2177.3	2230.8	2229.7
3797.2	27.5°	3635.6	3249.4	2594.6	1871.3	1734.3	1831.7	1966.5	2065.0	2102.4	2102.4
3945.9	30°	3780.0	3360.6	2573.2	1792.1	1691.5	1745.0	1849.9	1946.2	1983.6	1983.6
4108.5	32.5°	3940.5	3467.6	2521.8	1744.0	1659.5	1660.5	1726.9	1814.6	1859.5	1865.9
4311.8	35°	4133.1	3582.1	2409.5	1705.5	1622.0	1578.1	1610.2	1683.0	1736.5	1750.4
4601.7	37.5°	4385.6	3722.3	2249.0	1648.8	1564.2	1491.5	1499.0	1554.6	1613.4	1634.8
5001.9	40°	4724.8	3887.0	2082.1	1567.4	1482.9	1396.3	1393.0	1433.7	1491.5	1515.0
5543.3	42.5°	5173.1	4085.0	1922.7	1489.3	1384.5	1295.7	1290.3	1322.4	1372.7	1397.3
6258.0	45°	5746.6	4327.8	1785.7	1428.3	1288.2	1200.5	1198.3	1225.1	1268.9	1294.6
7172.8	47.5°	6543.7	4570.7	1692.6	1396.3	1212.2	1122.3	1126.6	1150.2	1189.8	1207.9
8357.2	50°	7582.5	4644.5	1645.5	1396.3	1171.6	1052.8	1074.2	1093.5	1123.4	1134.1
9777.0	52.5°	8579.7	4400.6	1602.7	1404.8	1176.9	994.0	1040.0	1053.9	1079.6	1083.8
11093.0	55°	9068.7	3783.3	1543.9	1406.9	1210.1	943.7	1012.1	1037.8	1047.5	1046.4
11856.9	57.5°	8900.7	3058.9	1444.4	1398.4	1232.6	911.6	977.9	1027.1	1033.5	1023.9
11711.4	60°	8311.2	2252.2	1368.4	1335.3	1224.0	901.9	925.5	1003.6	1013.2	1000.4
10590.1	62.5°	7322.6	1563.2	1309.6	1196.2	1186.5	898.7	843.1	952.2	975.8	957.6
8512.3	65°	5764.7	1104.2	1127.7	1048.5	1105.2	881.6	757.5	890.2	922.3	894.5
6175.6	67.5°	3900.9	797.1	913.7	950.1	973.6	843.1	695.5	819.6	862.4	826.0
3963.0	70°	2106.7	559.6	603.4	800.3	827.1	776.8	639.8	747.9	797.1	757.5
2817.1	72.5°	1244.3	402.3	422.6	643.0	689.0	683.7	577.8	664.4	724.3	677.3
1944.1	75°	685.8	271.8	301.7	466.5	559.6	527.5	496.4	562.8	623.8	577.8
1218.6	77.5°	307.1	162.6	209.7	306.0	439.7	361.6	384.1	438.7	495.4	447.2
678.3	80°	118.8	90.9	139.1	166.9	319.9	200.1	247.2	323.1	363.8	325.3
147.6	82.5°	15.0	40.7	59.9	65.3	186.2	105.9	143.4	203.3	200.1	173.3
0.0	85°	0.0	7.5	8.6	4.3	80.2	38.5	47.1	66.3	62.1	47.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	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°
2150.5	0°	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5
1925.9	2.5°	1873.4	1834.9	1815.7	1799.6	1814.6	1823.1	1823.1	1859.5	1880.9	1889.5
1745.0	5°	1650.9	1579.2	1531.1	1502.2	1511.8	1522.5	1534.3	1580.3	1611.3	1631.6
1619.9	7.5°	1475.4	1366.3	1298.9	1263.6	1268.9	1276.4	1286.0	1331.0	1362.0	1388.8
1596.3	10°	1388.8	1234.7	1145.9	1103.1	1095.6	1091.3	1088.1	1114.9	1138.4	1159.8
1692.6	12.5°	1393.0	1178.0	1069.9	1017.5	995.0	969.4	949.0	953.3	968.3	995.0
1864.9	15°	1447.6	1159.8	1030.3	965.1	927.6	897.7	873.1	867.7	873.1	877.3
2061.7	17.5°	1521.4	1157.7	996.1	914.8	876.3	851.7	829.2	821.7	822.8	828.1
2192.3	20°	1580.3	1151.2	957.6	866.6	832.4	811.0	788.5	781.0	783.2	784.3
2205.1	22.5°	1611.3	1141.6	914.8	818.5	789.6	768.2	747.9	746.8	746.8	753.2
2135.6	25°	1611.3	1121.3	876.3	772.5	746.8	727.5	702.9	707.2	709.4	717.9
2027.5	27.5°	1572.8	1082.8	845.2	732.9	706.1	686.9	664.4	669.8	673.0	682.6
1920.5	30°	1523.6	1036.8	809.9	695.5	664.4	650.5	631.3	633.4	637.7	648.4
1821.0	32.5°	1471.1	982.2	781.0	658.0	627.0	616.3	594.9	598.1	602.4	614.1
1722.6	35°	1413.4	918.0	746.8	623.8	592.7	584.2	559.6	561.7	568.1	581.0
1616.7	37.5°	1352.4	865.6	712.6	590.6	558.5	549.9	524.3	526.4	533.9	548.9
1505.4	40°	1292.5	814.2	676.2	555.3	523.2	515.7	487.9	490.0	498.6	514.6
1393.0	42.5°	1227.2	774.6	629.1	518.9	484.7	477.2	451.5	454.7	464.3	480.4
1289.3	45°	1149.1	748.9	576.7	484.7	446.2	438.7	415.1	421.5	432.2	448.3
1200.5	47.5°	1068.9	738.2	532.8	448.3	406.6	400.2	380.9	391.6	403.4	416.2
1124.5	50°	991.8	724.3	487.9	414.1	372.3	365.9	353.1	367.0	378.8	390.5
1069.9	52.5°	904.1	694.4	447.2	384.1	343.4	341.3	334.9	347.7	358.4	369.1
1022.8	55°	813.1	646.2	411.9	357.4	318.8	321.0	317.8	328.5	337.0	346.7
980.1	57.5°	734.0	585.2	384.1	328.5	297.4	303.9	299.6	304.9	310.3	322.0
928.7	60°	653.7	512.5	353.1	294.2	276.0	283.5	271.8	270.7	272.8	276.0
852.7	62.5°	545.7	436.5	314.6	264.3	252.5	255.7	233.2	216.1	216.1	219.3
746.8	65°	438.7	365.9	271.8	230.0	220.4	218.3	186.2	162.6	160.5	170.1
623.8	67.5°	360.6	303.9	229.0	191.5	185.1	187.2	163.7	140.2	138.0	148.7
508.2	70°	298.5	245.0	183.0	147.6	154.1	163.7	140.2	117.7	114.5	124.1
413.0	72.5°	237.5	191.5	140.2	109.1	127.3	139.1	114.5	93.1	90.9	99.5
318.8	75°	174.4	137.0	95.2	79.2	98.4	109.1	83.5	66.3	63.1	70.6
212.9	77.5°	108.1	77.0	59.9	47.1	67.4	72.8	43.9	38.5	37.4	42.8
129.5	80°	50.3	33.2	28.9	16.0	24.6	28.9	18.2	20.3	21.4	25.7
65.3	82.5°	13.9	5.3	1.1	0.0	0.0	8.6	4.3	8.6	10.7	16.0
5.3	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	5.3	9.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
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°
2150.5	0°	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5
1949.4	2.5°	1994.3	2037.1	2105.6	2176.2	2245.8	2316.4	2384.9	2409.5
1724.7	5°	1809.2	1907.7	2043.6	2189.1	2338.9	2490.8	2629.9	2693.0
1492.5	7.5°	1602.7	1744.0	1948.3	2176.2	2414.8	2653.4	2872.7	2974.4
1262.5	10°	1382.3	1561.0	1794.3	2102.4	2444.8	2774.3	3076.0	3207.6
1060.3	12.5°	1172.6	1359.9	1617.7	1986.8	2421.2	2843.9	3206.6	3361.7
918.0	15°	997.2	1163.0	1441.2	1849.9	2345.3	2848.1	3268.6	3438.7
838.8	17.5°	865.6	973.6	1261.4	1698.0	2245.8	2808.5	3290.0	3471.9
796.0	20°	800.3	830.3	1028.2	1503.2	2152.7	2771.1	3311.4	3502.9
761.8	22.5°	761.8	769.3	841.0	1251.8	2041.4	2759.3	3348.9	3545.7
730.8	25°	730.8	732.9	752.2	991.8	1871.3	2751.8	3406.6	3604.6
698.7	27.5°	699.7	699.7	710.4	799.2	1640.2	2719.7	3481.5	3675.2
666.6	30°	668.7	668.7	676.2	707.2	1369.5	2656.6	3571.4	3767.2
634.5	32.5°	636.6	636.6	643.0	665.5	1093.5	2577.4	3653.8	3860.3
601.3	35°	604.5	602.4	610.9	634.5	869.8	2476.9	3736.2	3960.9
568.1	37.5°	570.3	569.2	577.8	604.5	751.1	2360.3	3798.2	4097.8
535.0	40°	533.9	533.9	543.5	572.4	716.8	2213.7	3896.7	4294.7
500.7	42.5°	500.7	498.6	509.3	544.6	691.2	2073.5	4073.2	4581.4
469.7	45°	468.6	464.3	474.0	517.8	646.2	2024.3	4402.7	5005.1
439.7	47.5°	438.7	428.0	436.5	485.7	605.6	2208.3	4942.0	5592.5
413.0	50°	414.1	393.7	401.2	453.6	574.5	2607.4	5641.7	6372.5
388.4	52.5°	388.4	361.6	365.9	414.1	546.7	2987.2	6400.3	7401.7
363.8	55°	361.6	331.7	333.8	374.5	507.1	3043.9	7140.7	8805.5
336.0	57.5°	331.7	303.9	303.9	338.1	478.3	2638.4	7709.9	10547.3
301.7	60°	298.5	280.3	275.0	309.2	503.9	1861.7	7776.2	11670.7
257.9	62.5°	262.1	252.5	245.0	281.4	523.2	1103.1	7242.3	11399.0
203.3	65°	220.4	218.3	212.9	309.2	440.8	651.6	6217.3	10565.5
173.3	67.5°	185.1	181.9	181.9	324.2	334.9	409.8	4857.5	9418.5
147.6	70°	159.4	147.6	147.6	245.0	203.3	283.5	3391.7	8180.6
122.0	72.5°	133.7	120.9	112.3	195.8	151.9	207.6	2119.5	7005.9
93.1	75°	107.0	97.4	86.7	129.5	113.4	157.3	1231.5	5804.3
58.8	77.5°	77.0	72.8	61.0	95.2	82.4	113.4	732.9	4478.7
36.4	80°	39.6	40.7	38.5	54.6	55.6	77.0	417.3	3065.3
23.5	82.5°	23.5	18.2	20.3	26.7	32.1	43.9	157.3	1801.8
17.1	85°	15.0	9.6	9.6	12.8	16.0	17.1	48.1	730.8
8.6	87.5°	7.5	3.2	4.3	6.4	5.3	4.3	2.1	184.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)