

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: P955612

Luminaire Tested: **GALN-SB8C-735-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955612
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-SB8C-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 615mA 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: 46217 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

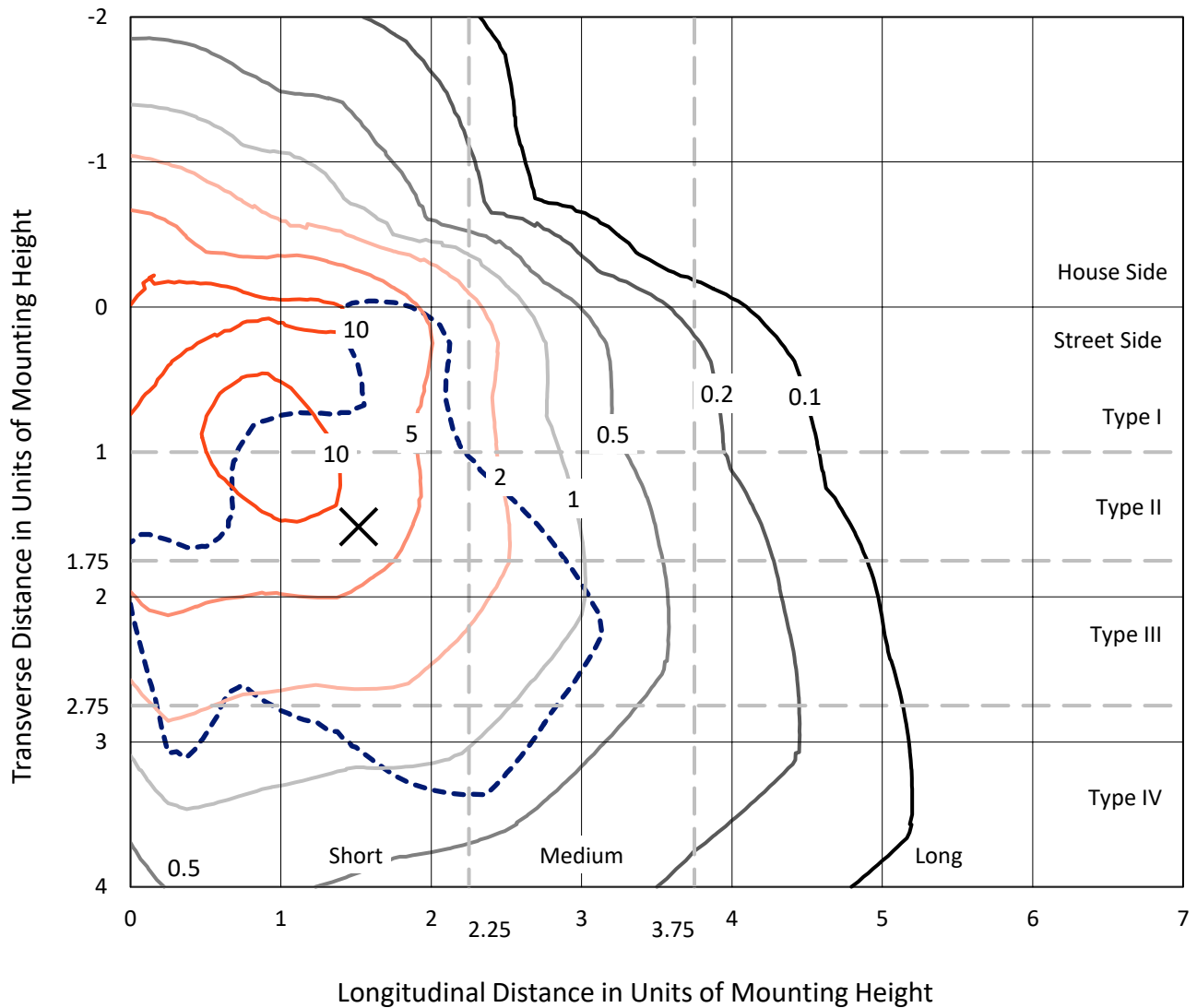
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

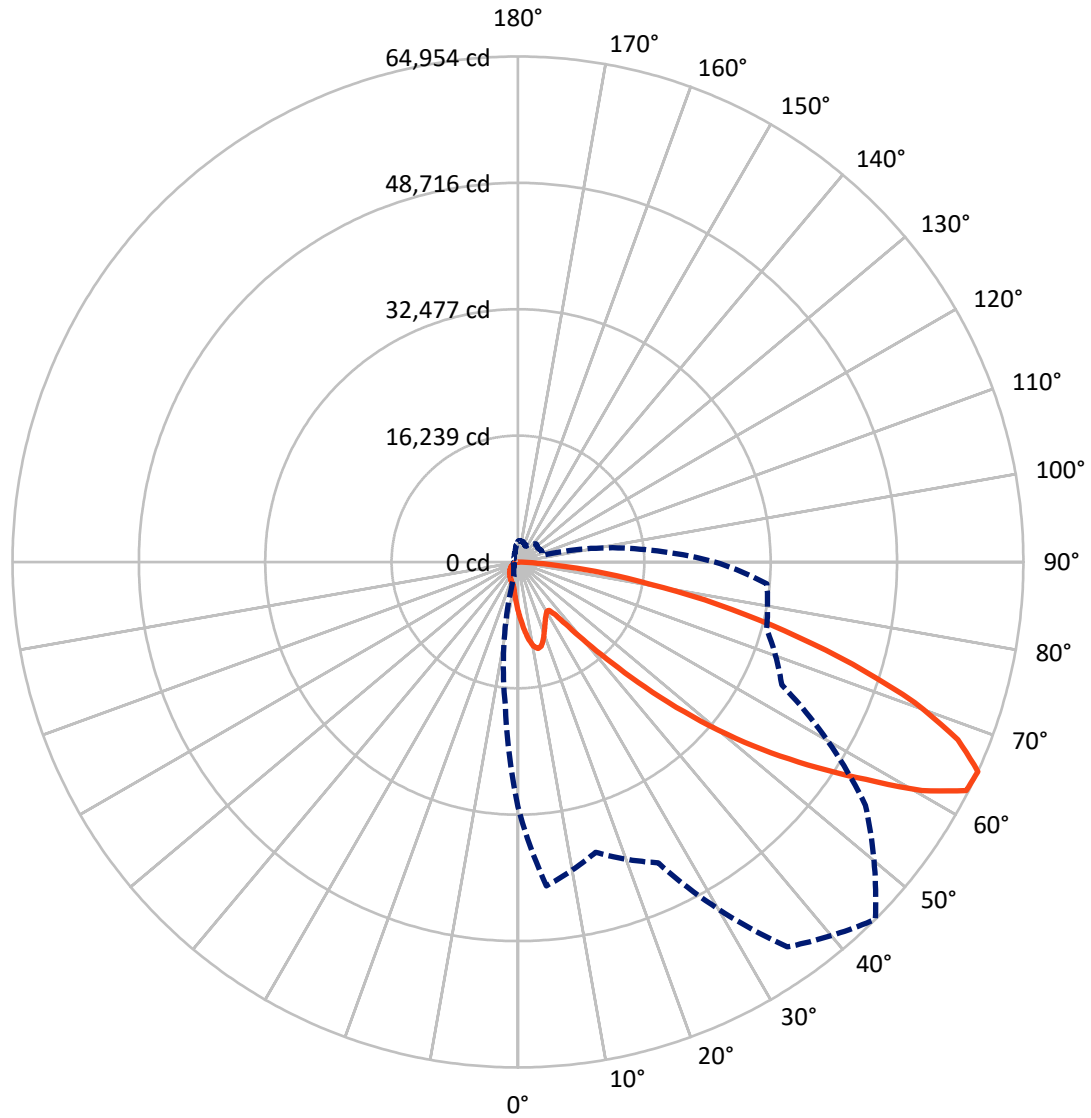
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 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
House Side	Lumens	9186.5	0.0	9186.5
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	37030.5	0.0	37030.5
	% Fixture	80.1	0.0	80.1
Total	Lumens	46217.0	0.0	46217.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	630.1	1.4
10°-20°	1888.7	4.1
20°-30°	2782.5	6.0
30°-40°	3574.7	7.7
40°-50°	5781.4	12.5
50°-60°	10138.3	21.9
60°-70°	12685.7	27.4
70°-80°	7413.0	16.0
80°-90°	1322.6	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°	46217.0	100.0
0°-180°	46217.0	100.0

Coefficient of Utilization



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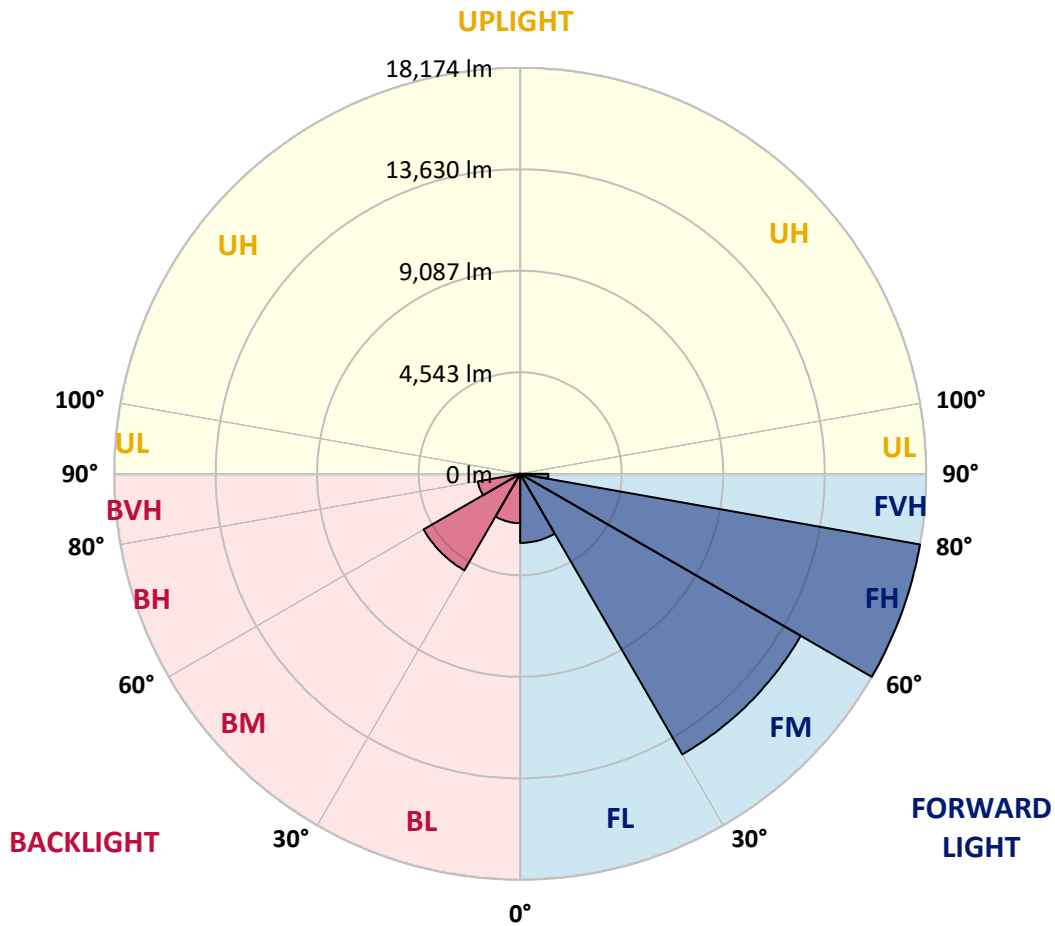
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3092.5	6.7			
FM (30°-60°)	14503.5	31.4			
FH (60°-80°)	18174.0	39.3			G5
FVH (80°-90°)	1260.6	2.7			G5
BL (0°-30°)	2208.8	4.8	B3/2500		
BM (30°-60°)	4991.0	10.8	B3/5000		
BH (60°-80°)	1924.7	4.2	B3/2500		G3/2500
BVH (80°-90°)	62.0	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°	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6
2.5°	7170.1	7224.2	7345.2	7408.9	7507.6	7513.9	7513.9	7428.0	7424.8	7249.7
5°	8013.8	8141.2	8427.7	8723.8	8787.5	8803.4	8771.6	8599.6	8472.3	8131.6
7.5°	8851.2	9096.3	9532.5	9927.3	10054.7	10054.7	9978.2	9698.1	9437.0	8943.5
10°	9545.2	9854.1	10446.3	10888.8	11035.3	11003.4	10847.4	10494.0	10134.3	9535.7
12.5°	10003.7	10350.8	11000.3	11356.9	11506.5	11423.7	11245.4	10901.6	10522.7	9892.3
15°	10233.0	10595.9	11159.5	11347.3	11305.9	11220.0	11197.7	11032.1	10745.6	10156.5
17.5°	10331.7	10669.1	11060.8	10943.0	10592.7	10525.9	10748.7	10958.9	10888.8	10385.8
20°	10424.0	10707.3	10825.2	10303.0	9691.7	9631.2	10057.8	10656.4	10962.1	10599.1
22.5°	10551.3	10726.5	10484.5	9628.0	8969.0	8828.9	9300.1	10201.1	10984.3	10869.7
25°	10726.5	10774.2	10108.8	8988.1	8325.8	8185.7	8625.1	9694.9	10946.1	11162.6
27.5°	10936.6	10837.9	9749.0	8453.2	7813.2	7682.7	8122.0	9207.7	10837.9	11455.6
30°	11210.4	10920.7	9392.4	8039.3	7447.1	7351.6	7775.0	8787.5	10704.2	11828.1
32.5°	11487.4	10955.7	9061.3	7797.3	7364.3	7399.3	7746.4	8561.4	10557.7	12184.7
35°	11786.7	11067.1	8898.9	8036.1	8055.2	8360.8	8504.1	8771.6	10535.4	12668.6
37.5°	12194.2	11315.5	9093.1	9223.7	9885.9	10519.5	10401.7	9799.9	10793.3	13391.4
40°	12780.0	11751.7	9940.0	11245.4	12604.9	13633.3	13184.4	11668.9	11582.9	14432.5
42.5°	13633.3	12445.7	11442.8	13716.1	16021.2	17715.0	16511.5	14079.1	12964.7	15919.3
45°	14894.1	13569.6	13260.8	16323.7	20233.5	22901.6	20399.0	16648.4	14900.5	18170.3
47.5°	16642.1	15222.1	14964.2	19071.4	25353.1	28804.5	24710.0	19030.0	17103.7	21239.6
50°	18963.1	17447.6	16578.4	22076.9	30966.3	34822.0	29017.8	21328.7	19628.5	24990.2
52.5°	22026.0	20551.9	18460.1	24939.2	36738.7	40712.1	33344.7	23347.3	22761.5	29342.5
55°	26203.2	25222.6	21032.6	27671.0	42507.8	46637.3	37502.8	25251.3	26900.5	34513.1
57.5°	31386.6	32087.0	24741.8	30839.0	47694.3	52744.0	41680.0	27913.0	32274.9	40295.0
60°	34729.6	41215.2	31845.1	35522.4	53587.7	59649.8	47404.6	32975.3	37923.1	42367.7
62.5°	33920.9	44118.9	40352.3	41501.7	59006.6	64670.7	53014.6	38060.0	38986.5	39314.4
65°	31440.7	41775.5	38617.1	42663.8	60378.9	64954.1	54514.2	37404.1	33070.8	32096.6
67.5°	28027.6	38996.0	34494.0	39581.9	57898.6	60993.4	51721.9	33086.8	25556.9	24086.0
70°	24343.9	35920.4	31787.7	36124.2	53170.6	54090.7	46974.8	29100.6	18797.6	16266.4
72.5°	20848.0	32717.4	29934.7	32580.5	46863.4	44959.4	40794.9	25576.0	13687.5	11732.6
75°	17272.5	27992.6	27295.3	28371.5	38569.4	35414.2	33895.5	21175.9	10742.4	8488.2
77.5°	13327.7	21873.2	23477.8	22720.1	27148.8	26305.1	26273.3	15913.0	7848.2	5664.1
80°	9121.8	15244.4	18342.3	16027.6	17619.5	17189.7	19787.7	10675.5	5692.8	3409.9
82.5°	5361.6	9281.0	12767.3	7759.1	9742.6	10000.5	11783.5	5192.9	3349.4	786.4
85°	2174.6	3664.6	4992.3	3037.4	4699.4	3963.9	4473.3	1458.2	932.9	19.1
87.5°	547.6	1171.7	821.4	340.7	544.4	499.9	394.8	178.3	38.2	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°
6399.6	0°	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6
7230.6	2.5°	7106.4	7033.2	6851.7	6670.2	6523.7	6326.3	6195.8	6039.8	5890.2	5756.4
8058.4	5°	7857.8	7615.8	7284.7	6982.2	6673.4	6374.1	6078.0	5766.0	5479.4	5304.3
8758.8	7.5°	8469.1	8042.5	7603.1	7217.8	6845.3	6495.1	6103.5	5724.6	5275.7	5036.9
9293.7	10°	8924.4	8364.0	7787.7	7345.2	6969.5	6628.8	6297.7	5915.6	5374.4	5075.1
9618.5	12.5°	9223.7	8558.2	7883.3	7377.0	6956.8	6692.5	6546.0	6396.4	5858.3	5508.1
9857.3	15°	9430.6	8695.1	7950.1	7303.8	6788.0	6593.8	6740.2	6912.2	6568.3	6164.0
10105.6	17.5°	9656.7	8873.4	7978.8	7106.4	6460.1	6377.3	6756.2	7154.2	7138.2	6737.1
10341.2	20°	9895.5	9029.5	7959.7	6788.0	6062.1	6135.3	6619.3	7080.9	7275.1	7058.6
10611.8	22.5°	10140.6	9179.1	7886.4	6374.1	5689.6	5918.8	6402.8	6807.1	7036.3	6969.5
10943.0	25°	10449.5	9389.2	7778.2	5928.4	5380.7	5699.1	6151.2	6479.2	6638.4	6635.2
11299.5	27.5°	10818.8	9669.4	7720.9	5568.6	5161.1	5450.8	5852.0	6144.9	6256.3	6256.3
11742.1	30°	11248.6	10000.5	7657.2	5333.0	5033.7	5192.9	5504.9	5791.5	5902.9	5902.9
12226.1	32.5°	11726.2	10318.9	7504.4	5189.7	4938.2	4941.4	5138.8	5399.8	5533.6	5552.7
12831.0	35°	12299.3	10659.6	7170.1	5075.1	4826.7	4696.2	4791.7	5008.2	5167.4	5208.8
13693.8	37.5°	13050.7	11076.7	6692.5	4906.3	4654.8	4438.3	4460.6	4626.2	4801.3	4865.0
14884.6	40°	14060.0	11567.0	6195.8	4664.4	4412.8	4154.9	4145.4	4266.4	4438.3	4508.4
16495.6	42.5°	15394.0	12156.0	5721.4	4431.9	4119.9	3855.7	3839.7	3935.3	4084.9	4158.1
18622.4	45°	17100.6	12878.7	5313.9	4250.5	3833.4	3572.3	3565.9	3645.5	3776.1	3852.5
21344.7	47.5°	19472.5	13601.5	5036.9	4154.9	3607.3	3339.9	3352.6	3422.7	3540.5	3594.6
24869.2	50°	22564.1	13821.2	4896.8	4154.9	3486.3	3132.9	3196.6	3253.9	3343.1	3374.9
29094.2	52.5°	25531.4	13095.3	4769.4	4180.4	3502.3	2957.8	3094.7	3136.1	3212.5	3225.3
33010.3	55°	26986.5	11258.2	4594.3	4186.8	3601.0	2808.2	3011.9	3088.4	3117.0	3113.8
35283.6	57.5°	26486.6	9102.7	4298.2	4161.3	3667.8	2712.7	2910.1	3056.5	3075.6	3047.0
34850.6	60°	24732.3	6702.0	4072.2	3973.5	3642.3	2684.0	2754.0	2986.5	3015.1	2976.9
31513.9	62.5°	21790.4	4651.6	3897.1	3559.6	3530.9	2674.4	2508.9	2833.6	2903.7	2849.6
25330.9	65°	17154.7	3285.8	3355.8	3120.2	3288.9	2623.5	2254.2	2649.0	2744.5	2661.7
18377.3	67.5°	11608.4	2372.0	2719.0	2827.3	2897.3	2508.9	2069.5	2438.8	2566.2	2457.9
11793.0	70°	6269.0	1665.2	1795.7	2381.5	2461.1	2311.5	1904.0	2225.5	2372.0	2254.2
8383.1	72.5°	3702.8	1197.1	1257.6	1913.5	2050.4	2034.5	1719.3	1977.2	2155.5	2015.4
5785.1	75°	2040.9	808.7	897.9	1388.2	1665.2	1569.6	1477.3	1674.7	1856.2	1719.3
3626.4	77.5°	913.8	483.9	624.0	910.6	1308.6	1076.1	1143.0	1305.4	1474.1	1330.9
2018.6	80°	353.4	270.6	413.9	496.7	952.0	595.4	735.5	961.5	1082.5	967.9
439.4	82.5°	44.6	121.0	178.3	194.2	554.0	315.2	426.6	604.9	595.4	515.8
0.0	85°	0.0	22.3	25.5	12.7	238.8	114.6	140.1	197.4	184.7	140.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	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°
6399.6	0°	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6
5731.0	2.5°	5575.0	5460.3	5403.0	5355.3	5399.8	5425.3	5425.3	5533.6	5597.2	5622.7
5192.9	5°	4912.7	4699.4	4556.1	4470.2	4498.8	4530.6	4565.7	4702.6	4794.9	4855.4
4820.4	7.5°	4390.6	4065.8	3865.2	3760.1	3776.1	3798.4	3827.0	3960.7	4053.1	4132.7
4750.3	10°	4132.7	3674.2	3409.9	3282.6	3260.3	3247.5	3238.0	3317.6	3387.6	3451.3
5036.9	12.5°	4145.4	3505.4	3183.9	3027.9	2961.0	2884.6	2824.1	2836.8	2881.4	2961.0
5549.5	15°	4307.8	3451.3	3066.1	2871.8	2760.4	2671.3	2598.0	2582.1	2598.0	2610.8
6135.3	17.5°	4527.5	3444.9	2964.2	2722.2	2607.6	2534.4	2467.5	2445.2	2448.4	2464.3
6523.7	20°	4702.6	3425.8	2849.6	2578.9	2477.0	2413.4	2346.5	2324.2	2330.6	2333.8
6562.0	22.5°	4794.9	3397.2	2722.2	2435.7	2349.7	2286.0	2225.5	2222.3	2222.3	2241.4
6355.0	25°	4794.9	3336.7	2607.6	2298.8	2222.3	2165.0	2091.8	2104.5	2110.9	2136.4
6033.4	27.5°	4680.3	3222.1	2515.3	2180.9	2101.4	2044.0	1977.2	1993.1	2002.7	2031.3
5715.0	30°	4533.8	3085.2	2410.2	2069.5	1977.2	1935.8	1878.5	1884.9	1897.6	1929.4
5418.9	32.5°	4377.8	2922.8	2324.2	1958.1	1865.7	1833.9	1770.2	1779.8	1792.5	1827.5
5126.0	35°	4205.9	2731.8	2222.3	1856.2	1763.9	1738.4	1665.2	1671.5	1690.6	1728.8
4810.8	37.5°	4024.4	2575.7	2120.5	1757.5	1662.0	1636.5	1560.1	1566.5	1588.8	1633.3
4479.7	40°	3846.1	2422.9	2012.2	1652.4	1556.9	1534.6	1451.8	1458.2	1483.7	1531.4
4145.4	42.5°	3651.9	2305.1	1872.1	1544.2	1442.3	1420.0	1343.6	1353.1	1381.8	1429.6
3836.6	45°	3419.5	2228.7	1716.1	1442.3	1327.7	1305.4	1235.3	1254.4	1286.3	1334.0
3572.3	47.5°	3180.7	2196.9	1585.6	1334.0	1209.9	1190.8	1133.5	1165.3	1200.3	1238.5
3346.2	50°	2951.4	2155.5	1451.8	1232.2	1108.0	1088.9	1050.7	1092.1	1127.1	1162.1
3183.9	52.5°	2690.4	2066.3	1330.9	1143.0	1022.0	1015.7	996.6	1034.8	1066.6	1098.4
3043.8	55°	2419.7	1923.1	1225.8	1063.4	948.8	955.2	945.6	977.4	1002.9	1031.6
2916.4	57.5°	2184.1	1741.6	1143.0	977.4	885.1	904.2	891.5	907.4	923.3	958.3
2763.6	60°	1945.3	1525.1	1050.7	875.6	821.4	843.7	808.7	805.5	811.9	821.4
2537.5	62.5°	1623.8	1299.0	936.1	786.4	751.4	760.9	694.1	643.1	643.1	652.7
2222.3	65°	1305.4	1088.9	808.7	684.5	655.9	649.5	554.0	483.9	477.6	506.2
1856.2	67.5°	1073.0	904.2	681.3	569.9	550.8	557.2	487.1	417.1	410.7	442.6
1512.3	70°	888.3	729.1	544.4	439.4	458.5	487.1	417.1	350.2	340.7	369.3
1229.0	72.5°	706.8	569.9	417.1	324.8	378.9	413.9	340.7	277.0	270.6	296.1
948.8	75°	519.0	407.5	283.4	235.6	292.9	324.8	248.3	197.4	187.8	210.1
633.6	77.5°	321.6	229.2	178.3	140.1	200.6	216.5	130.5	114.6	111.4	127.4
385.2	80°	149.6	98.7	86.0	47.8	73.2	86.0	54.1	60.5	63.7	76.4
194.2	82.5°	41.4	15.9	3.2	0.0	0.0	25.5	12.7	25.5	31.8	47.8
15.9	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	15.9	28.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7
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°
6399.6	0°	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6
5801.0	2.5°	5934.7	6062.1	6265.9	6476.0	6682.9	6893.1	7096.8	7170.1
5132.4	5°	5383.9	5676.8	6081.2	6514.2	6959.9	7412.0	7825.9	8013.8
4441.5	7.5°	4769.4	5189.7	5797.8	6476.0	7186.0	7896.0	8548.7	8851.2
3757.0	10°	4113.6	4645.3	5339.3	6256.3	7275.1	8255.8	9153.6	9545.2
3155.2	12.5°	3489.5	4046.7	4814.0	5912.4	7205.1	8462.7	9542.1	10003.7
2731.8	15°	2967.4	3460.9	4288.7	5504.9	6979.0	8475.5	9726.7	10233.0
2496.2	17.5°	2575.7	2897.3	3753.8	5052.8	6682.9	8357.7	9790.4	10331.7
2368.8	20°	2381.5	2470.7	3059.7	4473.3	6405.9	8246.2	9854.1	10424.0
2266.9	22.5°	2266.9	2289.2	2502.5	3725.1	6074.8	8211.2	9965.5	10551.3
2174.6	25°	2174.6	2180.9	2238.3	2951.4	5568.6	8188.9	10137.4	10726.5
2079.1	27.5°	2082.2	2082.2	2114.1	2378.3	4880.9	8093.4	10360.3	10936.6
1983.6	30°	1989.9	1989.9	2012.2	2104.5	4075.4	7905.5	10627.8	11210.4
1888.0	32.5°	1894.4	1894.4	1913.5	1980.4	3253.9	7669.9	10872.9	11487.4
1789.3	35°	1798.9	1792.5	1818.0	1888.0	2588.5	7370.7	11118.1	11786.7
1690.6	37.5°	1697.0	1693.8	1719.3	1798.9	2235.1	7023.6	11302.7	12194.2
1591.9	40°	1588.8	1588.8	1617.4	1703.4	2133.2	6587.4	11595.6	12780.0
1490.1	42.5°	1490.1	1483.7	1515.5	1620.6	2056.8	6170.3	12121.0	13633.3
1397.7	45°	1394.5	1381.8	1410.5	1541.0	1923.1	6023.9	13101.6	14894.1
1308.6	47.5°	1305.4	1273.5	1299.0	1445.5	1802.1	6571.5	14706.3	16642.1
1229.0	50°	1232.2	1171.7	1194.0	1350.0	1709.7	7759.1	16788.5	18963.1
1155.7	52.5°	1155.7	1076.1	1088.9	1232.2	1627.0	8889.4	19045.9	22026.0
1082.5	55°	1076.1	987.0	993.4	1114.4	1509.2	9058.1	21249.1	26203.2
999.7	57.5°	987.0	904.2	904.2	1006.1	1423.2	7851.4	22943.0	31386.6
897.9	60°	888.3	834.2	818.3	920.1	1499.6	5539.9	23140.4	34729.6
767.3	62.5°	780.0	751.4	729.1	837.4	1556.9	3282.6	21551.6	33920.9
604.9	65°	655.9	649.5	633.6	920.1	1311.8	1939.0	18501.5	31440.7
515.8	67.5°	550.8	541.3	541.3	964.7	996.6	1219.4	14454.8	28027.6
439.4	70°	474.4	439.4	439.4	729.1	604.9	843.7	10092.9	24343.9
363.0	72.5°	398.0	359.8	334.3	582.6	452.1	617.7	6307.2	20848.0
277.0	75°	318.4	289.7	257.9	385.2	337.5	468.0	3664.6	17272.5
175.1	77.5°	229.2	216.5	181.5	283.4	245.2	337.5	2180.9	13327.7
108.3	80°	117.8	121.0	114.6	162.4	165.6	229.2	1241.7	9121.8
70.0	82.5°	70.0	54.1	60.5	79.6	95.5	130.5	468.0	5361.6
50.9	85°	44.6	28.7	28.7	38.2	47.8	50.9	143.3	2174.6
25.5	87.5°	22.3	9.6	12.7	19.1	15.9	12.7	6.4	547.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)