

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: P954541

Luminaire Tested: **GALN-SB7D-735-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954541  
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-SB7D-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

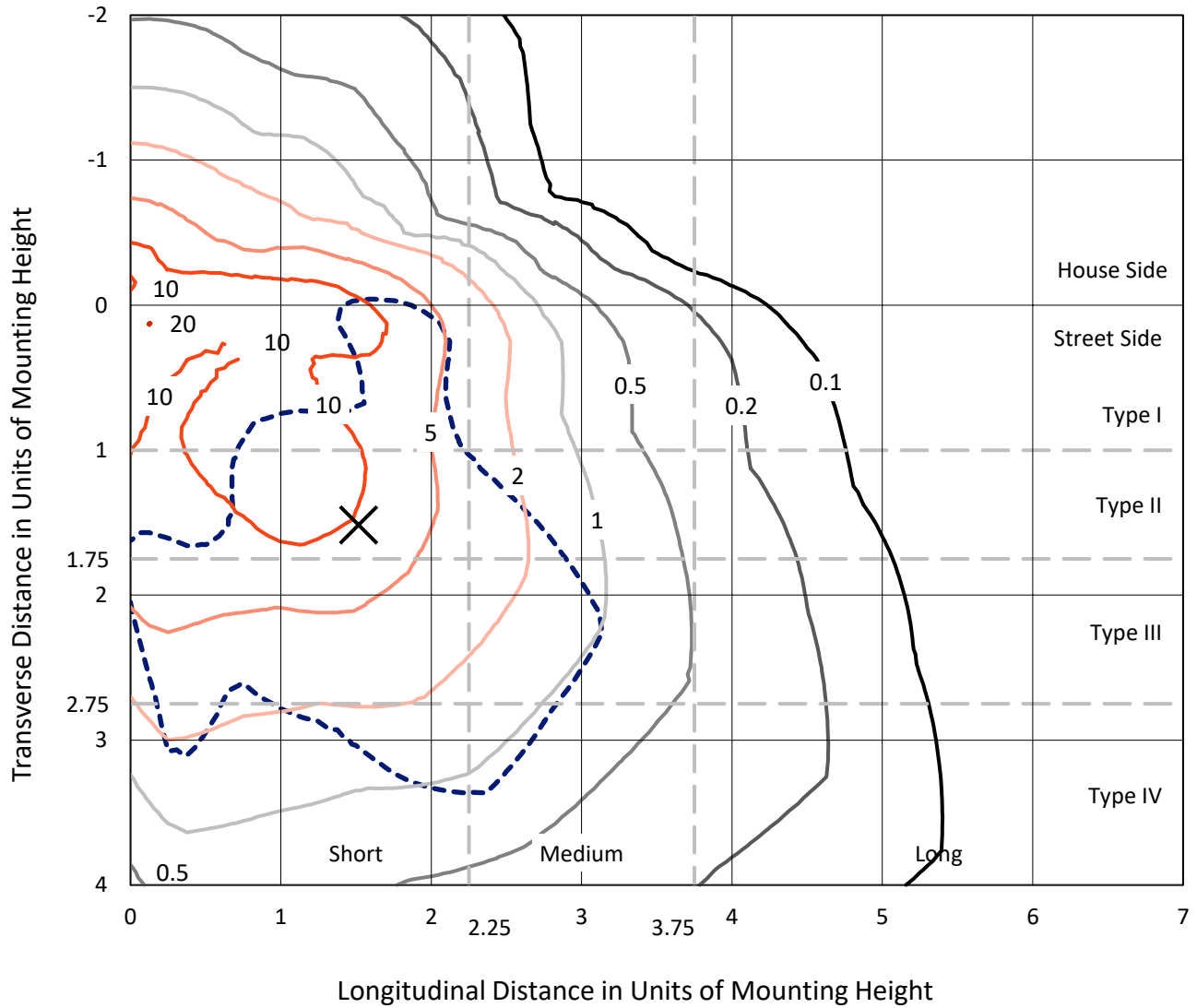
Lumens per Lamp: N/A  
Luminaire Lumens: 55231 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

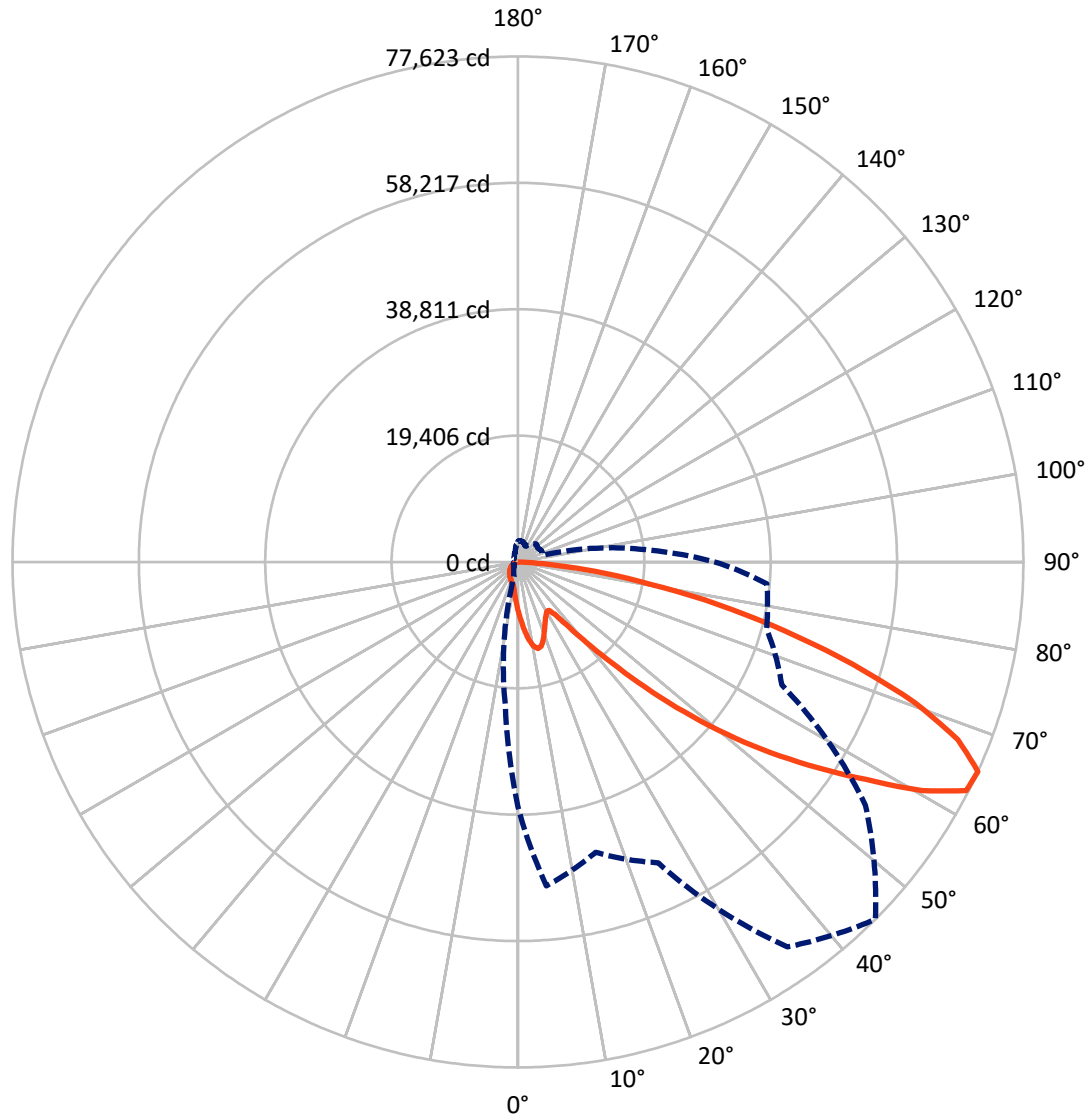
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 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	10978.2	0.0	10978.2
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	44252.8	0.0	44252.8
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	55231.0	0.0	55231.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	752.9	1.4
10°-20°	2257.1	4.1
20°-30°	3325.2	6.0
30°-40°	4271.9	7.7
40°-50°	6909.0	12.5
50°-60°	12115.6	21.9
60°-70°	15159.9	27.4
70°-80°	8858.8	16.0
80°-90°	1580.5	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°	55231.0	100.0
0°-180°	55231.0	100.0

**Coefficient of Utilization**



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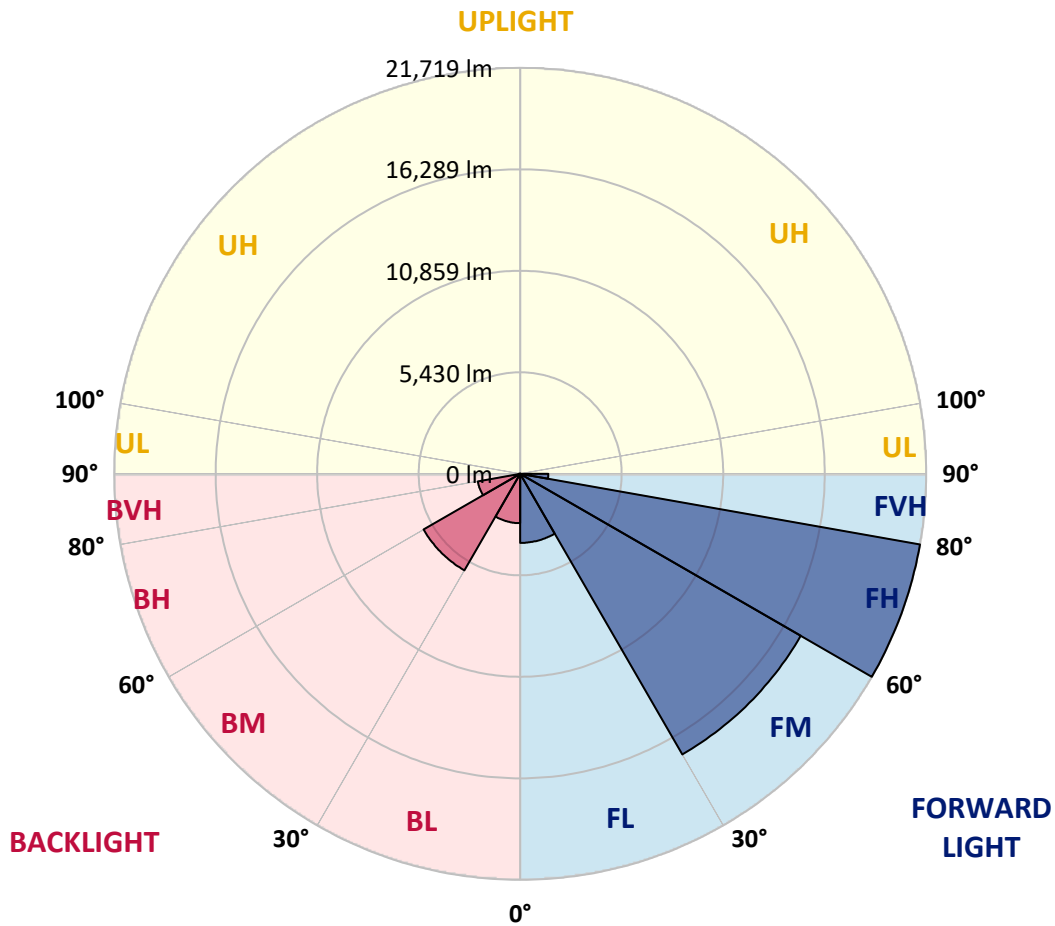
CATALOG NUMBER: GALN-SB7D-735-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3695.6	6.7			
FM (30°-60°)	17332.2	31.4			
FH (60°-80°)	21718.5	39.3			G5
FVH (80°-90°)	1506.5	2.7			G5
BL (0°-30°)	2639.6	4.8	B4/5000		
BM (30°-60°)	5964.4	10.8	B4/8500		
BH (60°-80°)	2300.1	4.2	B3/2500		G3/2500
BVH (80°-90°)	74.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7647.7	7647.7	7647.7	7647.7	7647.7	7647.7	7647.7	7647.7	7647.7	7647.7
2.5°	8568.5	8633.2	8777.8	8853.9	8971.8	8979.4	8979.4	8876.7	8872.9	8663.6
5°	9576.8	9729.0	10071.4	10425.3	10501.4	10520.4	10482.3	10276.9	10124.7	9717.6
7.5°	10577.5	10870.4	11391.7	11863.5	12015.7	12015.7	11924.4	11589.5	11277.5	10687.8
10°	11406.9	11776.0	12483.7	13012.5	13187.6	13149.5	12963.1	12540.7	12110.8	11395.5
12.5°	11954.8	12369.5	13145.7	13571.9	13750.7	13651.8	13438.7	13027.8	12575.0	11821.6
15°	12228.8	12662.5	13336.0	13560.4	13511.0	13408.3	13381.6	13183.8	12841.3	12137.4
17.5°	12346.7	12750.0	13218.0	13077.2	12658.7	12578.8	12845.1	13096.3	13012.5	12411.4
20°	12457.0	12795.7	12936.5	12312.5	11581.9	11509.6	12019.5	12734.8	13100.1	12666.3
22.5°	12609.2	12818.5	12529.3	11505.8	10718.2	10550.8	11113.9	12190.7	13126.7	12989.7
25°	12818.5	12875.6	12080.4	10741.1	9949.7	9782.2	10307.3	11585.7	13081.0	13339.8
27.5°	13069.6	12951.7	11650.4	10101.8	9337.1	9181.1	9706.1	11003.6	12951.7	13689.8
30°	13396.8	13050.6	11224.3	9607.2	8899.5	8785.4	9291.4	10501.4	12791.9	14135.0
32.5°	13727.9	13092.5	10828.6	9318.1	8800.6	8842.4	9257.2	10231.2	12616.8	14561.1
35°	14085.5	13225.6	10634.5	9603.4	9626.2	9991.5	10162.7	10482.3	12590.2	15139.5
37.5°	14572.5	13522.4	10866.6	11022.6	11814.0	12571.2	12430.4	11711.3	12898.4	16003.2
40°	15272.6	14043.7	11878.7	13438.7	15063.4	16292.3	15755.8	13944.7	13842.0	17247.3
42.5°	16292.3	14873.1	13674.6	16391.2	19145.9	21170.1	19731.9	16825.0	15493.3	19024.2
45°	17799.0	16216.2	15847.2	19507.4	24179.8	27368.2	24377.6	19895.5	17806.6	21714.2
47.5°	19887.9	18190.9	17882.7	22791.0	30297.9	34422.4	29529.4	22741.5	20439.6	25382.1
50°	22661.6	20850.5	19811.8	26382.8	37005.9	41613.5	34677.3	25488.6	23456.8	29864.2
52.5°	26321.9	24560.2	22060.5	29803.3	43904.0	48652.5	39848.1	27900.9	27200.8	35065.4
55°	31313.8	30141.9	25134.8	33067.9	50798.4	55733.3	44817.2	30176.2	32147.1	41244.5
57.5°	37508.1	38345.2	29567.4	36853.7	56996.5	63031.0	49809.1	33357.0	38569.7	48154.0
60°	41503.2	49253.6	38056.0	42450.6	64039.2	71283.7	56650.2	39406.7	45319.4	50631.0
62.5°	40536.8	52723.7	48222.5	49596.1	70515.1	77283.9	63354.4	45483.0	46590.3	46982.2
65°	37572.8	49923.3	46148.9	50984.8	72155.0	77622.5	65146.5	44699.2	39520.9	38356.6
67.5°	33494.0	46601.7	41221.6	47301.8	69191.0	72889.3	61809.6	39539.9	30541.4	28783.6
70°	29091.8	42926.2	37987.5	43169.7	63540.8	64640.4	56136.6	34776.2	22463.8	19438.9
72.5°	24914.1	39098.5	35773.1	38934.9	56003.4	53728.1	48751.4	30564.3	16357.0	14020.8
75°	20641.3	33452.1	32618.9	33904.9	46091.8	42321.2	40506.3	25306.0	12837.5	10143.7
77.5°	15927.1	26139.2	28056.9	27151.3	32443.9	31435.6	31397.5	19016.6	9378.9	6768.8
80°	10900.9	18217.6	21919.7	19153.6	21056.0	20542.3	23647.1	12757.6	6803.1	4075.0
82.5°	6407.3	11091.1	15257.4	9272.4	11642.8	11951.0	14081.7	6205.7	4002.7	939.8
85°	2598.7	4379.4	5966.0	3629.8	5615.9	4737.0	5345.8	1742.6	1114.8	22.8
87.5°	654.4	1400.2	981.6	407.1	650.6	597.4	471.8	213.1	45.7	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°
7647.7	0°	7647.7	7647.7	7647.7	7647.7	7647.7	7647.7	7647.7	7647.7	7647.7	7647.7
8640.8	2.5°	8492.4	8404.9	8188.0	7971.1	7796.1	7560.2	7404.2	7217.8	7039.0	6879.1
9630.0	5°	9390.3	9101.2	8705.5	8344.0	7974.9	7617.3	7263.4	6890.6	6548.1	6338.9
10467.1	7.5°	10120.9	9611.0	9086.0	8625.6	8180.4	7761.9	7293.9	6841.1	6304.6	6019.3
11106.3	10°	10665.0	9995.3	9306.6	8777.8	8328.8	7921.7	7526.0	7069.4	6422.6	6064.9
11494.4	12.5°	11022.6	10227.4	9420.8	8815.8	8313.6	7997.8	7822.7	7643.9	7000.9	6582.4
11779.8	15°	11269.9	10391.0	9500.7	8728.3	8111.9	7879.8	8054.8	8260.3	7849.4	7366.2
12076.6	17.5°	11540.1	10604.1	9534.9	8492.4	7720.0	7621.1	8073.9	8549.5	8530.4	8051.0
12358.1	20°	11825.4	10790.5	9512.1	8111.9	7244.4	7331.9	7910.3	8462.0	8694.1	8435.3
12681.5	22.5°	12118.4	10969.4	9424.6	7617.3	6799.2	7073.2	7651.5	8134.7	8408.7	8328.8
13077.2	25°	12487.5	11220.5	9295.2	7084.6	6430.2	6810.7	7350.9	7742.8	7933.1	7929.3
13503.4	27.5°	12928.8	11555.3	9226.7	6654.7	6167.6	6513.9	6993.3	7343.3	7476.5	7476.5
14032.2	30°	13442.5	11951.0	9150.6	6373.1	6015.5	6205.7	6578.6	6921.0	7054.2	7054.2
14610.6	32.5°	14013.2	12331.5	8968.0	6201.9	5901.3	5905.1	6141.0	6453.0	6612.8	6635.6
15333.5	35°	14698.1	12738.6	8568.5	6064.9	5768.1	5612.1	5726.3	5985.0	6175.3	6224.7
16364.6	37.5°	15596.0	13237.0	7997.8	5863.3	5562.7	5303.9	5330.6	5528.4	5737.7	5813.8
17787.6	40°	16802.2	13823.0	7404.2	5574.1	5273.5	4965.3	4953.9	5098.5	5303.9	5387.7
19712.9	42.5°	18396.4	14526.9	6837.3	5296.3	4923.5	4607.7	4588.6	4702.8	4881.6	4969.1
22254.5	45°	20435.8	15390.6	6350.3	5079.5	4581.0	4269.0	4261.4	4356.5	4512.5	4603.9
25507.6	47.5°	23270.4	16254.3	6019.3	4965.3	4310.9	3991.3	4006.5	4090.2	4231.0	4295.7
29719.6	50°	26964.9	16516.8	5851.8	4965.3	4166.3	3744.0	3820.1	3888.5	3995.1	4033.1
34768.6	52.5°	30511.0	15649.3	5699.6	4995.8	4185.3	3534.7	3698.3	3747.8	3839.1	3854.3
39448.6	55°	32249.8	13453.9	5490.4	5003.4	4303.3	3355.9	3599.4	3690.7	3724.9	3721.1
42165.2	57.5°	31652.5	10878.0	5136.5	4972.9	4383.2	3241.7	3477.6	3652.6	3675.5	3641.2
41647.8	60°	29556.0	8009.2	4866.4	4748.4	4352.7	3207.5	3291.2	3568.9	3603.2	3557.5
37660.3	62.5°	26040.3	5558.9	4657.1	4253.8	4219.6	3196.1	2998.2	3386.3	3470.0	3405.3
30271.3	65°	20500.5	3926.6	4010.3	3728.7	3930.4	3135.2	2693.8	3165.6	3279.8	3180.8
21961.5	67.5°	13872.4	2834.6	3249.3	3378.7	3462.4	2998.2	2473.1	2914.5	3066.7	2937.3
14093.1	70°	7491.7	1989.9	2145.9	2846.0	2941.1	2762.3	2275.3	2659.6	2834.6	2693.8
10018.1	72.5°	4425.0	1430.6	1502.9	2286.7	2450.3	2431.3	2054.6	2362.8	2575.9	2408.5
6913.4	75°	2438.9	966.4	1073.0	1658.9	1989.9	1875.8	1765.4	2001.3	2218.2	2054.6
4333.7	77.5°	1092.0	578.3	745.7	1088.2	1563.8	1286.0	1365.9	1560.0	1761.6	1590.4
2412.3	80°	422.3	323.4	494.6	593.6	1137.6	711.5	878.9	1149.1	1293.6	1156.7
525.1	82.5°	53.3	144.6	213.1	232.1	662.0	376.7	509.8	722.9	711.5	616.4
0.0	85°	0.0	26.6	30.4	15.2	285.4	137.0	167.4	235.9	220.7	167.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	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°
7647.7	0°	7647.7	7647.7	7647.7	7647.7	7647.7	7647.7	7647.7	7647.7	7647.7	7647.7
6848.7	2.5°	6662.3	6525.3	6456.8	6399.7	6453.0	6483.4	6483.4	6612.8	6688.9	6719.3
6205.7	5°	5870.9	5615.9	5444.7	5342.0	5376.2	5414.3	5456.1	5619.7	5730.1	5802.4
5760.5	7.5°	5246.9	4858.8	4619.1	4493.5	4512.5	4539.2	4573.4	4733.2	4843.6	4938.7
5676.8	10°	4938.7	4390.8	4075.0	3922.8	3896.2	3880.9	3869.5	3964.6	4048.3	4124.4
6019.3	12.5°	4953.9	4189.1	3804.8	3618.4	3538.5	3447.2	3374.9	3390.1	3443.4	3538.5
6631.8	15°	5147.9	4124.4	3664.1	3432.0	3298.8	3192.3	3104.7	3085.7	3104.7	3120.0
7331.9	17.5°	5410.5	4116.8	3542.3	3253.1	3116.2	3028.7	2948.8	2922.1	2925.9	2944.9
7796.1	20°	5619.7	4094.0	3405.3	3081.9	2960.2	2884.1	2804.2	2777.5	2785.1	2788.9
7841.8	22.5°	5730.1	4059.8	3253.1	2910.7	2808.0	2731.9	2659.6	2655.8	2655.8	2678.6
7594.5	25°	5730.1	3987.5	3116.2	2747.1	2655.8	2587.3	2499.8	2515.0	2522.6	2553.0
7210.2	27.5°	5593.1	3850.5	3005.8	2606.3	2511.2	2442.7	2362.8	2381.8	2393.2	2427.5
6829.7	30°	5418.1	3686.9	2880.3	2473.1	2362.8	2313.3	2244.9	2252.5	2267.7	2305.7
6475.8	32.5°	5231.7	3492.8	2777.5	2340.0	2229.6	2191.6	2115.5	2126.9	2142.1	2184.0
6125.8	35°	5026.2	3264.6	2655.8	2218.2	2107.9	2077.4	1989.9	1997.5	2020.4	2066.0
5749.1	37.5°	4809.3	3078.1	2534.0	2100.3	1986.1	1955.7	1864.4	1872.0	1898.6	1951.9
5353.4	40°	4596.2	2895.5	2404.7	1974.7	1860.6	1833.9	1735.0	1742.6	1773.1	1830.1
4953.9	42.5°	4364.2	2754.7	2237.2	1845.3	1723.6	1697.0	1605.6	1617.1	1651.3	1708.4
4584.8	45°	4086.4	2663.4	2050.8	1723.6	1586.6	1560.0	1476.3	1499.1	1537.2	1594.2
4269.0	47.5°	3801.0	2625.3	1894.8	1594.2	1445.8	1423.0	1354.5	1392.6	1434.4	1480.1
3998.9	50°	3527.1	2575.9	1735.0	1472.5	1324.1	1301.3	1255.6	1305.1	1346.9	1388.8
3804.8	52.5°	3215.1	2469.3	1590.4	1365.9	1221.4	1213.7	1190.9	1236.6	1274.6	1312.7
3637.4	55°	2891.7	2298.1	1464.9	1270.8	1133.8	1141.5	1130.0	1168.1	1198.5	1232.8
3485.2	57.5°	2610.1	2081.2	1365.9	1168.1	1057.7	1080.6	1065.4	1084.4	1103.4	1145.3
3302.6	60°	2324.8	1822.5	1255.6	1046.3	981.6	1008.3	966.4	962.6	970.2	981.6
3032.5	62.5°	1940.5	1552.4	1118.6	939.8	897.9	909.4	829.5	768.6	768.6	780.0
2655.8	65°	1560.0	1301.3	966.4	818.0	783.8	776.2	662.0	578.3	570.7	605.0
2218.2	67.5°	1282.2	1080.6	814.2	681.1	658.2	665.8	582.1	498.4	490.8	528.9
1807.3	70°	1061.6	871.3	650.6	525.1	547.9	582.1	498.4	418.5	407.1	441.4
1468.7	72.5°	844.7	681.1	498.4	388.1	452.8	494.6	407.1	331.0	323.4	353.9
1133.8	75°	620.2	487.0	338.6	281.6	350.0	388.1	296.8	235.9	224.5	251.1
757.2	77.5°	384.3	273.9	213.1	167.4	239.7	258.7	156.0	137.0	133.2	152.2
460.4	80°	178.8	118.0	102.7	57.1	87.5	102.7	64.7	72.3	76.1	91.3
232.1	82.5°	49.5	19.0	3.8	0.0	0.0	30.4	15.2	30.4	38.0	57.1
19.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	19.0	34.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.2
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):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
7647.7	0°	7647.7	7647.7	7647.7	7647.7	7647.7	7647.7	7647.7	7647.7
6932.4	2.5°	7092.2	7244.4	7487.9	7739.0	7986.4	8237.5	8481.0	8568.5
6133.4	5°	6434.0	6784.0	7267.2	7784.7	8317.4	8857.7	9352.3	9576.8
5307.8	7.5°	5699.6	6201.9	6928.6	7739.0	8587.5	9436.0	10216.0	10577.5
4489.7	10°	4915.9	5551.3	6380.7	7476.5	8694.1	9865.9	10938.9	11406.9
3770.6	12.5°	4170.1	4836.0	5752.9	7065.6	8610.4	10113.3	11403.1	11954.8
3264.6	15°	3546.1	4135.9	5125.1	6578.6	8340.2	10128.5	11623.8	12228.8
2983.0	17.5°	3078.1	3462.4	4485.9	6038.3	7986.4	9987.7	11699.9	12346.7
2830.8	20°	2846.0	2952.6	3656.5	5345.8	7655.3	9854.5	11776.0	12457.0
2709.0	22.5°	2709.0	2735.7	2990.6	4451.7	7259.6	9812.7	11909.1	12609.2
2598.7	25°	2598.7	2606.3	2674.8	3527.1	6654.7	9786.0	12114.6	12818.5
2484.6	27.5°	2488.4	2488.4	2526.4	2842.2	5832.8	9671.9	12380.9	13069.6
2370.4	30°	2378.0	2378.0	2404.7	2515.0	4870.2	9447.4	12700.6	13396.8
2256.3	32.5°	2263.9	2263.9	2286.7	2366.6	3888.5	9165.9	12993.5	13727.9
2138.3	35°	2149.7	2142.1	2172.6	2256.3	3093.3	8808.2	13286.5	14085.5
2020.4	37.5°	2028.0	2024.2	2054.6	2149.7	2671.0	8393.5	13507.2	14572.5
1902.4	40°	1898.6	1898.6	1932.9	2035.6	2549.2	7872.2	13857.2	15272.6
1780.7	42.5°	1780.7	1773.1	1811.1	1936.7	2457.9	7373.8	14485.0	16292.3
1670.3	45°	1666.5	1651.3	1685.5	1841.5	2298.1	7198.8	15656.9	17799.0
1563.8	47.5°	1560.0	1521.9	1552.4	1727.4	2153.5	7853.2	17574.6	19887.9
1468.7	50°	1472.5	1400.2	1426.8	1613.3	2043.2	9272.4	20062.9	22661.6
1381.2	52.5°	1381.2	1286.0	1301.3	1472.5	1944.3	10623.1	22760.5	26321.9
1293.6	55°	1286.0	1179.5	1187.1	1331.7	1803.5	10824.8	25393.5	31313.8
1194.7	57.5°	1179.5	1080.6	1080.6	1202.3	1700.8	9382.7	27417.7	37508.1
1073.0	60°	1061.6	996.9	977.8	1099.6	1792.1	6620.4	27653.6	41503.2
917.0	62.5°	932.2	897.9	871.3	1000.7	1860.6	3922.8	25755.0	40536.8
722.9	65°	783.8	776.2	757.2	1099.6	1567.6	2317.1	22109.9	37572.8
616.4	67.5°	658.2	646.8	646.8	1152.9	1190.9	1457.3	17274.0	33494.0
525.1	70°	566.9	525.1	525.1	871.3	722.9	1008.3	12061.3	29091.8
433.8	72.5°	475.6	429.9	399.5	696.3	540.3	738.1	7537.4	24914.1
331.0	75°	380.5	346.2	308.2	460.4	403.3	559.3	4379.4	20641.3
209.3	77.5°	273.9	258.7	216.9	338.6	293.0	403.3	2606.3	15927.1
129.4	80°	140.8	144.6	137.0	194.0	197.9	273.9	1483.9	10900.9
83.7	82.5°	83.7	64.7	72.3	95.1	114.1	156.0	559.3	6407.3
60.9	85°	53.3	34.2	34.2	45.7	57.1	60.9	171.2	2598.7
30.4	87.5°	26.6	11.4	15.2	22.8	19.0	15.2	7.6	654.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)