

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: P949543

Luminaire Tested: **GALN-SB4B-735-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949543  
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-SB4B-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

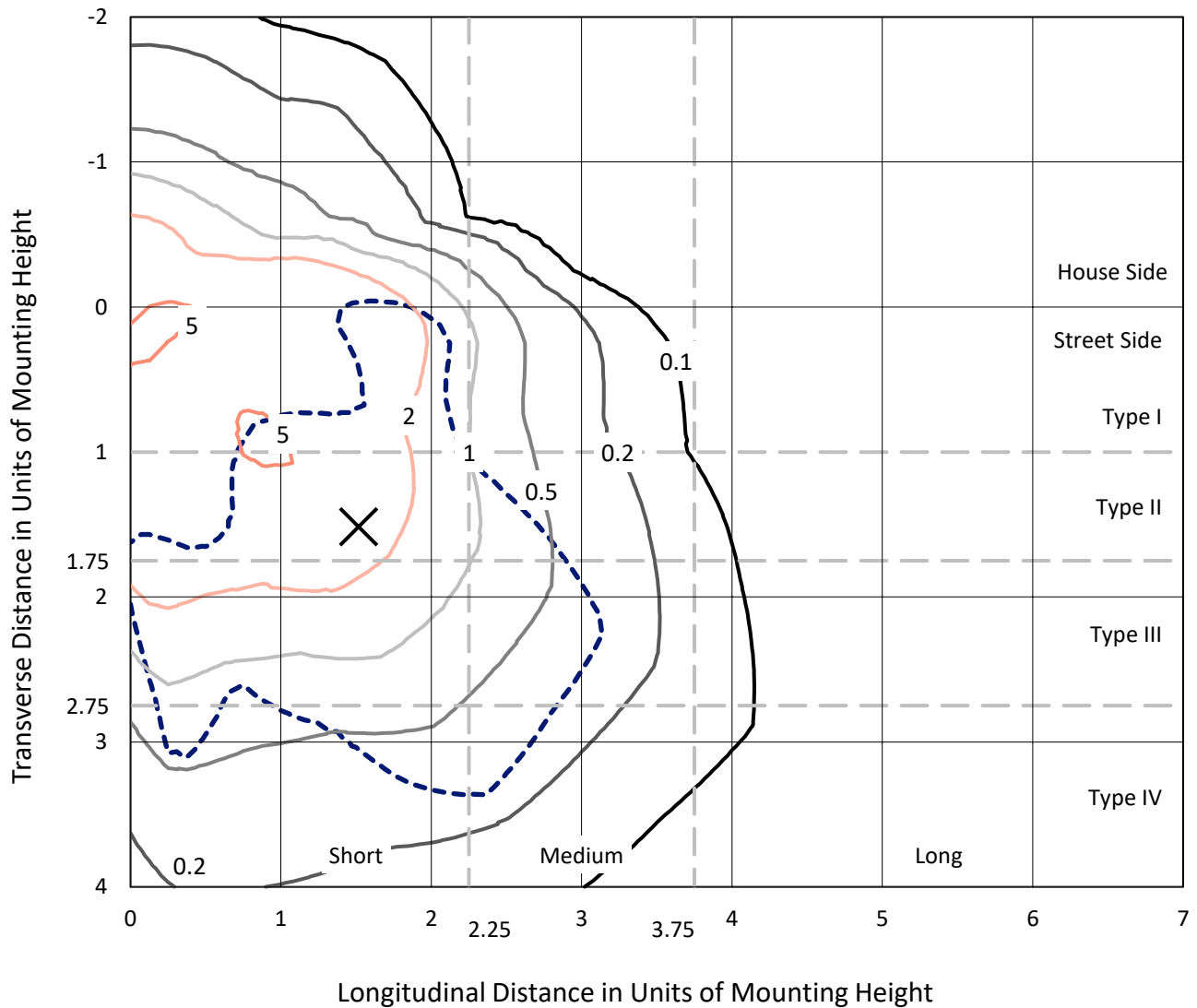
Lumens per Lamp: N/A  
Luminaire Lumens: 17224 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

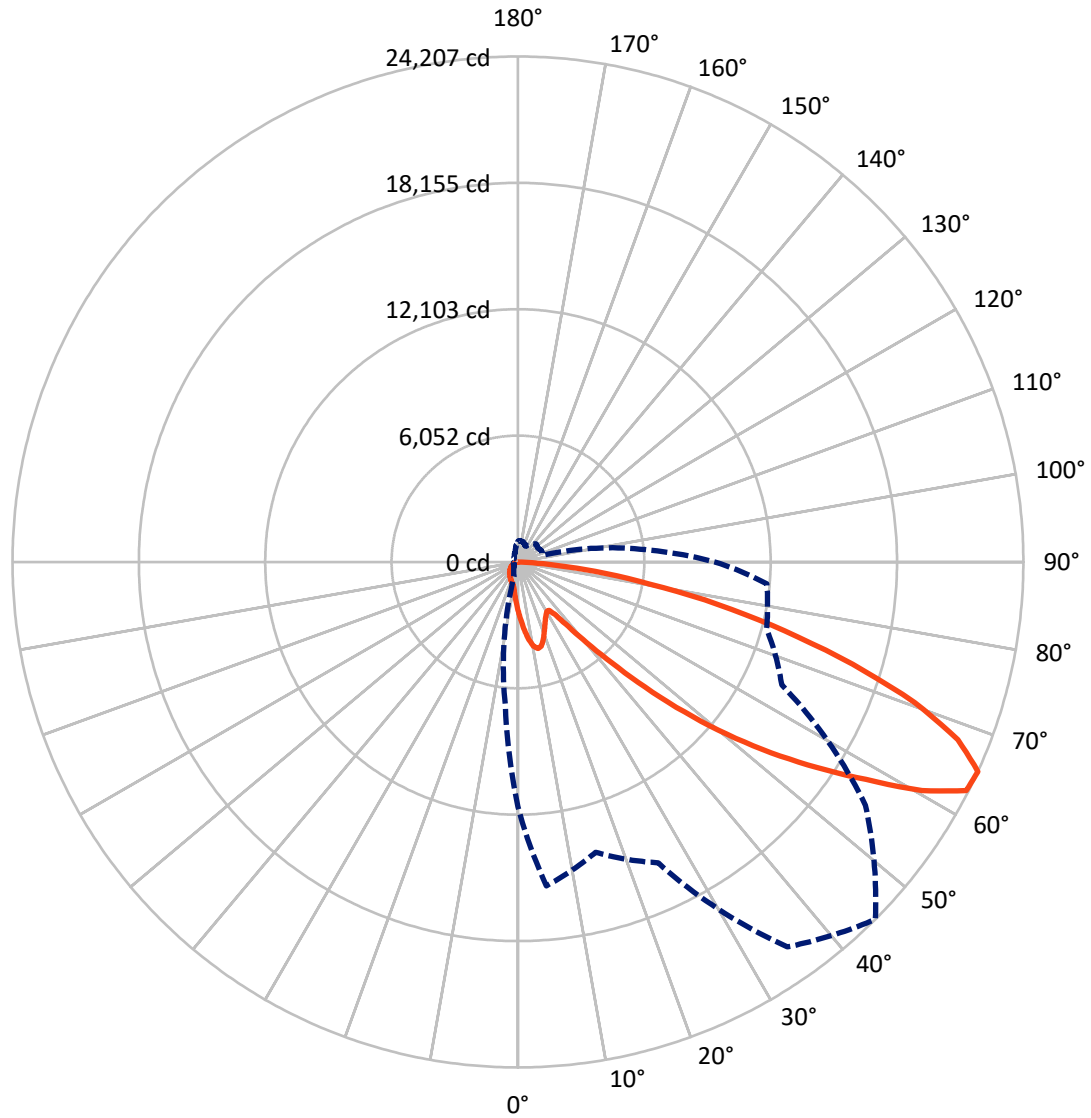
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	3423.6	0.0	3423.6
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	13800.4	0.0	13800.4
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	17224.0	0.0	17224.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.8	1.4
10°-20°	703.9	4.1
20°-30°	1037.0	6.0
30°-40°	1332.2	7.7
40°-50°	2154.6	12.5
50°-60°	3778.3	21.9
60°-70°	4727.7	27.4
70°-80°	2762.6	16.0
80°-90°	492.9	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°	17224.0	100.0
0°-180°	17224.0	100.0



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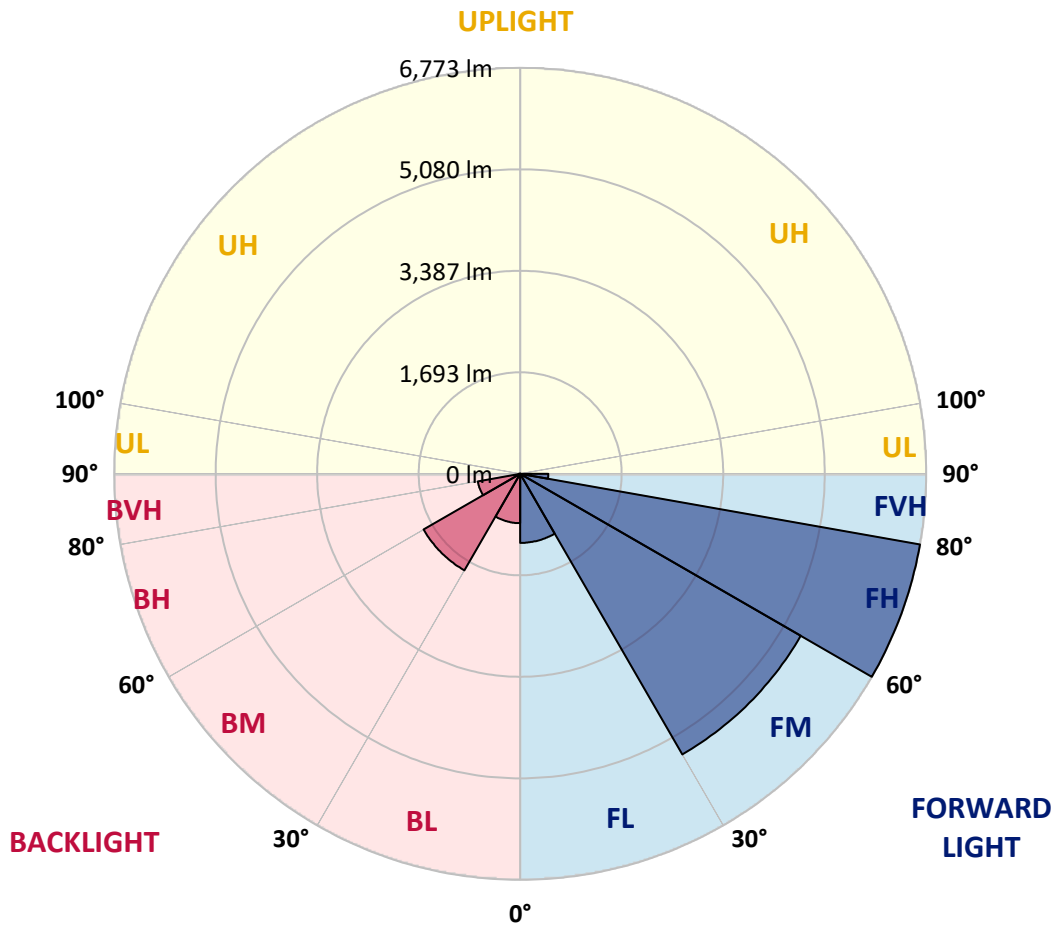
CATALOG NUMBER: GALN-SB4B-735-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1152.5	6.7			
FM (30°-60°)	5405.1	31.4			
FH (60°-80°)	6773.0	39.3			G3/7500
FVH (80°-90°)	469.8	2.7			G3/500
BL (0°-30°)	823.2	4.8	B2/1000		
BM (30°-60°)	1860.0	10.8	B2/2500		
BH (60°-80°)	717.3	4.2	B2/1000		G2/1000
BVH (80°-90°)	23.1	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°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2.5°	2672.1	2692.3	2737.4	2761.1	2797.9	2800.3	2800.3	2768.2	2767.0	2701.8
5°	2986.6	3034.0	3140.8	3251.2	3274.9	3280.8	3269.0	3204.9	3157.4	3030.5
7.5°	3298.6	3390.0	3552.5	3699.7	3747.1	3747.1	3718.7	3614.2	3516.9	3333.0
10°	3557.3	3672.4	3893.1	4058.0	4112.6	4100.7	4042.6	3910.9	3776.8	3553.7
12.5°	3728.2	3857.5	4099.5	4232.4	4288.2	4257.4	4190.9	4062.8	3921.6	3686.6
15°	3813.6	3948.9	4158.9	4228.9	4213.5	4181.4	4173.1	4111.4	4004.6	3785.1
17.5°	3850.4	3976.1	4122.1	4078.2	3947.7	3922.7	4005.8	4084.1	4058.0	3870.5
20°	3884.8	3990.4	4034.3	3839.7	3611.9	3589.3	3748.3	3971.4	4085.3	3950.0
22.5°	3932.2	3997.5	3907.3	3588.1	3342.5	3290.3	3465.9	3801.7	4093.6	4050.9
25°	3997.5	4015.3	3767.3	3349.6	3102.8	3050.6	3214.4	3613.1	4079.4	4160.1
27.5°	4075.8	4039.0	3633.2	3150.3	2911.8	2863.2	3026.9	3431.5	4039.0	4269.2
30°	4177.9	4069.9	3500.3	2996.0	2775.3	2739.8	2897.6	3274.9	3989.2	4408.0
32.5°	4281.1	4082.9	3376.9	2905.9	2744.5	2757.6	2886.9	3190.6	3934.6	4540.9
35°	4392.6	4124.5	3316.4	2994.9	3002.0	3115.9	3169.3	3269.0	3926.3	4721.3
37.5°	4544.5	4217.0	3388.8	3437.4	3684.2	3920.4	3876.5	3652.2	4022.4	4990.6
40°	4762.8	4379.6	3704.4	4190.9	4697.6	5080.8	4913.5	4348.7	4316.7	5378.6
42.5°	5080.8	4638.2	4264.5	5111.7	5970.7	6602.0	6153.5	5246.9	4831.6	5932.8
45°	5550.7	5057.1	4942.0	6083.5	7540.5	8534.9	7602.2	6204.5	5553.1	6771.7
47.5°	6202.1	5672.9	5576.8	7107.5	9448.5	10734.8	9208.8	7092.0	6374.2	7915.5
50°	7067.1	6502.3	6178.4	8227.6	11540.4	12977.3	10814.3	7948.7	7315.1	9313.3
52.5°	8208.6	7659.2	6879.6	9294.3	13691.6	15172.5	12426.8	8701.0	8482.7	10935.3
55°	9765.3	9399.9	7838.4	10312.3	15841.7	17380.6	13976.4	9410.6	10025.2	12862.2
57.5°	11697.0	11958.1	9220.7	11493.0	17774.6	19656.4	15533.2	10402.5	12028.1	15017.0
60°	12942.9	15359.9	11867.9	13238.4	19970.9	22230.1	17666.6	12289.1	14133.0	15789.5
62.5°	12641.5	16442.1	15038.4	15466.7	21990.4	24101.3	19757.3	14184.1	14529.3	14651.6
65°	11717.2	15568.8	14391.7	15899.8	22501.8	24206.9	20316.2	13939.6	12324.7	11961.6
67.5°	10445.2	14532.9	12855.1	14751.2	21577.5	22730.8	19275.6	12330.7	9524.5	8976.3
70°	9072.4	13386.7	11846.6	13462.6	19815.4	20158.4	17506.4	10845.1	7005.4	6062.1
72.5°	7769.6	12193.0	11156.0	12142.0	17464.9	16755.3	15203.3	9531.6	5101.0	4372.5
75°	6437.1	10432.2	10172.3	10573.4	14373.9	13198.0	12632.1	7891.8	4003.4	3163.4
77.5°	4966.9	8151.6	8749.6	8467.2	10117.7	9803.3	9791.4	5930.4	2924.9	2110.9
80°	3399.5	5681.2	6835.7	5973.1	6566.4	6406.2	7374.4	3978.5	2121.6	1270.8
82.5°	1998.2	3458.8	4758.1	2891.6	3630.9	3727.0	4391.4	1935.3	1248.3	293.1
85°	810.4	1365.7	1860.5	1132.0	1751.4	1477.3	1667.1	543.4	347.7	7.1
87.5°	204.1	436.7	306.1	127.0	202.9	186.3	147.1	66.4	14.2	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°
2385.0	0°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2694.7	2.5°	2648.4	2621.1	2553.5	2485.8	2431.2	2357.7	2309.0	2250.9	2195.1	2145.3
3003.2	5°	2928.4	2838.2	2714.8	2602.1	2487.0	2375.5	2265.1	2148.8	2042.1	1976.8
3264.2	7.5°	3156.2	2997.2	2833.5	2689.9	2551.1	2420.6	2274.6	2133.4	1966.1	1877.1
3463.6	10°	3325.9	3117.1	2902.3	2737.4	2597.4	2470.4	2347.0	2204.6	2002.9	1891.4
3584.6	12.5°	3437.4	3189.5	2937.9	2749.2	2592.6	2494.1	2439.6	2383.8	2183.3	2052.7
3673.6	15°	3514.6	3240.5	2962.8	2722.0	2529.7	2457.4	2511.9	2576.0	2447.9	2297.2
3766.1	17.5°	3598.8	3306.9	2973.5	2648.4	2407.5	2376.7	2517.9	2666.2	2660.3	2510.7
3853.9	20°	3687.8	3365.1	2966.4	2529.7	2259.2	2286.5	2466.8	2638.9	2711.3	2630.6
3954.8	22.5°	3779.2	3420.8	2939.1	2375.5	2120.4	2205.8	2386.2	2536.9	2622.3	2597.4
4078.2	25°	3894.3	3499.1	2898.8	2209.4	2005.3	2123.9	2292.4	2414.6	2474.0	2472.8
4211.1	27.5°	4031.9	3603.6	2877.4	2075.3	1923.4	2031.4	2180.9	2290.0	2331.6	2331.6
4376.0	30°	4192.1	3727.0	2853.7	1987.5	1875.9	1935.3	2051.6	2158.3	2199.9	2199.9
4556.4	32.5°	4370.1	3845.6	2796.7	1934.1	1840.3	1841.5	1915.1	2012.4	2062.2	2069.3
4781.8	35°	4583.7	3972.6	2672.1	1891.4	1798.8	1750.2	1785.8	1866.4	1925.8	1941.2
5103.4	37.5°	4863.7	4128.0	2494.1	1828.5	1734.7	1654.1	1662.4	1724.1	1789.3	1813.1
5547.1	40°	5239.8	4310.7	2309.0	1738.3	1644.6	1548.5	1544.9	1590.0	1654.1	1680.2
6147.5	42.5°	5737.0	4530.3	2132.2	1651.7	1535.4	1436.9	1431.0	1466.6	1522.3	1549.6
6940.2	45°	6373.0	4799.6	1980.4	1584.0	1428.6	1331.3	1328.9	1358.6	1407.3	1435.7
7954.7	47.5°	7257.0	5069.0	1877.1	1548.5	1344.4	1244.7	1249.4	1275.5	1319.4	1339.6
9268.2	50°	8409.1	5150.8	1824.9	1548.5	1299.3	1167.6	1191.3	1212.7	1245.9	1257.7
10842.7	52.5°	9515.0	4880.3	1777.5	1557.9	1305.2	1102.3	1153.3	1168.8	1197.2	1202.0
12302.2	55°	10057.2	4195.7	1712.2	1560.3	1342.0	1046.5	1122.5	1151.0	1161.6	1160.4
13149.4	57.5°	9870.9	3392.4	1601.8	1550.8	1366.9	1010.9	1084.5	1139.1	1146.2	1135.5
12988.0	60°	9217.1	2497.7	1517.6	1480.8	1357.4	1000.3	1026.4	1113.0	1123.7	1109.4
11744.5	62.5°	8120.8	1733.6	1452.3	1326.6	1315.9	996.7	935.0	1056.0	1082.1	1062.0
9440.2	65°	6393.2	1224.5	1250.6	1162.8	1225.7	977.7	840.1	987.2	1022.8	992.0
6848.8	67.5°	4326.2	884.0	1013.3	1053.7	1079.8	935.0	771.3	908.9	956.4	916.0
4395.0	70°	2336.3	620.6	669.2	887.5	917.2	861.4	709.6	829.4	884.0	840.1
3124.2	72.5°	1380.0	446.1	468.7	713.1	764.1	758.2	640.7	736.8	803.3	751.1
2156.0	75°	760.6	301.4	334.6	517.3	620.6	585.0	550.6	624.1	691.8	640.7
1351.5	77.5°	340.5	180.4	232.6	339.4	487.7	401.1	426.0	486.5	549.4	496.0
752.3	80°	131.7	100.9	154.3	185.1	354.8	221.9	274.1	358.3	403.4	360.7
163.7	82.5°	16.6	45.1	66.4	72.4	206.5	117.5	159.0	225.4	221.9	192.2
0.0	85°	0.0	8.3	9.5	4.7	89.0	42.7	52.2	73.6	68.8	52.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	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°
2385.0	0°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2135.8	2.5°	2077.7	2034.9	2013.6	1995.8	2012.4	2021.9	2021.9	2062.2	2086.0	2095.5
1935.3	5°	1830.9	1751.4	1698.0	1665.9	1676.6	1688.5	1701.5	1752.5	1786.9	1809.5
1796.4	7.5°	1636.3	1515.2	1440.5	1401.3	1407.3	1415.6	1426.2	1476.1	1510.5	1540.1
1770.3	10°	1540.1	1369.3	1270.8	1223.3	1215.0	1210.3	1206.7	1236.4	1262.5	1286.2
1877.1	12.5°	1544.9	1306.4	1186.6	1128.4	1103.5	1075.0	1052.5	1057.2	1073.8	1103.5
2068.2	15°	1605.4	1286.2	1142.7	1070.3	1028.7	995.5	968.2	962.3	968.2	973.0
2286.5	17.5°	1687.3	1283.9	1104.7	1014.5	971.8	944.5	919.6	911.3	912.5	918.4
2431.2	20°	1752.5	1276.7	1062.0	961.1	923.1	899.4	874.5	866.2	868.6	869.7
2445.5	22.5°	1786.9	1266.1	1014.5	907.7	875.7	851.9	829.4	828.2	828.2	835.3
2368.4	25°	1786.9	1243.5	971.8	856.7	828.2	806.9	779.6	784.3	786.7	796.2
2248.5	27.5°	1744.2	1200.8	937.4	812.8	783.1	761.8	736.8	742.8	746.3	757.0
2129.9	30°	1689.7	1149.8	898.2	771.3	736.8	721.4	700.1	702.4	707.2	719.1
2019.5	32.5°	1631.5	1089.3	866.2	729.7	695.3	683.5	659.7	663.3	668.0	681.1
1910.4	35°	1567.4	1018.1	828.2	691.8	657.4	647.9	620.6	622.9	630.1	644.3
1792.9	37.5°	1499.8	959.9	790.2	655.0	619.4	609.9	581.4	583.8	592.1	608.7
1669.5	40°	1433.4	903.0	749.9	615.8	580.2	571.9	541.1	543.4	552.9	570.7
1544.9	42.5°	1361.0	859.1	697.7	575.5	537.5	529.2	500.7	504.3	515.0	532.8
1429.8	45°	1274.4	830.6	639.6	537.5	494.8	486.5	460.4	467.5	479.4	497.2
1331.3	47.5°	1185.4	818.7	590.9	497.2	450.9	443.8	422.4	434.3	447.3	461.6
1247.1	50°	1099.9	803.3	541.1	459.2	412.9	405.8	391.6	407.0	420.0	433.1
1186.6	52.5°	1002.6	770.1	496.0	426.0	380.9	378.5	371.4	385.6	397.5	409.4
1134.3	55°	901.8	716.7	456.8	396.3	353.6	356.0	352.4	364.3	373.8	384.4
1086.9	57.5°	814.0	649.0	426.0	364.3	329.9	337.0	332.2	338.2	344.1	357.2
1029.9	60°	725.0	568.4	391.6	326.3	306.1	314.4	301.4	300.2	302.6	306.1
945.7	62.5°	605.1	484.1	348.8	293.1	280.0	283.6	258.7	239.7	239.7	243.2
828.2	65°	486.5	405.8	301.4	255.1	244.4	242.1	206.5	180.4	178.0	188.7
691.8	67.5°	399.9	337.0	253.9	212.4	205.3	207.6	181.5	155.4	153.1	164.9
563.6	70°	331.0	271.7	202.9	163.7	170.9	181.5	155.4	130.5	127.0	137.6
458.0	72.5°	263.4	212.4	155.4	121.0	141.2	154.3	127.0	103.2	100.9	110.3
353.6	75°	193.4	151.9	105.6	87.8	109.2	121.0	92.6	73.6	70.0	78.3
236.1	77.5°	119.8	85.4	66.4	52.2	74.8	80.7	48.6	42.7	41.5	47.5
143.6	80°	55.8	36.8	32.0	17.8	27.3	32.0	20.2	22.5	23.7	28.5
72.4	82.5°	15.4	5.9	1.2	0.0	0.0	9.5	4.7	9.5	11.9	17.8
5.9	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	5.9	10.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7
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):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
2385.0	0°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2161.9	2.5°	2211.7	2259.2	2335.1	2413.5	2490.6	2568.9	2644.8	2672.1
1912.7	5°	2006.5	2115.6	2266.3	2427.7	2593.8	2762.3	2916.5	2986.6
1655.2	7.5°	1777.5	1934.1	2160.7	2413.5	2678.1	2942.7	3185.9	3298.6
1400.1	10°	1533.0	1731.2	1989.9	2331.6	2711.3	3076.7	3411.3	3557.3
1175.9	12.5°	1300.5	1508.1	1794.1	2203.4	2685.2	3153.9	3556.1	3728.2
1018.1	15°	1105.9	1289.8	1598.3	2051.6	2600.9	3158.6	3624.9	3813.6
930.3	17.5°	959.9	1079.8	1398.9	1883.1	2490.6	3114.7	3648.7	3850.4
882.8	20°	887.5	920.8	1140.3	1667.1	2387.3	3073.2	3672.4	3884.8
844.8	22.5°	844.8	853.1	932.6	1388.3	2263.9	3060.1	3713.9	3932.2
810.4	25°	810.4	812.8	834.1	1099.9	2075.3	3051.8	3778.0	3997.5
774.8	27.5°	776.0	776.0	787.9	886.4	1819.0	3016.2	3861.0	4075.8
739.2	30°	741.6	741.6	749.9	784.3	1518.8	2946.2	3960.7	4177.9
703.6	32.5°	706.0	706.0	713.1	738.0	1212.7	2858.4	4052.1	4281.1
666.8	35°	670.4	668.0	677.5	703.6	964.7	2746.9	4143.4	4392.6
630.1	37.5°	632.4	631.2	640.7	670.4	833.0	2617.5	4212.3	4544.5
593.3	40°	592.1	592.1	602.8	634.8	795.0	2455.0	4321.4	4762.8
555.3	42.5°	555.3	552.9	564.8	604.0	766.5	2299.5	4517.2	5080.8
520.9	45°	519.7	515.0	525.6	574.3	716.7	2245.0	4882.7	5550.7
487.7	47.5°	486.5	474.6	484.1	538.7	671.6	2449.0	5480.7	6202.1
458.0	50°	459.2	436.7	445.0	503.1	637.2	2891.6	6256.7	7067.1
430.7	52.5°	430.7	401.1	405.8	459.2	606.3	3312.9	7098.0	8208.6
403.4	55°	401.1	367.8	370.2	415.3	562.4	3375.7	7919.1	9765.3
372.6	57.5°	367.8	337.0	337.0	375.0	530.4	2926.0	8550.3	11697.0
334.6	60°	331.0	310.9	304.9	342.9	558.9	2064.6	8623.9	12942.9
286.0	62.5°	290.7	280.0	271.7	312.1	580.2	1223.3	8031.8	12641.5
225.4	65°	244.4	242.1	236.1	342.9	488.9	722.6	6895.1	11717.2
192.2	67.5°	205.3	201.7	201.7	359.5	371.4	454.5	5387.0	10445.2
163.7	70°	176.8	163.7	163.7	271.7	225.4	314.4	3761.4	9072.4
135.3	72.5°	148.3	134.1	124.6	217.1	168.5	230.2	2350.6	7769.6
103.2	75°	118.7	108.0	96.1	143.6	125.8	174.4	1365.7	6437.1
65.3	77.5°	85.4	80.7	67.6	105.6	91.4	125.8	812.8	4966.9
40.3	80°	43.9	45.1	42.7	60.5	61.7	85.4	462.8	3399.5
26.1	82.5°	26.1	20.2	22.5	29.7	35.6	48.6	174.4	1998.2
19.0	85°	16.6	10.7	10.7	14.2	17.8	19.0	53.4	810.4
9.5	87.5°	8.3	3.6	4.7	7.1	5.9	4.7	2.4	204.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)