

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: P951412

Luminaire Tested: **GALN-SB5C-827-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951412
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-SB5C-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 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: 25106 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

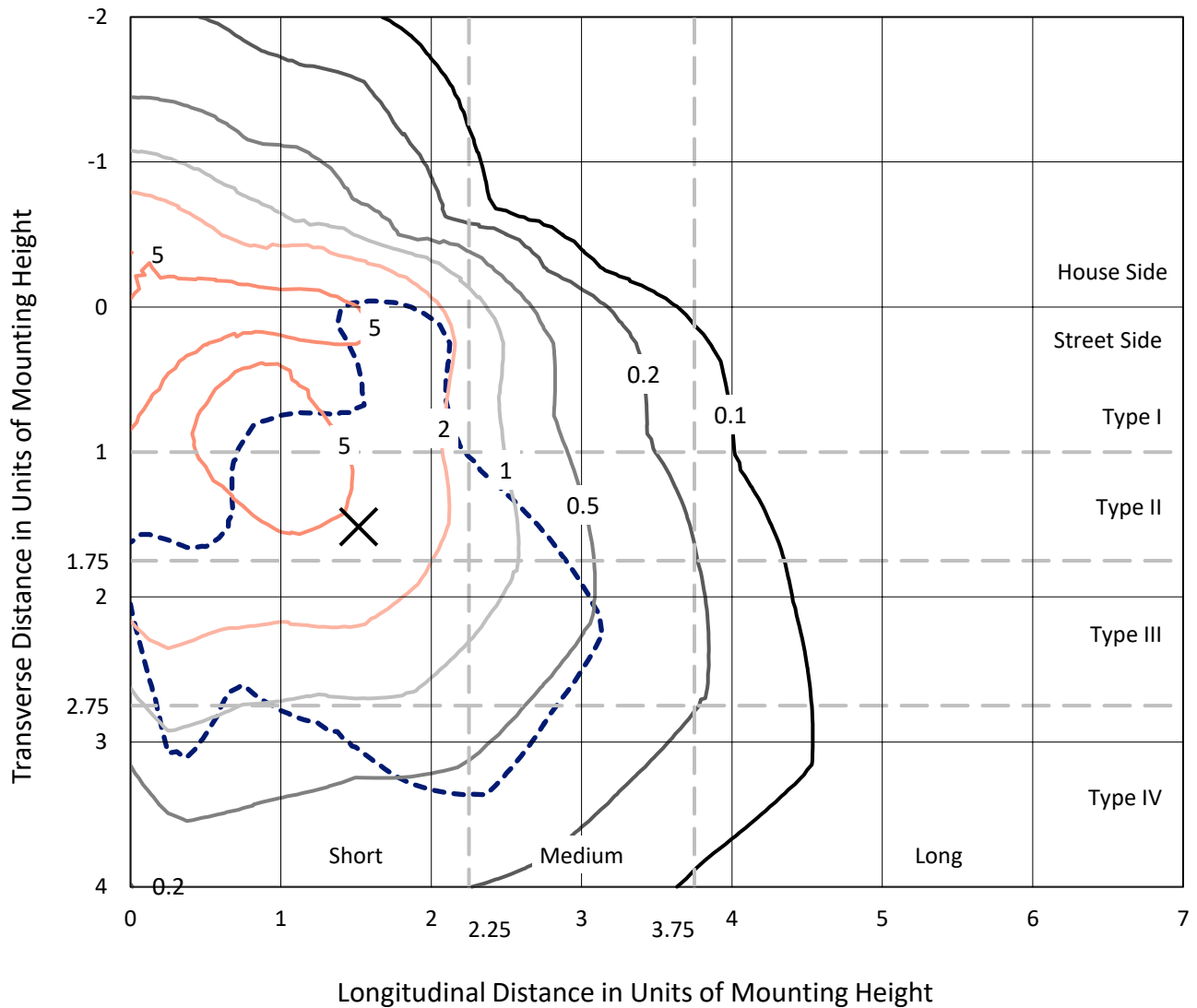
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

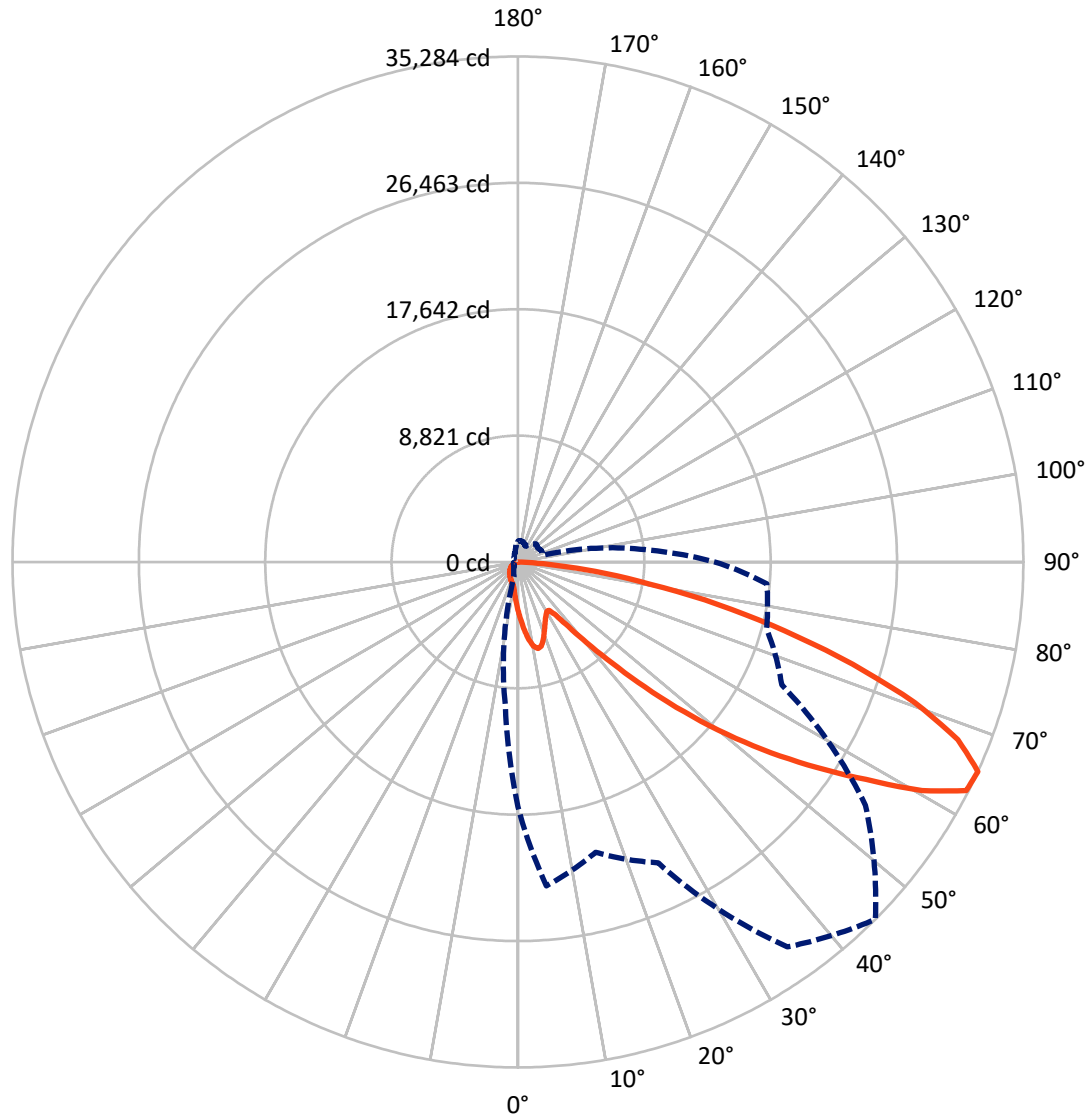
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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
House Side	Lumens	4990.3	0.0	4990.3
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	20115.7	0.0	20115.7
	% Fixture	80.1	0.0	80.1
Total	Lumens	25106.0	0.0	25106.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.3	1.4
10°-20°	1026.0	4.1
20°-30°	1511.5	6.0
30°-40°	1941.9	7.7
40°-50°	3140.6	12.5
50°-60°	5507.3	21.9
60°-70°	6891.2	27.4
70°-80°	4026.9	16.0
80°-90°	718.5	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°	25106.0	100.0
0°-180°	25106.0	100.0



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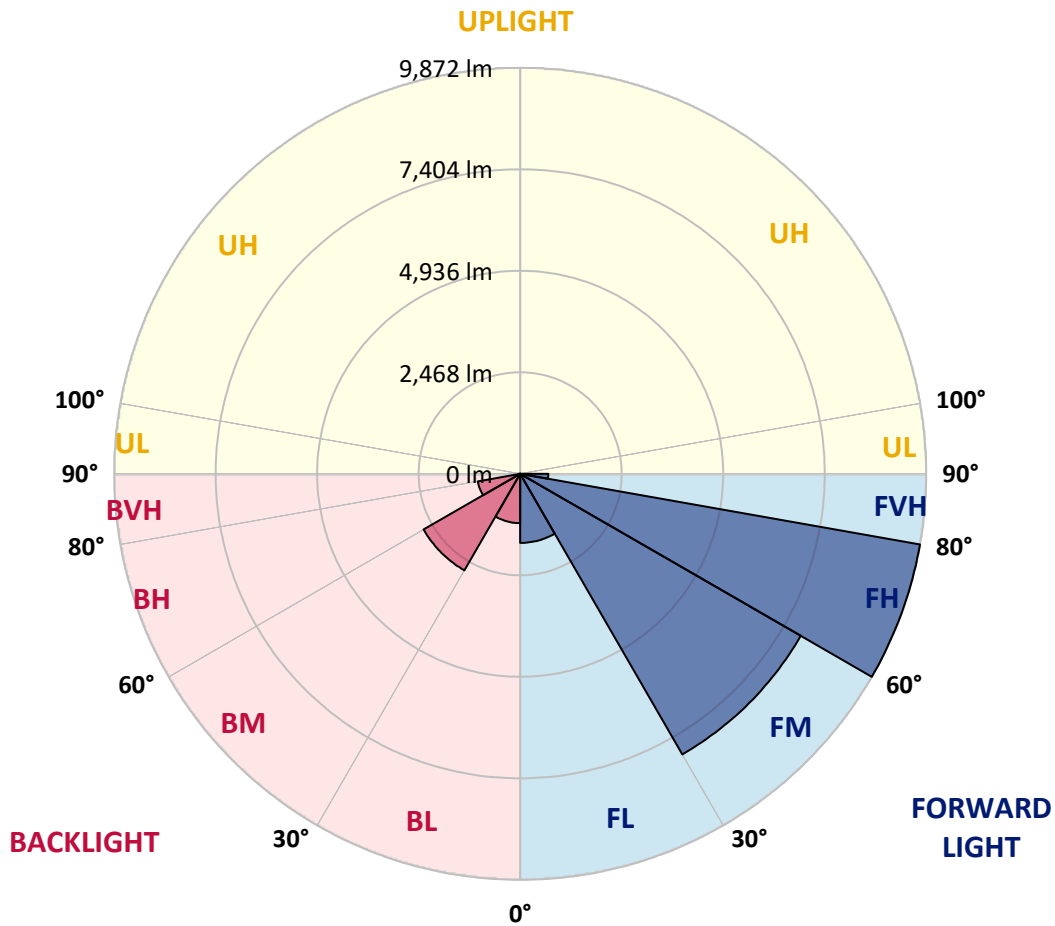
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1679.9	6.7			
FM (30°-60°)	7878.6	31.4			
FH (60°-80°)	9872.5	39.3			G4/12000
FVH (80°-90°)	684.8	2.7			G4/750
BL (0°-30°)	1199.9	4.8	B3/2500		
BM (30°-60°)	2711.2	10.8	B3/5000		
BH (60°-80°)	1045.6	4.2	B3/2500		G3/2500
BVH (80°-90°)	33.7	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°	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4
2.5°	3894.9	3924.3	3990.1	4024.6	4078.3	4081.7	4081.7	4035.0	4033.3	3938.2
5°	4353.3	4422.4	4578.1	4738.9	4773.5	4782.2	4764.9	4671.5	4602.3	4417.2
7.5°	4808.1	4941.3	5178.2	5392.7	5461.9	5461.9	5420.4	5268.2	5126.4	4858.3
10°	5185.2	5352.9	5674.6	5915.0	5994.6	5977.3	5892.5	5700.6	5505.1	5180.0
12.5°	5434.2	5622.7	5975.6	6169.3	6250.6	6205.6	6108.7	5921.9	5716.1	5373.7
15°	5558.7	5755.9	6062.0	6164.1	6141.6	6094.9	6082.8	5992.9	5837.2	5517.2
17.5°	5612.4	5795.7	6008.4	5944.4	5754.2	5717.9	5838.9	5953.1	5915.0	5641.8
20°	5662.5	5816.4	5880.4	5596.8	5264.7	5231.9	5463.6	5788.8	5954.8	5757.6
22.5°	5731.7	5826.8	5695.4	5230.1	4872.1	4796.0	5052.0	5541.4	5966.9	5904.7
25°	5826.8	5852.8	5491.3	4882.5	4522.8	4446.7	4685.3	5266.5	5946.2	6063.8
27.5°	5941.0	5887.4	5295.9	4591.9	4244.3	4173.4	4412.1	5001.8	5887.4	6222.9
30°	6089.7	5932.3	5102.1	4367.1	4045.4	3993.5	4223.5	4773.5	5814.7	6425.2
32.5°	6240.2	5951.4	4922.3	4235.6	4000.4	4019.5	4208.0	4650.7	5735.2	6619.0
35°	6402.8	6011.9	4834.1	4365.4	4375.7	4541.8	4619.6	4764.9	5723.1	6881.8
37.5°	6624.1	6146.8	4939.6	5010.5	5370.2	5714.4	5650.4	5323.5	5863.1	7274.4
40°	6942.4	6383.7	5399.6	6108.7	6847.3	7405.9	7162.0	6338.8	6292.1	7840.0
42.5°	7405.9	6760.8	6216.0	7450.9	8703.1	9623.2	8969.4	7648.0	7042.7	8647.7
45°	8090.8	7371.3	7203.5	8867.4	10991.2	12440.6	11081.2	9043.8	8094.3	9870.5
47.5°	9040.3	8268.9	8128.8	10360.0	13772.3	15647.2	13423.0	10337.5	9291.1	11537.8
50°	10301.1	9477.9	9005.7	11992.6	16821.5	18916.0	15763.0	11586.2	10662.6	13575.2
52.5°	11965.0	11164.2	10027.9	13547.5	19957.2	22115.6	18113.5	12682.7	12364.5	15939.5
55°	14234.1	13701.4	11425.3	15031.4	23091.1	25334.3	20372.3	13717.0	14612.9	18748.2
57.5°	17049.8	17430.3	13440.3	16752.3	25908.5	28651.6	22641.4	15162.9	17532.4	21889.1
60°	18865.8	22388.9	17298.9	19296.5	29109.9	32403.0	25751.1	17912.9	20600.6	23015.0
62.5°	18426.5	23966.3	21920.2	22544.6	32053.6	35130.4	28798.6	20674.9	21178.2	21356.4
65°	17079.2	22693.3	20977.6	23175.9	32799.0	35284.4	29613.2	20318.6	17964.7	17435.5
67.5°	15225.2	21183.4	18737.8	21501.7	31451.7	33132.8	28096.4	17973.4	13883.0	13084.0
70°	13224.1	19512.7	17267.7	19623.4	28883.3	29383.2	25517.6	15808.0	10211.2	8836.2
72.5°	11325.0	17772.8	16261.1	17698.4	25457.1	24422.9	22160.6	13893.4	7435.3	6373.4
75°	9382.8	15206.1	14827.4	15411.9	20951.7	19237.7	18412.7	11503.2	5835.5	4611.0
77.5°	7239.9	11881.9	12753.6	12342.0	14747.8	14289.5	14272.2	8644.2	4263.3	3076.9
80°	4955.1	8281.0	9963.9	8706.5	9571.3	9337.8	10749.1	5799.2	3092.4	1852.3
82.5°	2912.5	5041.6	6935.5	4214.9	5292.4	5432.5	6401.0	2820.9	1819.5	427.2
85°	1181.3	1990.7	2711.9	1650.0	2552.8	2153.3	2430.0	792.1	506.8	10.4
87.5°	297.5	636.5	446.2	185.1	295.8	271.5	214.5	96.9	20.8	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°
3476.4	0°	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4
3927.8	2.5°	3860.3	3820.6	3722.0	3623.4	3543.8	3436.6	3365.7	3280.9	3199.7	3127.0
4377.5	5°	4268.5	4137.1	3957.2	3792.9	3625.1	3462.5	3301.7	3132.2	2976.5	2881.4
4758.0	7.5°	4600.6	4368.8	4130.1	3920.9	3718.5	3528.3	3315.5	3109.7	2865.8	2736.1
5048.5	10°	4847.9	4543.5	4230.5	3990.1	3786.0	3600.9	3421.0	3213.5	2919.5	2756.9
5224.9	12.5°	5010.5	4649.0	4282.3	4007.3	3779.0	3635.5	3555.9	3474.6	3182.4	2992.1
5354.7	15°	5122.9	4723.4	4318.7	3967.6	3687.4	3581.9	3661.4	3754.8	3568.0	3348.4
5489.6	17.5°	5245.7	4820.2	4334.2	3860.3	3509.2	3464.3	3670.1	3886.3	3877.6	3659.7
5617.5	20°	5375.4	4905.0	4323.9	3687.4	3293.0	3332.8	3595.7	3846.5	3952.0	3834.4
5764.6	22.5°	5508.6	4986.3	4284.1	3462.5	3090.7	3215.2	3478.1	3697.8	3822.3	3786.0
5944.4	25°	5676.4	5100.4	4225.3	3220.4	2922.9	3095.9	3341.5	3519.6	3606.1	3604.4
6138.1	27.5°	5877.0	5252.6	4194.1	3025.0	2803.6	2961.0	3178.9	3338.0	3398.5	3398.5
6378.5	30°	6110.5	5432.5	4159.5	2897.0	2734.4	2820.9	2990.4	3146.0	3206.6	3206.6
6641.4	32.5°	6369.9	5605.4	4076.5	2819.2	2682.5	2684.2	2791.5	2933.3	3005.9	3016.3
6970.1	35°	6681.2	5790.5	3894.9	2756.9	2622.0	2551.1	2603.0	2720.6	2807.0	2829.5
7438.8	37.5°	7089.4	6017.1	3635.5	2665.2	2528.6	2411.0	2423.1	2513.0	2608.1	2642.7
8085.6	40°	7637.7	6283.4	3365.7	2533.8	2397.1	2257.1	2251.9	2317.6	2411.0	2449.0
8960.8	42.5°	8362.3	6603.4	3108.0	2407.5	2238.0	2094.5	2085.8	2137.7	2219.0	2258.8
10116.1	45°	9289.4	6996.0	2886.6	2308.9	2082.4	1940.5	1937.1	1980.3	2051.2	2092.7
11594.8	47.5°	10577.9	7388.6	2736.1	2257.1	1959.6	1814.3	1821.2	1859.3	1923.2	1952.7
13509.4	50°	12257.3	7507.9	2660.0	2257.1	1893.8	1701.9	1736.5	1767.6	1816.0	1833.3
15804.5	52.5°	13869.2	7113.6	2590.9	2270.9	1902.5	1606.7	1681.1	1703.6	1745.1	1752.0
17931.9	55°	14659.6	6115.7	2495.7	2274.3	1956.1	1525.5	1636.1	1677.7	1693.2	1691.5
19166.8	57.5°	14388.1	4944.8	2334.9	2260.5	1992.4	1473.6	1580.8	1660.4	1670.7	1655.2
18931.6	60°	13435.1	3640.7	2212.1	2158.5	1978.6	1458.0	1496.1	1622.3	1637.9	1617.1
17119.0	62.5°	11837.0	2526.9	2117.0	1933.6	1918.1	1452.8	1362.9	1539.3	1577.3	1547.9
13760.2	65°	9318.8	1784.9	1822.9	1695.0	1786.6	1425.1	1224.5	1439.0	1490.9	1445.9
9982.9	67.5°	6305.9	1288.5	1477.0	1535.8	1573.9	1362.9	1124.2	1324.8	1394.0	1335.2
6406.2	70°	3405.5	904.6	975.5	1293.7	1336.9	1255.6	1034.3	1208.9	1288.5	1224.5
4553.9	72.5°	2011.5	650.3	683.2	1039.5	1113.8	1105.2	934.0	1074.0	1170.9	1094.8
3142.6	75°	1108.6	439.3	487.7	754.1	904.6	852.7	802.5	909.7	1008.3	934.0
1969.9	77.5°	496.4	262.9	339.0	494.6	710.8	584.6	620.9	709.1	800.8	722.9
1096.5	80°	192.0	147.0	224.8	269.8	517.1	323.4	399.5	522.3	588.0	525.8
238.7	82.5°	24.2	65.7	96.9	105.5	300.9	171.2	231.8	328.6	323.4	280.2
0.0	85°	0.0	12.1	13.8	6.9	129.7	62.3	76.1	107.2	100.3	76.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	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°
3476.4	0°	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4
3113.2	2.5°	3028.4	2966.2	2935.0	2909.1	2933.3	2947.1	2947.1	3005.9	3040.5	3054.4
2820.9	5°	2668.7	2552.8	2475.0	2428.3	2443.8	2461.1	2480.2	2554.5	2604.7	2637.6
2618.5	7.5°	2385.0	2208.6	2099.7	2042.6	2051.2	2063.3	2078.9	2151.5	2201.7	2244.9
2580.5	10°	2244.9	1995.9	1852.3	1783.2	1771.1	1764.1	1758.9	1802.2	1840.2	1874.8
2736.1	12.5°	2251.9	1904.2	1729.5	1644.8	1608.5	1567.0	1534.1	1541.0	1565.2	1608.5
3014.6	15°	2340.1	1874.8	1665.5	1560.0	1499.5	1451.1	1411.3	1402.7	1411.3	1418.2
3332.8	17.5°	2459.4	1871.4	1610.2	1478.8	1416.5	1376.7	1340.4	1328.3	1330.0	1338.7
3543.8	20°	2554.5	1861.0	1547.9	1400.9	1345.6	1311.0	1274.7	1262.6	1266.0	1267.8
3564.6	22.5°	2604.7	1845.4	1478.8	1323.1	1276.4	1241.8	1208.9	1207.2	1207.2	1217.6
3452.2	25°	2604.7	1812.6	1416.5	1248.7	1207.2	1176.1	1136.3	1143.2	1146.7	1160.5
3277.5	27.5°	2542.4	1750.3	1366.3	1184.7	1141.5	1110.4	1074.0	1082.7	1087.9	1103.4
3104.5	30°	2462.9	1675.9	1309.3	1124.2	1074.0	1051.6	1020.4	1023.9	1030.8	1048.1
2943.7	32.5°	2378.1	1587.7	1262.6	1063.7	1013.5	996.2	961.6	966.8	973.7	992.8
2784.6	35°	2284.7	1483.9	1207.2	1008.3	958.2	944.3	904.6	908.0	918.4	939.1
2613.3	37.5°	2186.1	1399.2	1151.9	954.7	902.8	889.0	847.5	850.9	863.0	887.3
2433.5	40°	2089.3	1316.2	1093.1	897.6	845.7	833.6	788.7	792.1	806.0	831.9
2251.9	42.5°	1983.8	1252.2	1017.0	838.8	783.5	771.4	729.9	735.1	750.6	776.6
2084.1	45°	1857.5	1210.7	932.2	783.5	721.2	709.1	671.1	681.4	698.7	724.7
1940.5	47.5°	1727.8	1193.4	861.3	724.7	657.2	646.8	615.7	633.0	652.0	672.8
1817.7	50°	1603.3	1170.9	788.7	669.3	601.9	591.5	570.7	593.2	612.3	631.3
1729.5	52.5°	1461.5	1122.5	722.9	620.9	555.2	551.7	541.3	562.1	579.4	596.7
1653.4	55°	1314.5	1044.6	665.9	577.7	515.4	518.9	513.7	531.0	544.8	560.4
1584.3	57.5°	1186.5	946.1	620.9	531.0	480.8	491.2	484.3	492.9	501.6	520.6
1501.2	60°	1056.7	828.5	570.7	475.6	446.2	458.3	439.3	437.6	441.0	446.2
1378.4	62.5°	882.1	705.7	508.5	427.2	408.2	413.4	377.0	349.4	349.4	354.6
1207.2	65°	709.1	591.5	439.3	371.9	356.3	352.8	300.9	262.9	259.4	275.0
1008.3	67.5°	582.9	491.2	370.1	309.6	299.2	302.7	264.6	226.6	223.1	240.4
821.5	70°	482.5	396.1	295.8	238.7	249.1	264.6	226.6	190.2	185.1	200.6
667.6	72.5°	384.0	309.6	226.6	176.4	205.8	224.8	185.1	150.5	147.0	160.8
515.4	75°	281.9	221.4	153.9	128.0	159.1	176.4	134.9	107.2	102.0	114.1
344.2	77.5°	174.7	124.5	96.9	76.1	109.0	117.6	70.9	62.3	60.5	69.2
209.3	80°	81.3	53.6	46.7	25.9	39.8	46.7	29.4	32.9	34.6	41.5
105.5	82.5°	22.5	8.6	1.7	0.0	0.0	13.8	6.9	13.8	17.3	25.9
8.6	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	8.6	15.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
3476.4	0°	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4
3151.2	2.5°	3223.9	3293.0	3403.7	3517.9	3630.3	3744.5	3855.1	3894.9
2788.0	5°	2924.7	3083.8	3303.4	3538.6	3780.8	4026.4	4251.2	4353.3
2412.7	7.5°	2590.9	2819.2	3149.5	3517.9	3903.6	4289.3	4643.8	4808.1
2040.9	10°	2234.6	2523.4	2900.4	3398.5	3952.0	4484.7	4972.4	5185.2
1714.0	12.5°	1895.6	2198.2	2615.1	3211.8	3914.0	4597.1	5183.4	5434.2
1483.9	15°	1611.9	1880.0	2329.7	2990.4	3791.2	4604.0	5283.7	5558.7
1356.0	17.5°	1399.2	1573.9	2039.1	2744.8	3630.3	4540.0	5318.3	5612.4
1286.8	20°	1293.7	1342.1	1662.1	2430.0	3479.8	4479.5	5352.9	5662.5
1231.4	22.5°	1231.4	1243.5	1359.4	2023.6	3300.0	4460.5	5413.5	5731.7
1181.3	25°	1181.3	1184.7	1215.9	1603.3	3025.0	4448.4	5506.9	5826.8
1129.4	27.5°	1131.1	1131.1	1148.4	1292.0	2651.4	4396.5	5627.9	5941.0
1077.5	30°	1081.0	1081.0	1093.1	1143.2	2213.8	4294.5	5773.2	6089.7
1025.6	32.5°	1029.1	1029.1	1039.5	1075.8	1767.6	4166.5	5906.4	6240.2
972.0	35°	977.2	973.7	987.6	1025.6	1406.1	4003.9	6039.6	6402.8
918.4	37.5°	921.8	920.1	934.0	977.2	1214.1	3815.4	6139.9	6624.1
864.8	40°	863.0	863.0	878.6	925.3	1158.8	3578.4	6299.0	6942.4
809.4	42.5°	809.4	806.0	823.3	880.3	1117.3	3351.9	6584.4	7405.9
759.3	45°	757.5	750.6	766.2	837.1	1044.6	3272.3	7117.1	8090.8
710.8	47.5°	709.1	691.8	705.7	785.2	978.9	3569.8	7988.8	9040.3
667.6	50°	669.3	636.5	648.6	733.3	928.8	4214.9	9119.9	10301.1
627.8	52.5°	627.8	584.6	591.5	669.3	883.8	4828.9	10346.1	11965.0
588.0	55°	584.6	536.2	539.6	605.3	819.8	4920.5	11543.0	14234.1
543.1	57.5°	536.2	491.2	491.2	546.5	773.1	4265.0	12463.1	17049.8
487.7	60°	482.5	453.1	444.5	499.8	814.6	3009.4	12570.3	18865.8
416.8	62.5°	423.7	408.2	396.1	454.9	845.7	1783.2	11707.3	18426.5
328.6	65°	356.3	352.8	344.2	499.8	712.6	1053.3	10050.4	17079.2
280.2	67.5°	299.2	294.0	294.0	524.1	541.3	662.4	7852.1	15225.2
238.7	70°	257.7	238.7	238.7	396.1	328.6	458.3	5482.6	13224.1
197.2	72.5°	216.2	195.4	181.6	316.5	245.6	335.5	3426.2	11325.0
150.5	75°	173.0	157.4	140.1	209.3	183.3	254.2	1990.7	9382.8
95.1	77.5°	124.5	117.6	98.6	153.9	133.2	183.3	1184.7	7239.9
58.8	80°	64.0	65.7	62.3	88.2	89.9	124.5	674.5	4955.1
38.0	82.5°	38.0	29.4	32.9	43.2	51.9	70.9	254.2	2912.5
27.7	85°	24.2	15.6	15.6	20.8	25.9	27.7	77.8	1181.3
13.8	87.5°	12.1	5.2	6.9	10.4	8.6	6.9	3.5	297.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)