

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: P955066

Luminaire Tested: **GALN-SB8A-850-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955066
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-SB8A-850-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 350mA 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: 26479 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

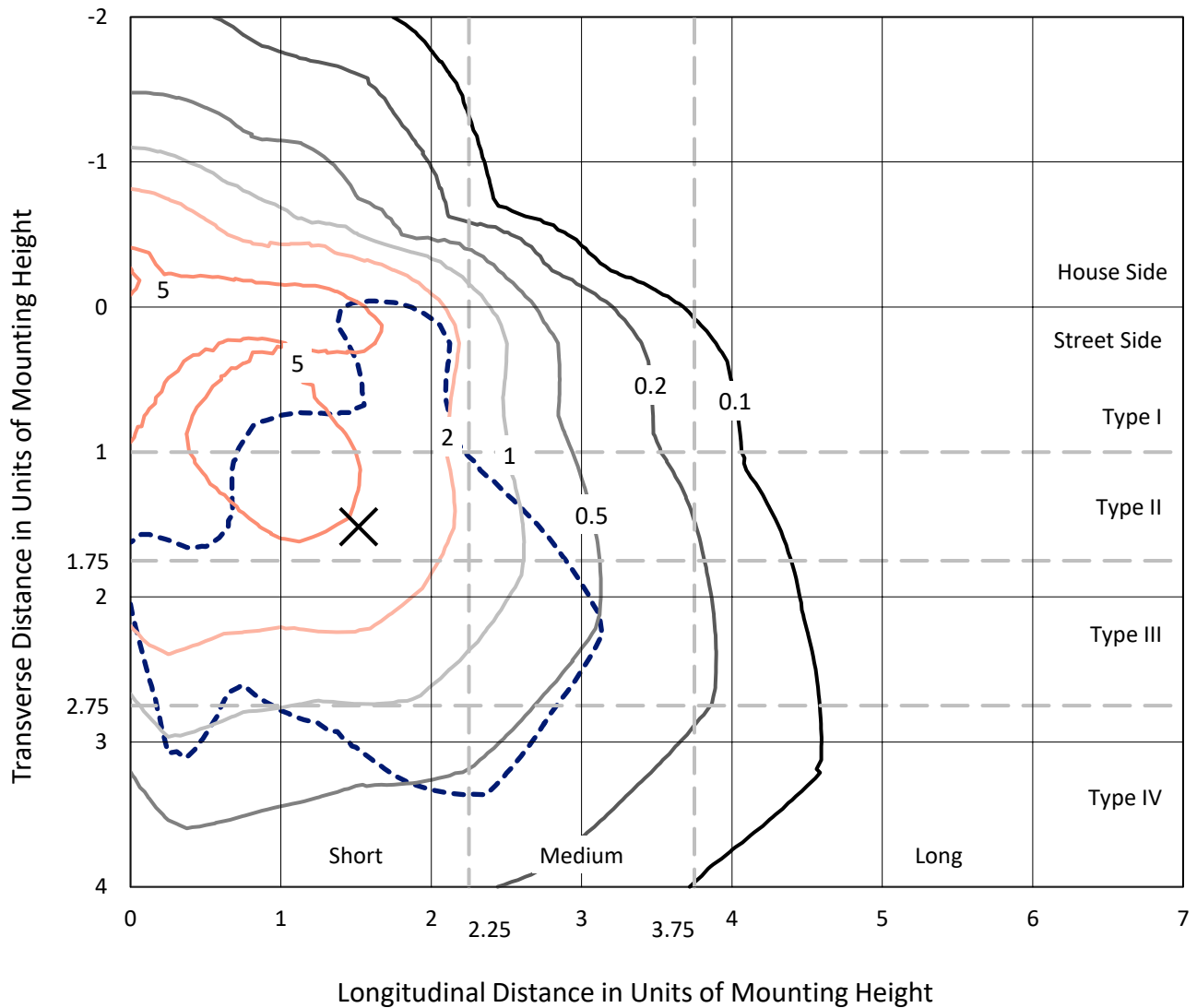
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

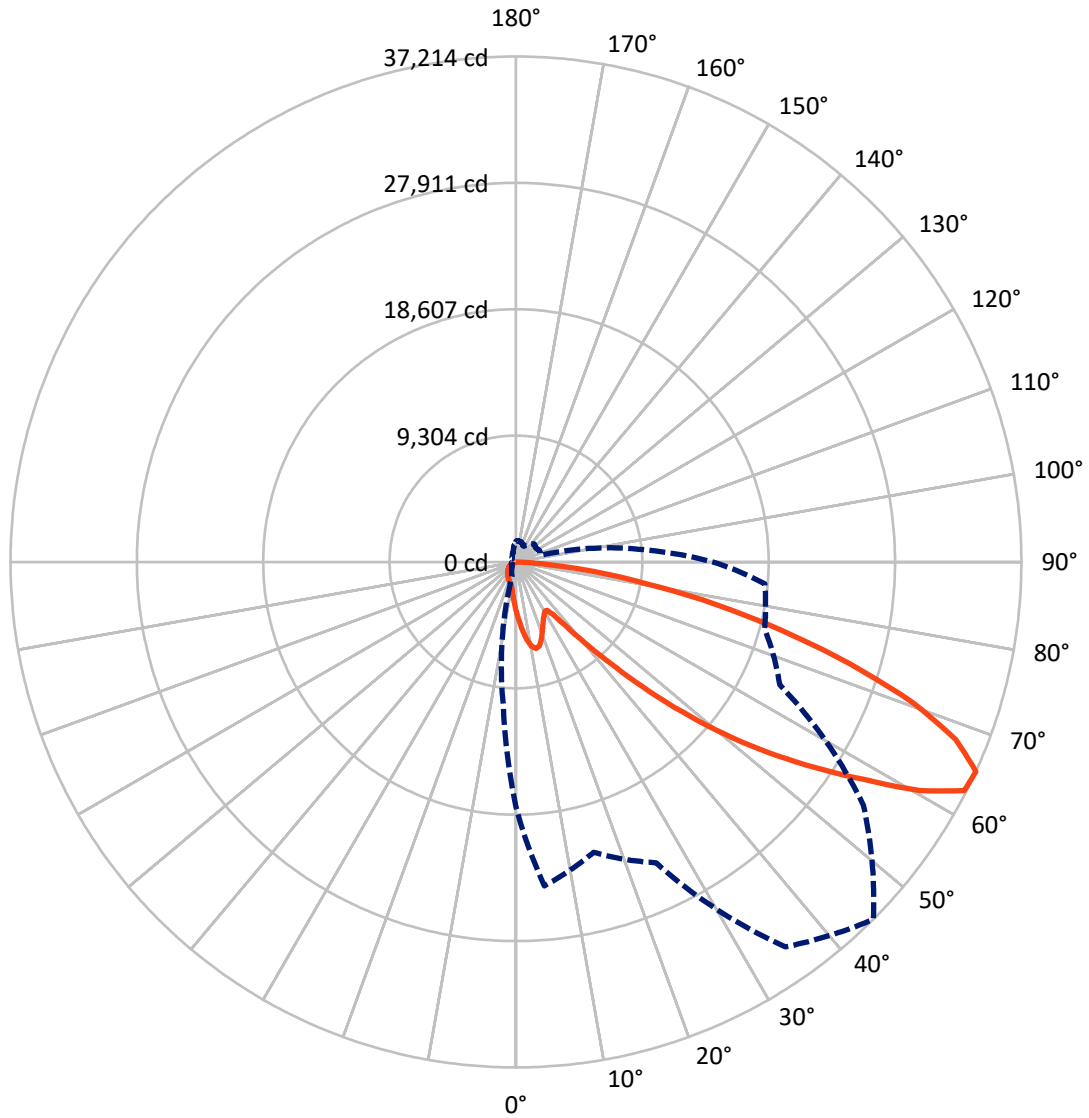
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	5263.2	0.0	5263.2
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	21215.8	0.0	21215.8
	% Fixture	80.1	0.0	80.1
Total	Lumens	26479.0	0.0	26479.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.0	1.4
10°-20°	1082.1	4.1
20°-30°	1594.2	6.0
30°-40°	2048.1	7.7
40°-50°	3312.3	12.5
50°-60°	5808.5	21.9
60°-70°	7268.0	27.4
70°-80°	4247.1	16.0
80°-90°	757.7	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°	26479.0	100.0
0°-180°	26479.0	100.0



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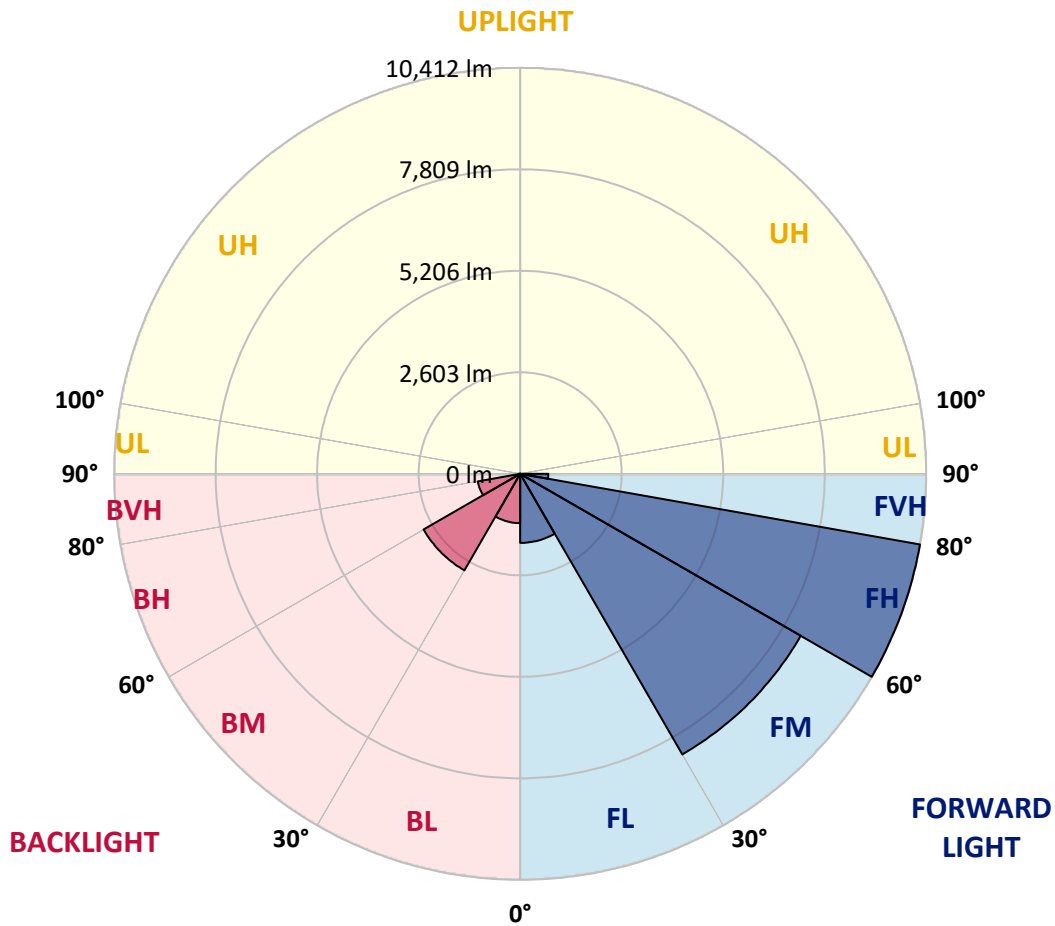
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1771.8	6.7			
FM (30°-60°)	8309.4	31.4			
FH (60°-80°)	10412.4	39.3			G4/12000
FVH (80°-90°)	722.2	2.7			G4/750
BL (0°-30°)	1265.5	4.8	B3/2500		
BM (30°-60°)	2859.5	10.8	B3/5000		
BH (60°-80°)	1102.7	4.2	B3/2500		G3/2500
BVH (80°-90°)	35.5	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5
2.5°	4107.9	4138.9	4208.3	4244.7	4301.3	4304.9	4304.9	4255.7	4253.9	4153.5
5°	4591.3	4664.3	4828.5	4998.1	5034.6	5043.7	5025.5	4927.0	4854.0	4658.8
7.5°	5071.1	5211.5	5461.4	5687.6	5760.6	5760.6	5716.8	5556.3	5406.7	5124.0
10°	5468.7	5645.7	5985.0	6238.5	6322.4	6304.2	6214.8	6012.3	5806.2	5463.3
12.5°	5731.4	5930.2	6302.4	6506.7	6592.4	6545.0	6442.8	6245.8	6028.7	5667.6
15°	5862.7	6070.7	6393.6	6501.2	6477.5	6428.2	6415.5	6320.6	6156.4	5819.0
17.5°	5919.3	6112.6	6337.0	6269.5	6068.9	6030.6	6158.3	6278.6	6238.5	5950.3
20°	5972.2	6134.5	6202.0	5902.9	5552.6	5518.0	5762.4	6105.4	6280.5	6072.5
22.5°	6045.2	6145.5	6006.8	5516.2	5138.6	5058.3	5328.3	5844.5	6293.2	6227.6
25°	6145.5	6172.8	5791.6	5149.5	4770.1	4689.8	4941.6	5554.5	6271.3	6395.4
27.5°	6265.9	6209.3	5585.5	4843.1	4476.4	4401.6	4653.3	5275.4	6209.3	6563.2
30°	6422.7	6256.8	5381.2	4605.9	4266.6	4211.9	4454.5	5034.6	6132.7	6776.6
32.5°	6581.4	6276.8	5191.5	4467.3	4219.2	4239.3	4438.1	4905.1	6048.8	6980.9
35°	6752.9	6340.7	5098.4	4604.1	4615.0	4790.2	4872.2	5025.5	6036.0	7258.2
37.5°	6986.4	6482.9	5209.7	5284.5	5663.9	6026.9	5959.4	5614.7	6183.8	7672.3
40°	7322.0	6732.9	5694.9	6442.8	7221.7	7810.9	7553.7	6685.4	6636.2	8268.8
42.5°	7810.9	7130.5	6555.9	7858.3	9179.0	10149.4	9459.9	8066.3	7427.8	9120.6
45°	8533.3	7774.4	7597.5	9352.3	11592.3	13120.9	11687.2	9538.4	8536.9	10410.3
47.5°	9534.7	8721.1	8573.4	10926.5	14525.5	16502.9	14157.0	10902.8	9799.2	12168.7
50°	10864.5	9996.2	9498.2	12648.5	17741.5	19950.5	16625.1	12219.8	11245.7	14317.6
52.5°	12619.3	11774.7	10576.3	14288.4	21048.6	23325.1	19104.1	13376.3	13040.7	16811.1
55°	15012.6	14450.7	12050.2	15853.5	24353.9	26719.8	21486.4	14467.1	15412.0	19773.5
57.5°	17982.2	18383.5	14175.3	17668.5	27325.4	30218.5	23879.6	15992.1	18491.2	23086.1
60°	19897.6	23613.3	18244.9	20351.8	30701.9	34175.0	27159.4	18892.5	21727.2	24273.7
62.5°	19434.2	25276.9	23119.0	23777.5	33806.5	37051.7	30373.5	21805.6	22336.4	22524.3
65°	18013.2	23934.4	22124.8	24443.3	34592.7	37214.0	31232.7	21429.8	18947.2	18389.0
67.5°	16057.8	22341.9	19762.6	22677.5	33171.7	34944.8	29632.9	18956.3	14642.3	13799.5
70°	13947.3	20579.8	18212.1	20696.5	30462.9	30990.1	26913.2	16672.5	10769.6	9319.5
72.5°	11944.4	18744.7	17150.4	18666.3	26849.3	25758.5	23372.5	14653.2	7841.9	6721.9
75°	9895.9	16037.7	15638.2	16254.8	22097.5	20289.8	19419.7	12132.3	6154.6	4863.1
77.5°	7635.8	12531.7	13451.1	13017.0	15554.3	15070.9	15052.7	9117.0	4496.5	3245.1
80°	5226.1	8733.9	10508.8	9182.7	10094.7	9848.5	11336.9	6116.3	3261.5	1953.6
82.5°	3071.8	5317.3	7314.7	4445.4	5581.8	5729.6	6751.1	2975.2	1919.0	450.6
85°	1245.9	2099.6	2860.2	1740.2	2692.4	2271.0	2562.9	835.4	534.5	10.9
87.5°	313.7	671.3	470.6	195.2	311.9	286.4	226.2	102.2	21.9	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°
3666.5	0°	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5
4142.6	2.5°	4071.5	4029.5	3925.5	3821.5	3737.6	3624.5	3549.8	3460.4	3374.6	3298.0
4616.9	5°	4501.9	4363.3	4173.6	4000.3	3823.4	3651.9	3482.3	3303.5	3139.3	3039.0
5018.2	7.5°	4852.2	4607.7	4356.0	4135.3	3921.9	3721.2	3496.9	3279.8	3022.6	2885.8
5324.6	10°	5113.0	4792.0	4461.8	4208.3	3993.0	3797.8	3608.1	3389.2	3079.1	2907.7
5510.7	12.5°	5284.5	4903.3	4516.5	4226.5	3985.7	3834.3	3750.4	3664.7	3356.4	3155.7
5647.5	15°	5403.1	4981.7	4554.8	4184.5	3889.0	3777.8	3861.7	3960.2	3763.2	3531.5
5789.8	17.5°	5532.6	5083.8	4571.3	4071.5	3701.2	3653.7	3870.8	4098.8	4089.7	3859.9
5924.8	20°	5669.4	5173.2	4560.3	3889.0	3473.1	3515.1	3792.4	4056.9	4168.1	4044.1
6079.8	22.5°	5809.8	5259.0	4518.4	3651.9	3259.7	3391.1	3668.3	3900.0	4031.3	3993.0
6269.5	25°	5986.8	5379.3	4456.3	3396.5	3082.8	3265.2	3524.2	3712.1	3803.3	3801.5
6473.8	27.5°	6198.4	5539.9	4423.5	3190.4	2956.9	3122.9	3352.7	3520.6	3584.4	3584.4
6727.4	30°	6444.6	5729.6	4387.0	3055.4	2883.9	2975.2	3153.9	3318.1	3381.9	3381.9
7004.6	32.5°	6718.3	5912.0	4299.5	2973.3	2829.2	2831.0	2944.1	3093.7	3170.3	3181.3
7351.2	35°	7046.6	6107.2	4107.9	2907.7	2765.4	2690.6	2745.3	2869.4	2960.6	2984.3
7845.6	37.5°	7477.1	6346.1	3834.3	2811.0	2666.9	2542.8	2555.6	2650.5	2750.8	2787.3
8527.8	40°	8055.3	6627.1	3549.8	2672.3	2528.2	2380.5	2375.0	2444.3	2542.8	2583.0
9450.8	42.5°	8819.7	6964.5	3278.0	2539.2	2360.4	2209.0	2199.9	2254.6	2340.4	2382.3
10669.3	45°	9797.4	7378.6	3044.5	2435.2	2196.2	2046.7	2043.0	2088.6	2163.4	2207.2
12228.9	47.5°	11156.4	7792.7	2885.8	2380.5	2066.7	1913.5	1920.8	1960.9	2028.4	2059.4
14248.3	50°	12927.6	7918.5	2805.5	2380.5	1997.4	1794.9	1831.4	1864.3	1915.3	1933.6
16668.9	52.5°	14627.7	7502.6	2732.5	2395.1	2006.5	1694.6	1773.1	1796.8	1840.5	1847.8
18912.5	55°	15461.3	6450.1	2632.2	2398.7	2063.1	1608.9	1725.6	1769.4	1785.8	1784.0
20215.0	57.5°	15174.9	5215.2	2462.6	2384.1	2101.4	1554.2	1667.3	1751.2	1762.1	1745.7
19966.9	60°	14169.8	3839.8	2333.1	2276.5	2086.8	1537.7	1577.9	1711.0	1727.4	1705.6
18055.2	62.5°	12484.3	2665.0	2232.7	2039.4	2023.0	1532.3	1437.4	1623.5	1663.6	1632.6
14512.8	65°	9828.4	1882.5	1922.6	1787.6	1884.3	1503.1	1291.5	1517.7	1572.4	1525.0
10528.9	67.5°	6650.8	1359.0	1557.8	1619.8	1660.0	1437.4	1185.7	1397.3	1470.2	1408.2
6756.6	70°	3591.7	954.0	1028.8	1364.4	1410.0	1324.3	1090.8	1275.1	1359.0	1291.5
4802.9	72.5°	2121.5	685.9	720.5	1096.3	1174.7	1165.6	985.0	1132.8	1234.9	1154.7
3314.4	75°	1169.3	463.3	514.4	795.3	954.0	899.3	846.4	959.5	1063.5	985.0
2077.7	77.5°	523.5	277.3	357.5	521.7	749.7	616.6	654.9	747.9	844.6	762.5
1156.5	80°	202.5	155.1	237.1	284.6	545.4	341.1	421.4	550.9	620.2	554.5
251.7	82.5°	25.5	69.3	102.2	111.3	317.4	180.6	244.4	346.6	341.1	295.5
0.0	85°	0.0	12.8	14.6	7.3	136.8	65.7	80.3	113.1	105.8	80.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	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°
3666.5	0°	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5
3283.4	2.5°	3194.0	3128.4	3095.5	3068.2	3093.7	3108.3	3108.3	3170.3	3206.8	3221.4
2975.2	5°	2814.6	2692.4	2610.3	2561.1	2577.5	2595.7	2615.8	2694.2	2747.1	2781.8
2761.7	7.5°	2515.5	2329.4	2214.5	2154.3	2163.4	2176.2	2192.6	2269.2	2322.1	2367.7
2721.6	10°	2367.7	2105.0	1953.6	1880.7	1867.9	1860.6	1855.1	1900.7	1940.9	1977.4
2885.8	12.5°	2375.0	2008.4	1824.1	1734.7	1696.4	1652.7	1618.0	1625.3	1650.8	1696.4
3179.5	15°	2468.0	1977.4	1756.6	1645.4	1581.5	1530.4	1488.5	1479.4	1488.5	1495.8
3515.1	17.5°	2593.9	1973.7	1698.3	1559.6	1494.0	1452.0	1413.7	1400.9	1402.8	1411.9
3737.6	20°	2694.2	1962.8	1632.6	1477.5	1419.2	1382.7	1344.4	1331.6	1335.3	1337.1
3759.5	22.5°	2747.1	1946.3	1559.6	1395.5	1346.2	1309.7	1275.1	1273.2	1273.2	1284.2
3641.0	25°	2747.1	1911.7	1494.0	1317.0	1273.2	1240.4	1198.5	1205.7	1209.4	1224.0
3456.7	27.5°	2681.5	1846.0	1441.1	1249.5	1203.9	1171.1	1132.8	1141.9	1147.4	1163.8
3274.3	30°	2597.6	1767.6	1380.9	1185.7	1132.8	1109.1	1076.2	1079.9	1087.2	1105.4
3104.7	32.5°	2508.2	1674.5	1331.6	1121.8	1068.9	1050.7	1014.2	1019.7	1027.0	1047.0
2936.8	35°	2409.7	1565.1	1273.2	1063.5	1010.6	996.0	954.0	957.7	968.6	990.5
2756.3	37.5°	2305.7	1475.7	1214.9	1006.9	952.2	937.6	893.8	897.5	910.2	935.8
2566.5	40°	2203.5	1388.2	1152.8	946.7	892.0	879.2	831.8	835.4	850.0	877.4
2375.0	42.5°	2092.3	1320.7	1072.6	884.7	826.3	813.6	769.8	775.3	791.7	819.0
2198.1	45°	1959.1	1276.9	983.2	826.3	760.7	747.9	707.8	718.7	736.9	764.3
2046.7	47.5°	1822.3	1258.6	908.4	764.3	693.2	682.2	649.4	667.6	687.7	709.6
1917.2	50°	1691.0	1234.9	831.8	705.9	634.8	623.9	602.0	625.7	645.7	665.8
1824.1	52.5°	1541.4	1183.9	762.5	654.9	585.5	581.9	571.0	592.8	611.1	629.3
1743.9	55°	1386.3	1101.8	702.3	609.3	543.6	547.2	541.8	560.0	574.6	591.0
1670.9	57.5°	1251.4	997.8	654.9	560.0	507.1	518.1	510.8	519.9	529.0	549.1
1583.3	60°	1114.5	873.8	602.0	501.6	470.6	483.4	463.3	461.5	465.2	470.6
1453.8	62.5°	930.3	744.2	536.3	450.6	430.5	436.0	397.7	368.5	368.5	373.9
1273.2	65°	747.9	623.9	463.3	392.2	375.8	372.1	317.4	277.3	273.6	290.0
1063.5	67.5°	614.7	518.1	390.4	326.5	315.6	319.2	279.1	239.0	235.3	253.6
866.5	70°	508.9	417.7	311.9	251.7	262.7	279.1	239.0	200.7	195.2	211.6
704.1	72.5°	405.0	326.5	239.0	186.1	217.1	237.1	195.2	158.7	155.1	169.6
543.6	75°	297.3	233.5	162.3	135.0	167.8	186.1	142.3	113.1	107.6	120.4
363.0	77.5°	184.2	131.3	102.2	80.3	114.9	124.0	74.8	65.7	63.8	73.0
220.7	80°	85.7	56.5	49.3	27.4	42.0	49.3	31.0	34.7	36.5	43.8
111.3	82.5°	23.7	9.1	1.8	0.0	0.0	14.6	7.3	14.6	18.2	27.4
9.1	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	9.1	16.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3
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°
3666.5	0°	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5
3323.6	2.5°	3400.2	3473.1	3589.9	3710.3	3828.8	3949.2	4066.0	4107.9
2940.5	5°	3084.6	3252.4	3484.1	3732.2	3987.5	4246.6	4483.7	4591.3
2544.7	7.5°	2732.5	2973.3	3321.7	3710.3	4117.1	4523.8	4897.8	5071.1
2152.5	10°	2356.8	2661.4	3059.1	3584.4	4168.1	4730.0	5244.4	5468.7
1807.7	12.5°	1999.2	2318.5	2758.1	3387.4	4128.0	4848.5	5466.9	5731.4
1565.1	15°	1700.1	1982.8	2457.1	3153.9	3998.5	4855.8	5572.7	5862.7
1430.1	17.5°	1475.7	1660.0	2150.6	2894.9	3828.8	4788.3	5609.2	5919.3
1357.2	20°	1364.4	1415.5	1753.0	2562.9	3670.1	4724.5	5645.7	5972.2
1298.8	22.5°	1298.8	1311.5	1433.8	2134.2	3480.4	4704.4	5709.5	6045.2
1245.9	25°	1245.9	1249.5	1282.4	1691.0	3190.4	4691.7	5808.0	6145.5
1191.2	27.5°	1193.0	1193.0	1211.2	1362.6	2796.4	4636.9	5935.7	6265.9
1136.4	30°	1140.1	1140.1	1152.8	1205.7	2334.9	4529.3	6088.9	6422.7
1081.7	32.5°	1085.4	1085.4	1096.3	1134.6	1864.3	4394.3	6229.4	6581.4
1025.2	35°	1030.6	1027.0	1041.6	1081.7	1483.0	4222.9	6369.8	6752.9
968.6	37.5°	972.3	970.4	985.0	1030.6	1280.5	4024.0	6475.6	6986.4
912.1	40°	910.2	910.2	926.7	975.9	1222.2	3774.1	6643.5	7322.0
853.7	42.5°	853.7	850.0	868.3	928.5	1178.4	3535.2	6944.4	7810.9
800.8	45°	799.0	791.7	808.1	882.9	1101.8	3451.2	7506.3	8533.3
749.7	47.5°	747.9	729.7	744.2	828.2	1032.5	3765.0	8425.6	9534.7
704.1	50°	705.9	671.3	684.0	773.4	979.6	4445.4	9618.6	10864.5
662.2	52.5°	662.2	616.6	623.9	705.9	932.1	5093.0	10911.9	12619.3
620.2	55°	616.6	565.5	569.1	638.4	864.6	5189.6	12174.2	15012.6
572.8	57.5°	565.5	518.1	518.1	576.4	815.4	4498.3	13144.7	17982.2
514.4	60°	508.9	477.9	468.8	527.2	859.2	3174.0	13257.8	19897.6
439.6	62.5°	446.9	430.5	417.7	479.7	892.0	1880.7	12347.5	19434.2
346.6	65°	375.8	372.1	363.0	527.2	751.5	1110.9	10600.0	18013.2
295.5	67.5°	315.6	310.1	310.1	552.7	571.0	698.6	8281.5	16057.8
251.7	70°	271.8	251.7	251.7	417.7	346.6	483.4	5782.5	13947.3
208.0	72.5°	228.0	206.1	191.5	333.8	259.0	353.9	3613.6	11944.4
158.7	75°	182.4	166.0	147.8	220.7	193.4	268.1	2099.6	9895.9
100.3	77.5°	131.3	124.0	104.0	162.3	140.5	193.4	1249.5	7635.8
62.0	80°	67.5	69.3	65.7	93.0	94.9	131.3	711.4	5226.1
40.1	82.5°	40.1	31.0	34.7	45.6	54.7	74.8	268.1	3071.8
29.2	85°	25.5	16.4	16.4	21.9	27.4	29.2	82.1	1245.9
14.6	87.5°	12.8	5.5	7.3	10.9	9.1	7.3	3.6	313.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)