

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: P956851

Luminaire Tested: **GALN-SB9B-850-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956851
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-SB9B-850-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 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: 37442 lumens
Efficiency: N/A
Efficacy: 113.6 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

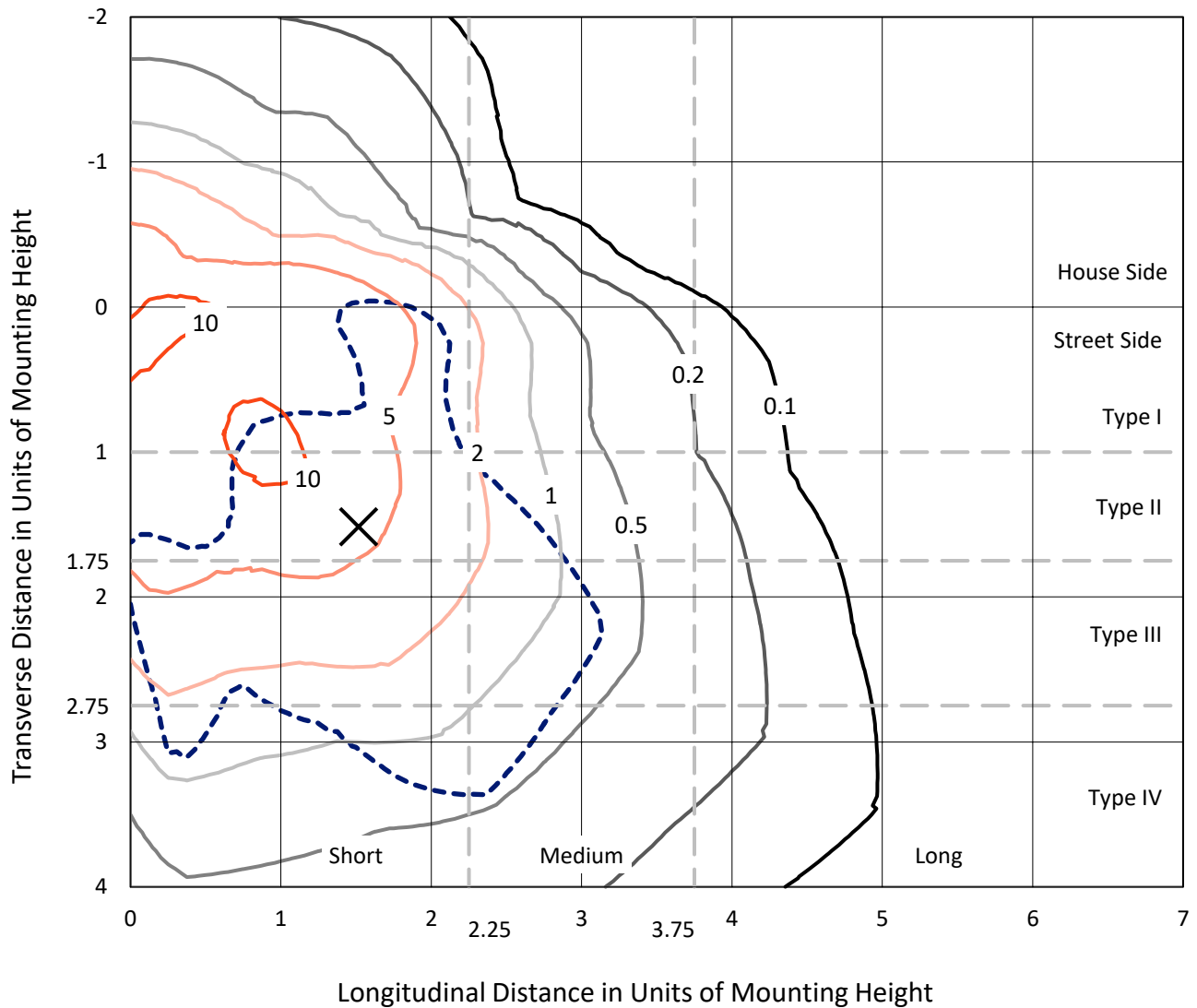
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

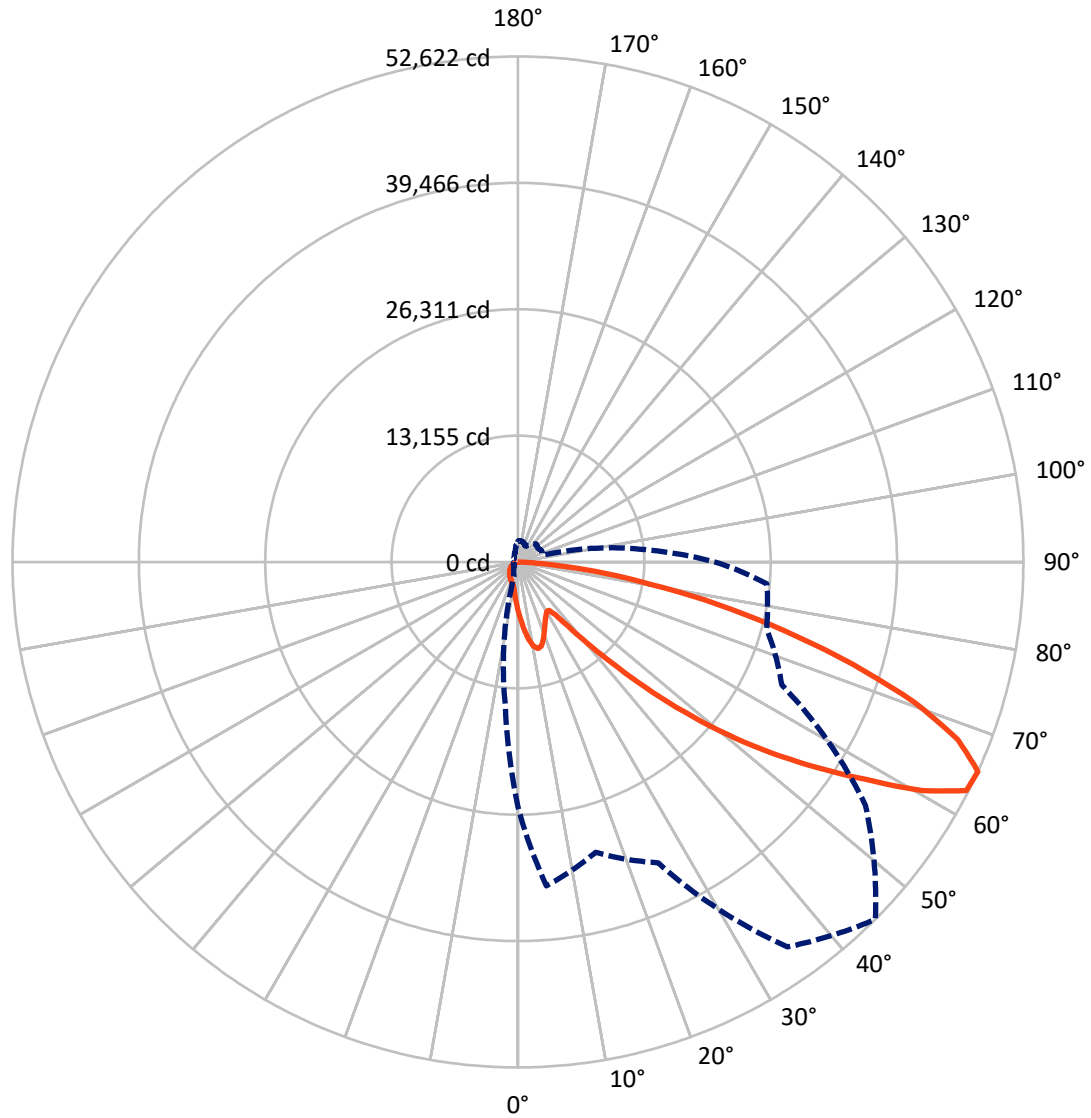
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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	7442.3	0.0	7442.3
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	29999.7	0.0	29999.7
	% Fixture	80.1	0.0	80.1
Total	Lumens	37442.0	0.0	37442.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.4	1.4
10°-20°	1530.1	4.1
20°-30°	2254.2	6.0
30°-40°	2896.0	7.7
40°-50°	4683.7	12.5
50°-60°	8213.4	21.9
60°-70°	10277.2	27.4
70°-80°	6005.5	16.0
80°-90°	1071.5	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°	37442.0	100.0
0°-180°	37442.0	100.0



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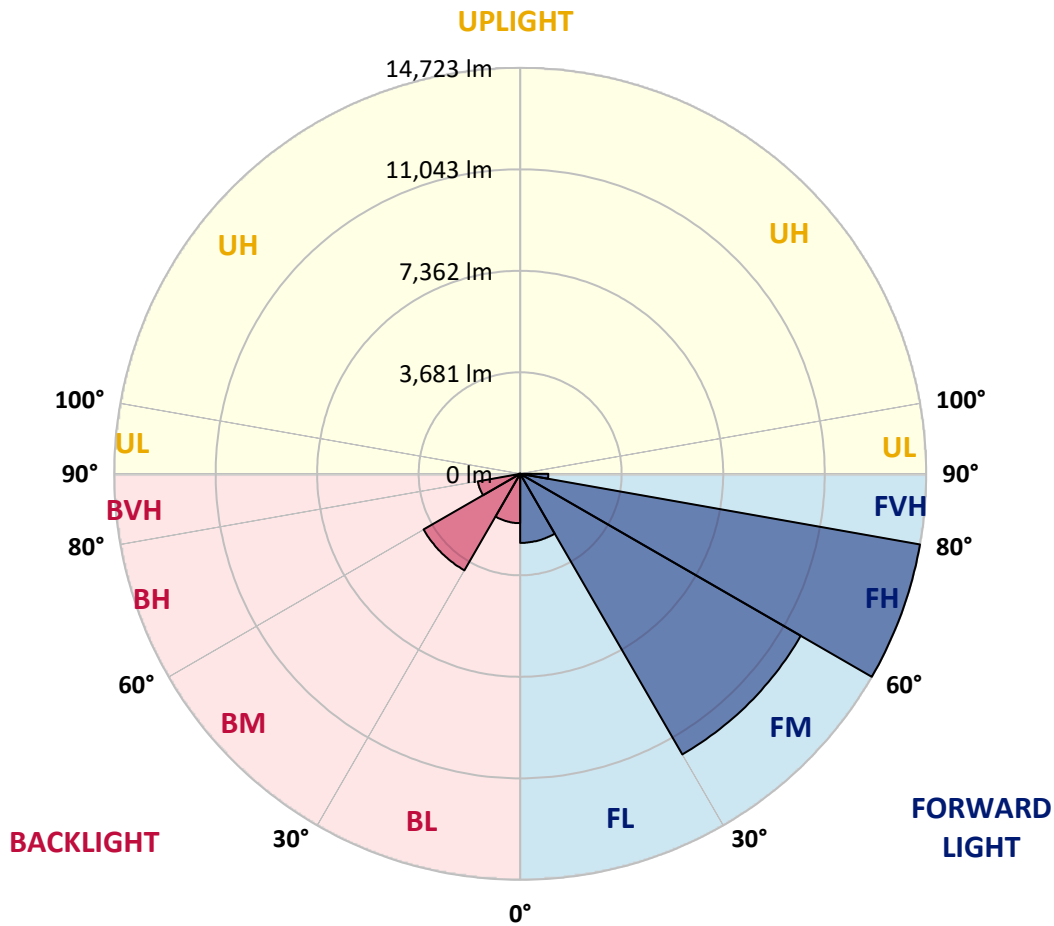
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2505.3	6.7			
FM (30°-60°)	11749.8	31.4			
FH (60°-80°)	14723.4	39.3			G5
FVH (80°-90°)	1021.3	2.7			G5
BL (0°-30°)	1789.4	4.8	B3/2500		
BM (30°-60°)	4043.4	10.8	B3/5000		
BH (60°-80°)	1559.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	50.2	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°	5184.5	5184.5	5184.5	5184.5	5184.5	5184.5	5184.5	5184.5	5184.5	5184.5
2.5°	5808.7	5852.6	5950.6	6002.2	6082.1	6087.3	6087.3	6017.7	6015.1	5873.2
5°	6492.3	6595.4	6827.6	7067.5	7119.0	7131.9	7106.1	6966.9	6863.7	6587.7
7.5°	7170.6	7369.2	7722.6	8042.5	8145.6	8145.6	8083.7	7856.7	7645.2	7245.4
10°	7732.9	7983.1	8462.9	8821.4	8940.1	8914.3	8787.9	8501.6	8210.1	7725.2
12.5°	8104.4	8385.5	8911.7	9200.6	9321.8	9254.8	9110.3	8831.7	8524.8	8014.1
15°	8290.1	8584.1	9040.7	9192.8	9159.3	9089.7	9071.6	8937.5	8705.3	8228.2
17.5°	8370.0	8643.4	8960.7	8865.3	8581.5	8527.4	8707.9	8878.2	8821.4	8413.9
20°	8444.8	8674.4	8769.8	8346.8	7851.6	7802.6	8148.2	8633.1	8880.7	8586.7
22.5°	8548.0	8689.9	8493.8	7800.0	7266.1	7152.6	7534.3	8264.3	8898.8	8805.9
25°	8689.9	8728.6	8189.5	7281.5	6745.0	6631.5	6987.5	7854.2	8867.8	9043.2
27.5°	8860.1	8780.2	7898.0	6848.2	6329.8	6224.0	6580.0	7459.5	8780.2	9280.5
30°	9081.9	8847.2	7609.1	6512.9	6033.1	5955.7	6298.8	7119.0	8671.8	9582.3
32.5°	9306.3	8875.6	7340.9	6316.9	5966.1	5994.4	6275.6	6935.9	8553.2	9871.2
35°	9548.8	8965.9	7209.3	6510.3	6525.8	6773.4	6889.5	7106.1	8535.1	10263.3
37.5°	9879.0	9167.1	7366.7	7472.4	8008.9	8522.2	8426.8	7939.3	8744.0	10848.8
40°	10353.6	9520.4	8052.8	9110.3	10211.7	11044.8	10681.1	9453.4	9383.7	11692.3
42.5°	11044.8	10082.7	9270.2	11111.9	12979.4	14351.6	13376.6	11405.9	10503.2	12896.8
45°	12066.3	10993.2	10743.0	13224.4	16391.8	18553.4	16526.0	13487.5	12071.4	14720.4
47.5°	13482.3	12331.9	12123.0	15450.4	20539.5	23335.5	20018.4	15416.9	13856.3	17206.9
50°	15362.7	14134.9	13430.7	17885.3	25086.9	28210.5	23508.3	17279.2	15901.8	20245.4
52.5°	17844.0	16649.8	14955.1	20204.1	29763.3	32982.3	27013.7	18914.5	18439.9	23771.4
55°	21228.2	20433.7	17039.3	22417.2	34437.1	37782.5	30382.3	20456.9	21793.0	27960.3
57.5°	25427.4	25994.8	20044.2	24983.7	38638.9	42729.7	33766.4	22613.3	26147.0	32644.4
60°	28135.7	33389.8	25798.8	28777.9	43413.3	48324.4	38404.1	26714.5	30722.8	34323.6
62.5°	27480.5	35742.2	32690.8	33622.0	47803.3	52392.0	42949.0	30833.7	31584.3	31850.0
65°	25471.2	33843.8	31285.1	34563.5	48915.0	52621.6	44163.8	30302.4	26791.8	26002.6
67.5°	22706.1	31592.0	27944.8	32066.6	46905.7	49412.9	41901.7	26804.7	20704.5	19512.9
70°	19721.8	29100.4	25752.4	29265.4	43075.4	43820.8	38055.9	23575.4	15228.6	13178.0
72.5°	16889.7	26505.5	24251.2	26394.6	37965.6	36423.2	33049.4	20720.0	11088.7	9505.0
75°	13993.0	22677.8	22112.9	22984.7	31246.4	28690.3	27459.9	17155.3	8702.8	6876.6
77.5°	10797.2	17720.2	19020.2	18406.3	21994.2	21310.7	21284.9	12891.7	6358.1	4588.7
80°	7389.9	12350.0	14859.7	12984.5	14274.2	13926.0	16030.7	8648.6	4611.9	2762.5
82.5°	4343.6	7518.8	10343.2	6285.9	7892.8	8101.8	9546.2	4206.9	2713.5	637.1
85°	1761.7	2968.8	4044.4	2460.7	3807.1	3211.3	3624.0	1181.3	755.8	15.5
87.5°	443.7	949.2	665.5	276.0	441.1	405.0	319.8	144.4	31.0	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
5184.5	0°	5184.5	5184.5	5184.5	5184.5	5184.5	5184.5	5184.5	5184.5	5184.5	5184.5
5857.7	2.5°	5757.1	5697.8	5550.8	5403.8	5285.1	5125.2	5019.4	4893.1	4771.8	4663.5
6528.4	5°	6365.9	6169.8	5901.6	5656.5	5406.3	5163.9	4924.0	4671.2	4439.1	4297.2
7095.8	7.5°	6861.1	6515.5	6159.5	5847.4	5545.6	5261.9	4944.6	4637.7	4274.0	4080.6
7529.2	10°	7230.0	6776.0	6309.1	5950.6	5646.2	5370.2	5102.0	4792.5	4354.0	4111.5
7792.3	12.5°	7472.4	6933.3	6386.5	5976.4	5635.9	5421.8	5303.2	5181.9	4746.0	4462.3
7985.7	15°	7640.1	7044.2	6440.7	5917.1	5499.2	5341.9	5460.5	5599.8	5321.2	4993.6
8186.9	17.5°	7823.2	7188.7	6463.9	5757.1	5233.5	5166.5	5473.4	5795.8	5782.9	5457.9
8377.8	20°	8016.7	7315.1	6448.4	5499.2	4911.1	4970.4	5362.5	5736.5	5893.8	5718.4
8597.0	22.5°	8215.3	7436.3	6389.1	5163.9	4609.3	4795.0	5187.1	5514.7	5700.4	5646.2
8865.3	25°	8465.5	7606.5	6301.4	4802.8	4359.1	4617.1	4983.3	5249.0	5378.0	5375.4
9154.2	27.5°	8764.7	7833.5	6255.0	4511.3	4181.1	4415.9	4740.9	4978.2	5068.4	5068.4
9512.7	30°	9112.9	8101.8	6203.4	4320.4	4078.0	4206.9	4459.7	4691.9	4782.1	4782.1
9904.8	32.5°	9499.8	8359.7	6079.6	4204.4	4000.6	4003.2	4163.1	4374.6	4482.9	4498.4
10394.8	35°	9964.1	8635.7	5808.7	4111.5	3910.3	3804.6	3881.9	4057.3	4186.3	4219.8
11093.8	37.5°	10572.8	8973.6	5421.8	3974.8	3771.0	3595.6	3613.7	3747.8	3889.7	3941.3
12058.5	40°	11390.5	9370.8	5019.4	3778.8	3575.0	3366.1	3358.3	3456.3	3595.6	3652.4
13363.7	42.5°	12471.2	9848.0	4635.1	3590.5	3337.7	3123.6	3110.7	3188.1	3309.3	3368.6
15086.7	45°	13853.8	10433.5	4305.0	3443.4	3105.6	2894.0	2888.9	2953.4	3059.1	3121.0
17292.0	47.5°	15775.4	11019.0	4080.6	3366.1	2922.4	2705.8	2716.1	2772.8	2868.3	2912.1
20147.4	50°	18279.9	11197.0	3967.1	3366.1	2824.4	2538.1	2589.7	2636.1	2708.3	2734.1
23570.2	52.5°	20683.9	10608.9	3863.9	3386.7	2837.3	2396.2	2507.1	2540.7	2602.6	2612.9
26742.8	55°	21862.7	9120.6	3722.0	3391.9	2917.3	2275.0	2440.1	2502.0	2525.2	2522.6
28584.5	57.5°	21457.7	7374.4	3482.1	3371.2	2971.4	2197.6	2357.5	2476.2	2491.7	2468.5
28233.7	60°	20036.5	5429.6	3299.0	3219.0	2950.8	2174.4	2231.1	2419.4	2442.7	2411.7
25530.5	62.5°	17653.2	3768.4	3157.1	2883.7	2860.5	2166.7	2032.5	2295.6	2352.4	2308.5
20521.4	65°	13897.6	2661.9	2718.6	2527.8	2664.5	2125.4	1826.2	2146.0	2223.4	2156.3
14888.1	67.5°	9404.4	1921.6	2202.8	2290.5	2347.2	2032.5	1676.6	1975.8	2079.0	1991.3
9554.0	70°	5078.8	1349.0	1454.8	1929.4	1993.8	1872.6	1542.5	1803.0	1921.6	1826.2
6791.5	72.5°	2999.8	969.8	1018.8	1550.2	1661.1	1648.2	1392.9	1601.8	1746.2	1632.7
4686.7	75°	1653.4	655.2	727.4	1124.6	1349.0	1271.6	1196.8	1356.7	1503.8	1392.9
2937.9	77.5°	740.3	392.1	505.6	737.7	1060.1	871.8	926.0	1057.5	1194.2	1078.2
1635.3	80°	286.3	219.2	335.3	402.4	771.2	482.3	595.8	779.0	877.0	784.1
356.0	82.5°	36.1	98.0	144.4	157.3	448.8	255.4	345.6	490.1	482.3	417.9
0.0	85°	0.0	18.1	20.6	10.3	193.5	92.9	113.5	159.9	149.6	113.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	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°
5184.5	0°	5184.5	5184.5	5184.5	5184.5	5184.5	5184.5	5184.5	5184.5	5184.5	5184.5
4642.9	2.5°	4516.5	4423.6	4377.2	4338.5	4374.6	4395.2	4395.2	4482.9	4534.5	4555.2
4206.9	5°	3980.0	3807.1	3691.1	3621.4	3644.6	3670.4	3698.8	3809.7	3884.5	3933.5
3905.2	7.5°	3556.9	3293.8	3131.3	3046.2	3059.1	3077.2	3100.4	3208.7	3283.5	3348.0
3848.4	10°	3348.0	2976.6	2762.5	2659.3	2641.3	2630.9	2623.2	2687.7	2744.4	2796.0
4080.6	12.5°	3358.3	2839.9	2579.4	2453.0	2398.8	2336.9	2287.9	2298.2	2334.3	2398.8
4495.8	15°	3489.9	2796.0	2483.9	2326.6	2236.3	2164.1	2104.8	2091.9	2104.8	2115.1
4970.4	17.5°	3667.9	2790.9	2401.4	2205.4	2112.5	2053.2	1999.0	1981.0	1983.5	1996.4
5285.1	20°	3809.7	2775.4	2308.5	2089.3	2006.7	1955.2	1901.0	1882.9	1888.1	1890.7
5316.1	22.5°	3884.5	2752.2	2205.4	1973.2	1903.6	1852.0	1803.0	1800.4	1800.4	1815.9
5148.4	25°	3884.5	2703.2	2112.5	1862.3	1800.4	1754.0	1694.6	1705.0	1710.1	1730.8
4887.9	27.5°	3791.7	2610.3	2037.7	1766.9	1702.4	1656.0	1601.8	1614.7	1622.4	1645.6
4630.0	30°	3673.0	2499.4	1952.6	1676.6	1601.8	1568.3	1521.8	1527.0	1537.3	1563.1
4390.1	32.5°	3546.6	2367.9	1882.9	1586.3	1511.5	1485.7	1434.1	1441.9	1452.2	1480.6
4152.8	35°	3407.3	2213.1	1800.4	1503.8	1429.0	1408.3	1349.0	1354.2	1369.6	1400.6
3897.4	37.5°	3260.3	2086.7	1717.9	1423.8	1346.4	1325.8	1263.9	1269.0	1287.1	1323.2
3629.2	40°	3115.9	1962.9	1630.2	1338.7	1261.3	1243.3	1176.2	1181.3	1202.0	1240.7
3358.3	42.5°	2958.5	1867.5	1516.7	1251.0	1168.5	1150.4	1088.5	1096.2	1119.4	1158.1
3108.1	45°	2770.2	1805.6	1390.3	1168.5	1075.6	1057.5	1000.8	1016.3	1042.1	1080.8
2894.0	47.5°	2576.8	1779.8	1284.5	1080.8	980.2	964.7	918.3	944.0	972.4	1003.4
2710.9	50°	2391.1	1746.2	1176.2	998.2	897.6	882.1	851.2	884.7	913.1	941.5
2579.4	52.5°	2179.6	1674.0	1078.2	926.0	828.0	822.8	807.3	838.3	864.1	889.9
2465.9	55°	1960.3	1557.9	993.1	861.5	768.7	773.8	766.1	791.9	812.5	835.7
2362.7	57.5°	1769.4	1410.9	926.0	791.9	717.1	732.5	722.2	735.1	748.0	776.4
2238.9	60°	1576.0	1235.5	851.2	709.3	665.5	683.5	655.2	652.6	657.7	665.5
2055.8	62.5°	1315.5	1052.4	758.3	637.1	608.7	616.5	562.3	521.0	521.0	528.8
1800.4	65°	1057.5	882.1	655.2	554.6	531.3	526.2	448.8	392.1	386.9	410.1
1503.8	67.5°	869.2	732.5	552.0	461.7	446.2	451.4	394.6	337.9	332.7	358.5
1225.2	70°	719.6	590.7	441.1	356.0	371.4	394.6	337.9	283.7	276.0	299.2
995.6	72.5°	572.6	461.7	337.9	263.1	306.9	335.3	276.0	224.4	219.2	239.9
768.7	75°	420.4	330.2	229.6	190.9	237.3	263.1	201.2	159.9	152.2	170.2
513.3	77.5°	260.5	185.7	144.4	113.5	162.5	175.4	105.8	92.9	90.3	103.2
312.1	80°	121.2	80.0	69.6	38.7	59.3	69.6	43.8	49.0	51.6	61.9
157.3	82.5°	33.5	12.9	2.6	0.0	0.0	20.6	10.3	20.6	25.8	38.7
12.9	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	12.9	23.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3
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°
5184.5	0°	5184.5	5184.5	5184.5	5184.5	5184.5	5184.5	5184.5	5184.5
4699.6	2.5°	4807.9	4911.1	5076.2	5246.4	5414.1	5584.3	5749.4	5808.7
4157.9	5°	4361.7	4599.0	4926.6	5277.4	5638.5	6004.8	6340.1	6492.3
3598.2	7.5°	3863.9	4204.4	4697.0	5246.4	5821.6	6396.8	6925.6	7170.6
3043.6	10°	3332.5	3763.3	4325.6	5068.4	5893.8	6688.3	7415.7	7732.9
2556.1	12.5°	2827.0	3278.4	3900.0	4789.9	5837.1	6855.9	7730.3	8104.4
2213.1	15°	2404.0	2803.8	3474.4	4459.7	5654.0	6866.3	7880.0	8290.1
2022.2	17.5°	2086.7	2347.2	3041.1	4093.4	5414.1	6770.8	7931.5	8370.0
1919.0	20°	1929.4	2001.6	2478.8	3624.0	5189.7	6680.5	7983.1	8444.8
1836.5	22.5°	1836.5	1854.6	2027.4	3017.9	4921.4	6652.2	8073.4	8548.0
1761.7	25°	1761.7	1766.9	1813.3	2391.1	4511.3	6634.1	8212.7	8689.9
1684.3	27.5°	1686.9	1686.9	1712.7	1926.8	3954.2	6556.7	8393.2	8860.1
1606.9	30°	1612.1	1612.1	1630.2	1705.0	3301.6	6404.6	8609.9	9081.9
1529.6	32.5°	1534.7	1534.7	1550.2	1604.4	2636.1	6213.7	8808.5	9306.3
1449.6	35°	1457.3	1452.2	1472.8	1529.6	2097.0	5971.2	9007.1	9548.8
1369.6	37.5°	1374.8	1372.2	1392.9	1457.3	1810.7	5690.1	9156.7	9879.0
1289.7	40°	1287.1	1287.1	1310.3	1380.0	1728.2	5336.7	9394.0	10353.6
1207.1	42.5°	1207.1	1202.0	1227.8	1312.9	1666.3	4998.8	9819.6	11044.8
1132.3	45°	1129.8	1119.4	1142.7	1248.4	1557.9	4880.2	10614.1	12066.3
1060.1	47.5°	1057.5	1031.7	1052.4	1171.0	1459.9	5323.8	11914.1	13482.3
995.6	50°	998.2	949.2	967.3	1093.6	1385.1	6285.9	13601.0	15362.7
936.3	52.5°	936.3	871.8	882.1	998.2	1318.1	7201.6	15429.7	17844.0
877.0	55°	871.8	799.6	804.8	902.8	1222.6	7338.3	17214.7	21228.2
809.9	57.5°	799.6	732.5	732.5	815.1	1153.0	6360.7	18586.9	25427.4
727.4	60°	719.6	675.8	662.9	745.4	1214.9	4488.1	18746.8	28135.7
621.6	62.5°	631.9	608.7	590.7	678.4	1261.3	2659.3	17459.7	27480.5
490.1	65°	531.3	526.2	513.3	745.4	1062.7	1570.8	14988.7	25471.2
417.9	67.5°	446.2	438.5	438.5	781.5	807.3	987.9	11710.3	22706.1
356.0	70°	384.3	356.0	356.0	590.7	490.1	683.5	8176.6	19721.8
294.0	72.5°	322.4	291.5	270.8	472.0	366.3	500.4	5109.7	16889.7
224.4	75°	257.9	234.7	208.9	312.1	273.4	379.2	2968.8	13993.0
141.9	77.5°	185.7	175.4	147.0	229.6	198.6	273.4	1766.9	10797.2
87.7	80°	95.4	98.0	92.9	131.5	134.1	185.7	1006.0	7389.9
56.7	82.5°	56.7	43.8	49.0	64.5	77.4	105.8	379.2	4343.6
41.3	85°	36.1	23.2	23.2	31.0	38.7	41.3	116.1	1761.7
20.6	87.5°	18.1	7.7	10.3	15.5	12.9	10.3	5.2	443.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)