

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: P955698

Luminaire Tested: **GALN-SB8C-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955698
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-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40189 lumens
Efficiency: N/A
Efficacy: 100.5 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

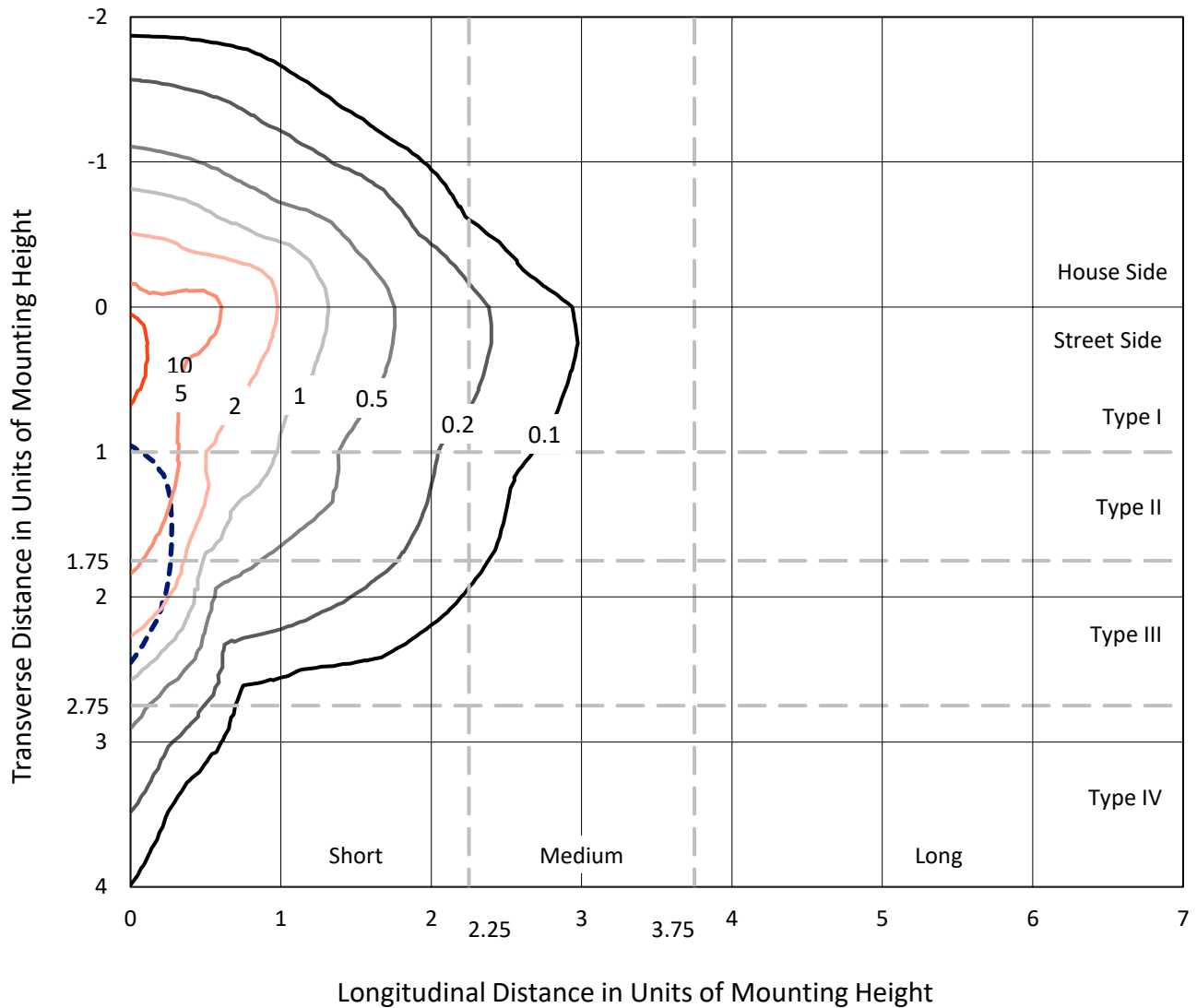
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

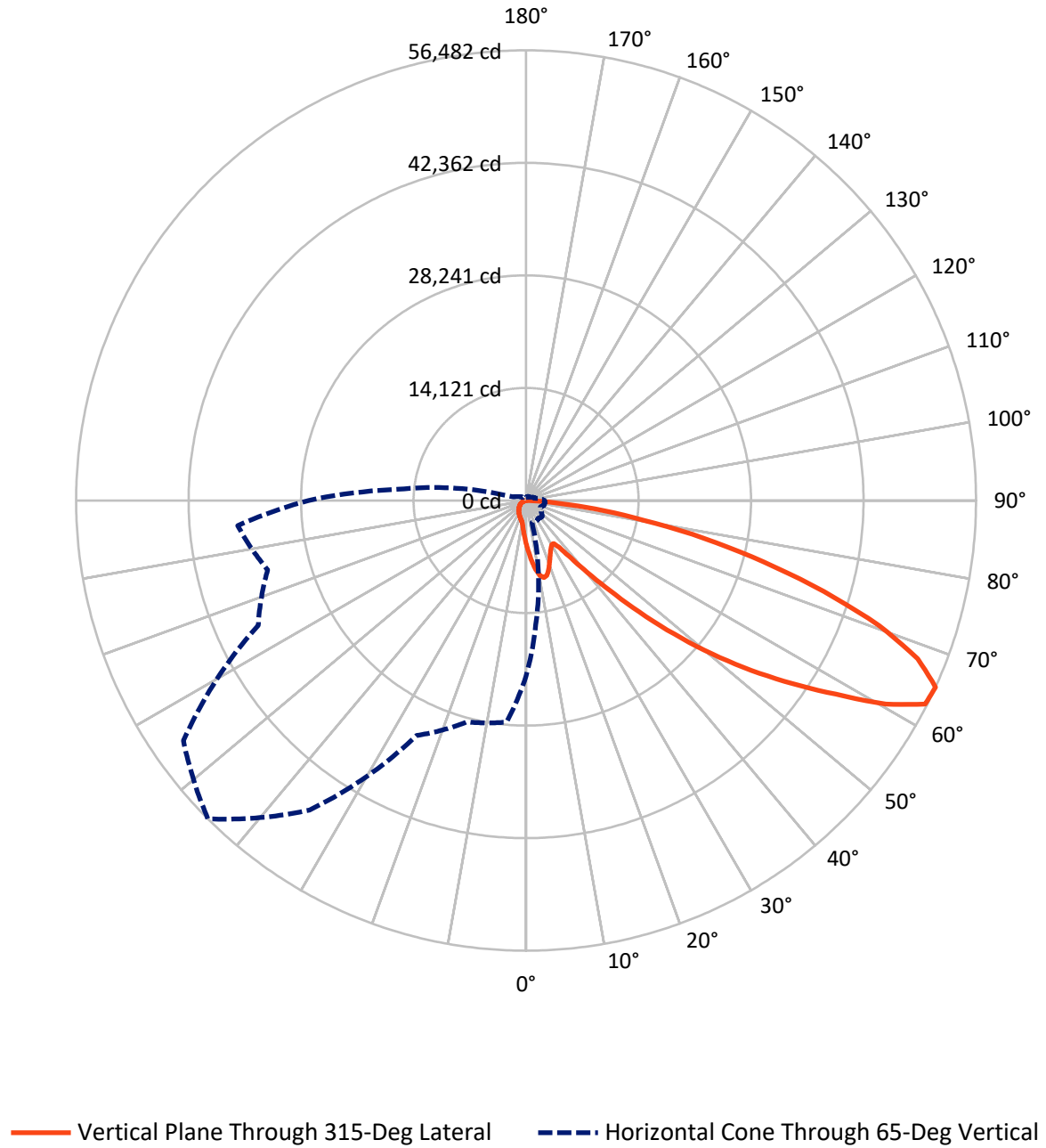
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5628.2	0.0	5628.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	34560.8	0.0	34560.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	40189.0	0.0	40189.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.9	1.4
10°-20°	1642.4	4.1
20°-30°	2419.6	6.0
30°-40°	3108.5	7.7
40°-50°	5027.4	12.5
50°-60°	8816.0	21.9
60°-70°	11031.2	27.4
70°-80°	6446.1	16.0
80°-90°	1150.1	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°	40189.0	100.0
0°-180°	40189.0	100.0

Coefficient of Utilization



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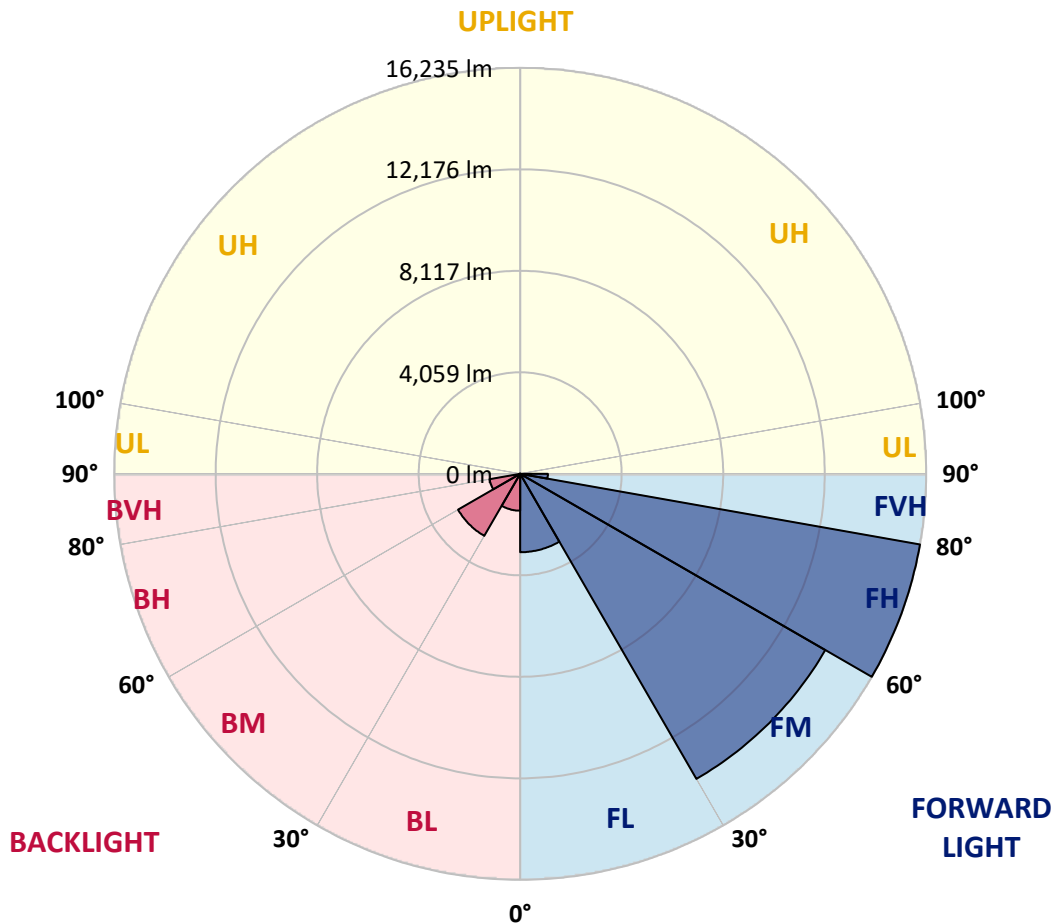
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3134.6	7.8			
FM (30°-60°)	14085.8	35.0			
FH (60°-80°)	16234.5	40.4			G5
FVH (80°-90°)	1105.9	2.8			G5
BL (0°-30°)	1475.2	3.7	B3/2500		
BM (30°-60°)	2866.0	7.1	B3/5000		
BH (60°-80°)	1242.7	3.1	B3/2500		G3/2500
BVH (80°-90°)	44.2	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°	5564.9	5564.9	5564.9	5564.9	5564.9	5564.9	5564.9	5564.9	5564.9	5564.9
2.5°	6287.5	6179.5	6115.8	5958.0	5800.2	5672.9	5501.2	5387.7	5252.0	5121.9
5°	7007.3	6832.9	6622.5	6334.6	6071.5	5803.0	5542.7	5285.3	5013.9	4764.8
7.5°	7616.4	7364.5	6993.5	6611.4	6276.4	5952.5	5647.9	5307.4	4977.9	4587.6
10°	8081.6	7760.4	7273.1	6772.0	6387.2	6060.5	5764.2	5476.3	5144.1	4673.4
12.5°	8363.9	8020.6	7442.0	6855.1	6414.9	6049.4	5819.6	5692.2	5562.1	5094.2
15°	8571.6	8200.6	7561.1	6913.2	6351.2	5902.7	5733.8	5861.1	6010.6	5711.6
17.5°	8787.5	8397.2	7716.1	6938.1	6179.5	5617.5	5545.5	5875.0	6221.0	6207.2
20°	8992.4	8604.8	7851.8	6921.5	5902.7	5271.4	5335.1	5755.9	6157.4	6326.3
22.5°	9227.8	8818.0	7981.9	6857.8	5542.7	4947.5	5146.8	5567.7	5919.3	6118.6
25°	9515.7	9086.6	8164.6	6763.7	5155.1	4678.9	4955.8	5348.9	5634.1	5772.5
27.5°	9825.8	9407.7	8408.2	6713.9	4842.3	4487.9	4739.8	5088.7	5343.4	5440.3
30°	10210.6	9781.5	8696.2	6658.5	4637.4	4377.2	4515.6	4786.9	5036.1	5133.0
32.5°	10631.4	10196.8	8973.0	6525.6	4512.8	4294.1	4296.9	4468.5	4695.5	4811.8
35°	11157.5	10695.1	9269.3	6234.9	4413.2	4197.2	4083.7	4166.7	4355.0	4493.4
37.5°	11907.8	11348.5	9632.0	5819.6	4266.4	4047.7	3859.4	3878.8	4022.8	4175.1
40°	12943.2	12226.1	10058.3	5387.7	4056.0	3837.3	3613.0	3604.7	3709.9	3859.4
42.5°	14344.1	13386.2	10570.5	4975.2	3853.9	3582.6	3352.8	3338.9	3422.0	3552.1
45°	16193.6	14870.2	11199.0	4620.8	3696.1	3333.4	3106.4	3100.8	3170.0	3283.6
47.5°	18560.7	16932.8	11827.5	4379.9	3613.0	3136.8	2904.3	2915.3	2976.2	3078.7
50°	21625.6	19621.1	12018.5	4258.1	3613.0	3031.6	2724.3	2779.7	2829.5	2907.0
52.5°	25299.5	22201.4	11387.3	4147.4	3635.2	3045.5	2572.0	2691.1	2727.1	2793.5
55°	28704.9	23466.7	9789.8	3995.1	3640.7	3131.3	2441.9	2619.1	2685.5	2710.5
57.5°	30681.7	23032.0	7915.4	3737.6	3618.6	3189.4	2358.8	2530.5	2657.9	2674.5
60°	30305.1	21506.5	5827.9	3541.0	3455.2	3167.3	2333.9	2394.8	2596.9	2621.9
62.5°	27403.6	18948.3	4044.9	3388.8	3095.3	3070.4	2325.6	2181.7	2464.1	2525.0
65°	22027.0	14917.2	2857.2	2918.1	2713.2	2860.0	2281.3	1960.2	2303.5	2386.5
67.5°	15980.4	10094.3	2062.6	2364.4	2458.5	2519.4	2181.7	1799.6	2120.7	2231.5
70°	10254.9	5451.4	1448.0	1561.5	2070.9	2140.1	2010.0	1655.6	1935.3	2062.6
72.5°	7289.7	3219.9	1041.0	1093.6	1663.9	1783.0	1769.1	1495.0	1719.3	1874.3
75°	5030.6	1774.7	703.2	780.7	1207.1	1448.0	1364.9	1284.6	1456.3	1614.1
77.5°	3153.4	794.6	420.8	542.6	791.8	1137.9	935.8	993.9	1135.1	1281.9
80°	1755.3	307.3	235.3	359.9	431.9	827.8	517.7	639.5	836.1	941.3
82.5°	382.1	38.8	105.2	155.0	168.9	481.7	274.1	371.0	526.0	517.7
85°	0.0	0.0	19.4	22.1	11.1	207.6	99.7	121.8	171.7	160.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
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°
5564.9	0°	5564.9	5564.9	5564.9	5564.9	5564.9	5564.9	5564.9	5564.9	5564.9	5564.9
5005.6	2.5°	4983.5	4847.8	4748.2	4698.3	4656.8	4695.5	4717.7	4717.7	4811.8	4867.2
4612.5	5°	4515.6	4272.0	4086.5	3961.9	3887.1	3912.0	3939.7	3970.2	4089.2	4169.5
4379.9	7.5°	4191.7	3817.9	3535.5	3361.1	3269.7	3283.6	3302.9	3327.9	3444.1	3524.4
4413.2	10°	4130.8	3593.6	3195.0	2965.2	2854.4	2835.0	2824.0	2815.7	2884.9	2945.8
4789.7	12.5°	4379.9	3604.7	3048.2	2768.6	2632.9	2574.8	2508.4	2455.8	2466.8	2505.6
5360.0	15°	4825.7	3745.9	3001.2	2666.2	2497.3	2400.4	2322.9	2259.2	2245.3	2259.2
5858.4	17.5°	5335.1	3937.0	2995.6	2577.6	2367.2	2267.5	2203.8	2145.7	2126.3	2129.1
6138.0	20°	5672.9	4089.2	2979.0	2477.9	2242.6	2154.0	2098.6	2040.5	2021.1	2026.6
6060.5	22.5°	5706.1	4169.5	2954.1	2367.2	2118.0	2043.2	1987.9	1935.3	1932.5	1932.5
5769.8	25°	5526.1	4169.5	2901.5	2267.5	1998.9	1932.5	1882.6	1819.0	1830.0	1835.6
5440.3	27.5°	5246.5	4069.8	2801.8	2187.2	1896.5	1827.3	1777.4	1719.3	1733.1	1741.5
5133.0	30°	4969.6	3942.5	2682.8	2095.8	1799.6	1719.3	1683.3	1633.5	1639.0	1650.1
4828.4	32.5°	4712.2	3806.8	2541.6	2021.1	1702.7	1622.4	1594.7	1539.3	1547.6	1558.7
4529.4	35°	4457.4	3657.3	2375.5	1932.5	1614.1	1533.8	1511.7	1448.0	1453.5	1470.1
4230.4	37.5°	4183.4	3499.5	2239.8	1843.9	1528.3	1445.2	1423.1	1356.6	1362.2	1381.5
3920.3	40°	3895.4	3344.5	2106.9	1749.8	1436.9	1353.8	1334.5	1262.5	1268.0	1290.2
3615.8	42.5°	3604.7	3175.6	2004.5	1627.9	1342.8	1254.2	1234.8	1168.4	1176.7	1201.6
3350.0	45°	3336.2	2973.5	1938.0	1492.3	1254.2	1154.5	1135.1	1074.2	1090.8	1118.5
3125.8	47.5°	3106.4	2765.8	1910.3	1378.8	1160.0	1052.1	1035.5	985.6	1013.3	1043.8
2934.7	50°	2909.8	2566.5	1874.3	1262.5	1071.4	963.5	946.9	913.6	949.6	980.1
2804.6	52.5°	2768.6	2339.5	1796.8	1157.3	993.9	888.7	883.2	866.6	899.8	927.5
2707.7	55°	2646.8	2104.1	1672.2	1065.9	924.7	825.0	830.6	822.3	850.0	872.1
2649.6	57.5°	2536.0	1899.3	1514.4	993.9	850.0	769.7	786.3	775.2	789.1	802.9
2588.6	60°	2403.1	1691.6	1326.2	913.6	761.4	714.3	733.7	703.2	700.5	706.0
2477.9	62.5°	2206.6	1412.0	1129.6	814.0	683.8	653.4	661.7	603.6	559.3	559.3
2314.6	65°	1932.5	1135.1	946.9	703.2	595.2	570.3	564.8	481.7	420.8	415.3
2137.4	67.5°	1614.1	933.0	786.3	592.5	495.6	479.0	484.5	423.6	362.7	357.1
1960.2	70°	1315.1	772.4	634.0	473.4	382.1	398.7	423.6	362.7	304.5	296.2
1752.5	72.5°	1068.7	614.6	495.6	362.7	282.4	329.5	359.9	296.2	240.9	235.3
1495.0	75°	825.0	451.3	354.4	246.4	204.9	254.7	282.4	216.0	171.7	163.3
1157.3	77.5°	551.0	279.6	199.3	155.0	121.8	174.4	188.3	113.5	99.7	96.9
841.7	80°	335.0	130.1	85.8	74.8	41.5	63.7	74.8	47.1	52.6	55.4
448.5	82.5°	168.9	36.0	13.8	2.8	0.0	0.0	22.1	11.1	22.1	27.7
121.8	85°	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	13.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°
5564.9	0°	5564.9	5564.9	5564.9	5564.9	5564.9	5564.9	5564.9	5564.9	5564.9	5564.9
4889.4	2.5°	5044.4	5160.7	5271.4	5448.6	5631.3	5811.3	5994.0	6171.2	6234.9	6282.0
4222.1	5°	4463.0	4681.7	4936.4	5288.0	5664.6	6052.2	6445.3	6805.2	6968.6	7079.3
3593.6	7.5°	3862.2	4147.4	4512.8	5041.6	5631.3	6248.7	6866.1	7433.7	7696.7	7909.9
3001.2	10°	3267.0	3577.0	4039.4	4642.9	5440.3	6326.3	7179.0	7959.7	8300.3	8568.8
2574.8	12.5°	2743.7	3034.4	3518.9	4186.1	5141.3	6265.3	7358.9	8297.5	8698.9	9000.7
2270.3	15°	2375.5	2580.3	3009.5	3729.3	4786.9	6068.8	7370.0	8458.1	8898.3	9213.9
2142.9	17.5°	2170.6	2239.8	2519.4	3264.2	4393.8	5811.3	7267.6	8513.5	8984.1	9277.6
2029.4	20°	2059.8	2070.9	2148.4	2660.6	3889.9	5570.4	7170.7	8568.8	9064.4	9310.8
1949.1	22.5°	1971.2	1971.2	1990.6	2176.1	3239.3	5282.5	7140.2	8665.7	9175.1	9327.4
1857.7	25°	1891.0	1891.0	1896.5	1946.3	2566.5	4842.3	7120.8	8815.2	9327.4	9369.0
1766.4	27.5°	1807.9	1810.7	1810.7	1838.4	2068.1	4244.3	7037.8	9009.0	9510.1	9424.3
1677.8	30°	1724.8	1730.4	1730.4	1749.8	1830.0	3543.8	6874.4	9241.6	9748.2	9496.3
1589.2	32.5°	1641.8	1647.3	1647.3	1663.9	1722.1	2829.5	6669.6	9454.8	9989.1	9526.8
1503.4	35°	1556.0	1564.3	1558.7	1580.9	1641.8	2250.9	6409.3	9668.0	10249.4	9623.7
1420.3	37.5°	1470.1	1475.7	1472.9	1495.0	1564.3	1943.6	6107.5	9828.5	10603.7	9839.6
1331.7	40°	1384.3	1381.5	1381.5	1406.4	1481.2	1855.0	5728.2	10083.2	11113.2	10218.9
1243.1	42.5°	1295.7	1295.7	1290.2	1317.9	1409.2	1788.5	5365.6	10540.1	11855.2	10822.5
1160.0	45°	1215.4	1212.6	1201.6	1226.5	1340.0	1672.2	5238.2	11392.8	12951.5	11799.8
1077.0	47.5°	1137.9	1135.1	1107.4	1129.6	1256.9	1567.0	5714.4	12788.2	14471.5	13236.7
1010.5	50°	1068.7	1071.4	1018.8	1038.2	1173.9	1486.7	6747.1	14598.8	16489.8	15171.9
955.2	52.5°	1005.0	1005.0	935.8	946.9	1071.4	1414.8	7729.9	16561.8	19153.2	17871.3
897.0	55°	941.3	935.8	858.3	863.8	969.0	1312.3	7876.7	18477.7	22785.6	21932.9
833.3	57.5°	869.3	858.3	786.3	786.3	874.9	1237.6	6827.4	19950.5	27292.9	27902.0
714.3	60°	780.7	772.4	725.4	711.5	800.1	1304.0	4817.4	20122.2	30199.9	35839.6
567.6	62.5°	667.2	678.3	653.4	634.0	728.1	1353.8	2854.4	18740.7	29496.7	38364.5
440.2	65°	526.0	570.3	564.8	551.0	800.1	1140.7	1686.1	16088.3	27339.9	36326.8
384.8	67.5°	448.5	479.0	470.7	470.7	838.9	866.6	1060.4	12569.5	24372.0	33909.8
321.2	70°	382.1	412.5	382.1	382.1	634.0	526.0	733.7	8776.5	21168.7	31235.4
257.5	72.5°	315.6	346.1	312.9	290.7	506.7	393.1	537.1	5484.6	18128.8	28450.2
182.7	75°	240.9	276.9	251.9	224.3	335.0	293.5	407.0	3186.7	15019.7	24341.6
110.7	77.5°	152.3	199.3	188.3	157.8	246.4	213.2	293.5	1896.5	11589.4	19020.3
66.4	80°	94.1	102.4	105.2	99.7	141.2	144.0	199.3	1079.8	7932.0	13256.1
41.5	82.5°	60.9	60.9	47.1	52.6	69.2	83.1	113.5	407.0	4662.3	8070.5
24.9	85°	44.3	38.8	24.9	24.9	33.2	41.5	44.3	124.6	1891.0	3186.7
11.1	87.5°	22.1	19.4	8.3	11.1	16.6	13.8	11.1	5.5	476.2	1018.8
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
5564.9	0°	5564.9	5564.9	5564.9	5564.9	5564.9	5564.9	5564.9	5564.9
6387.2	2.5°	6442.5	6528.4	6533.9	6533.9	6459.1	6456.4	6304.1	6287.5
7328.5	5°	7586.0	7641.3	7655.2	7627.5	7478.0	7367.3	7071.0	7007.3
8289.2	7.5°	8632.5	8743.2	8743.2	8676.8	8433.2	8206.1	7777.0	7616.4
9083.8	10°	9468.6	9596.0	9568.3	9432.6	9125.3	8812.5	8292.0	8081.6
9565.5	12.5°	9875.6	10005.7	9933.7	9778.7	9479.7	9150.2	8602.0	8363.9
9704.0	15°	9867.3	9831.3	9756.6	9737.2	9593.2	9344.0	8831.8	8571.6
9618.1	17.5°	9515.7	9211.1	9153.0	9346.8	9529.5	9468.6	9031.2	8787.5
9413.2	20°	8959.2	8427.6	8375.0	8746.0	9266.5	9532.3	9216.7	8992.4
9117.0	22.5°	8372.3	7799.2	7677.3	8087.1	8870.6	9551.7	9452.0	9227.8
8790.3	25°	7815.8	7239.9	7118.1	7500.1	8430.4	9518.5	9706.7	9515.7
8477.5	27.5°	7350.6	6794.1	6680.6	7062.7	8006.8	9424.3	9961.4	9825.8
8167.4	30°	6990.7	6475.8	6392.7	6760.9	7641.3	9308.0	10285.4	10210.6
7879.4	32.5°	6780.3	6403.8	6434.2	6736.0	7444.8	9180.7	10595.4	10631.4
7738.2	35°	6988.0	7004.6	7270.3	7394.9	7627.5	9161.3	11016.3	11157.5
7907.1	37.5°	8020.6	8596.5	9147.5	9045.0	8521.8	9385.6	11644.7	11907.8
8643.6	40°	9778.7	10960.9	11855.2	11464.8	10146.9	10072.2	12550.1	12943.2
9950.4	42.5°	11927.1	13931.6	15404.5	14358.0	12242.8	11273.7	13843.0	14344.1
11531.2	45°	14194.6	17594.5	19914.6	17738.4	14477.0	12957.1	15800.4	16193.6
13012.4	47.5°	16583.9	22046.4	25047.5	21487.1	16547.9	14872.9	18469.3	18560.7
14416.1	50°	19197.5	26927.4	30280.2	25233.0	18546.9	17068.4	21730.8	21625.6
16052.4	52.5°	21686.5	31946.9	35402.1	28995.6	20302.2	19792.7	25515.4	25299.5
18289.4	55°	24061.9	36963.6	40554.5	32611.4	21957.8	23391.9	30011.6	28704.9
21514.8	57.5°	26816.7	41473.7	45864.7	36243.8	24272.3	28065.3	35039.4	30681.7
27691.6	60°	30889.3	46598.3	51869.8	41221.7	28674.4	32976.8	36841.8	30305.1
35089.3	62.5°	36088.7	51310.5	56235.8	46100.0	33095.9	33901.5	34186.7	27403.6
33580.4	65°	37099.3	52503.8	56482.3	47404.0	32525.5	28757.5	27910.3	22027.0
29995.0	67.5°	34419.3	50347.0	53038.1	44975.9	28771.3	22223.6	20944.5	15980.4
27641.7	70°	31412.6	46235.7	47035.8	40848.0	25305.0	16345.8	14144.8	10254.9
26030.4	72.5°	28331.1	40751.1	39095.4	35474.1	22240.2	11902.2	10202.3	7289.7
23735.2	75°	24671.0	33538.8	30795.2	29474.5	18414.0	9341.3	7381.1	5030.6
20415.7	77.5°	19756.7	23607.9	22874.2	22846.5	13837.5	6824.6	4925.3	3153.4
15949.9	80°	13937.1	15321.4	14947.7	17206.9	9283.1	4950.3	2965.2	1755.3
11102.1	82.5°	6747.1	8471.9	8696.2	10246.6	4515.6	2912.6	683.8	382.1
4341.2	85°	2641.2	4086.5	3446.9	3889.9	1268.0	811.2	16.6	0.0
714.3	87.5°	296.2	473.4	434.7	343.3	155.0	33.2	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)