

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: P954627

Luminaire Tested: **GALN-SB7D-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954627
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-SB7D-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 900mA 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: 48027 lumens
Efficiency: N/A
Efficacy: 93.7 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

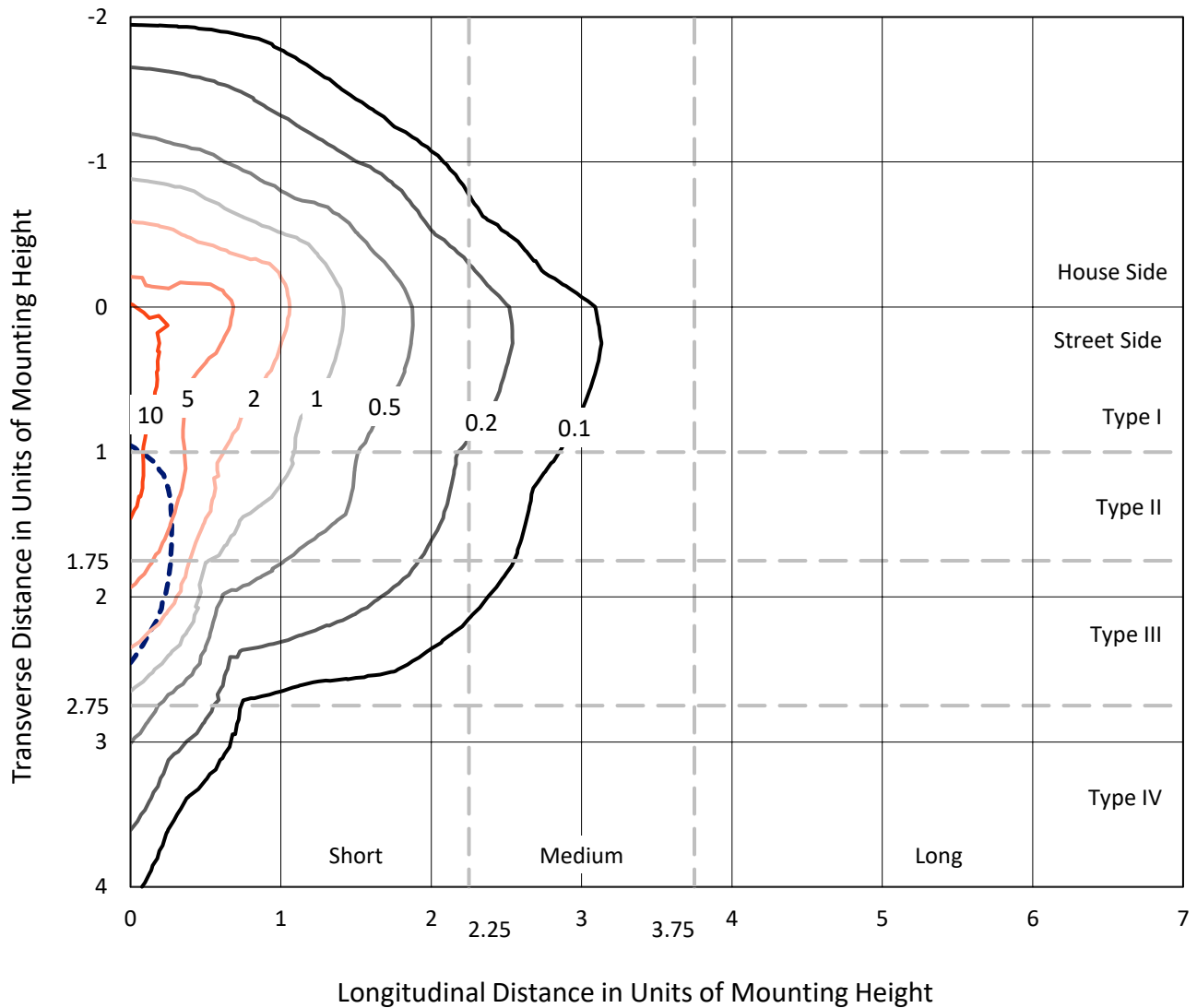
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

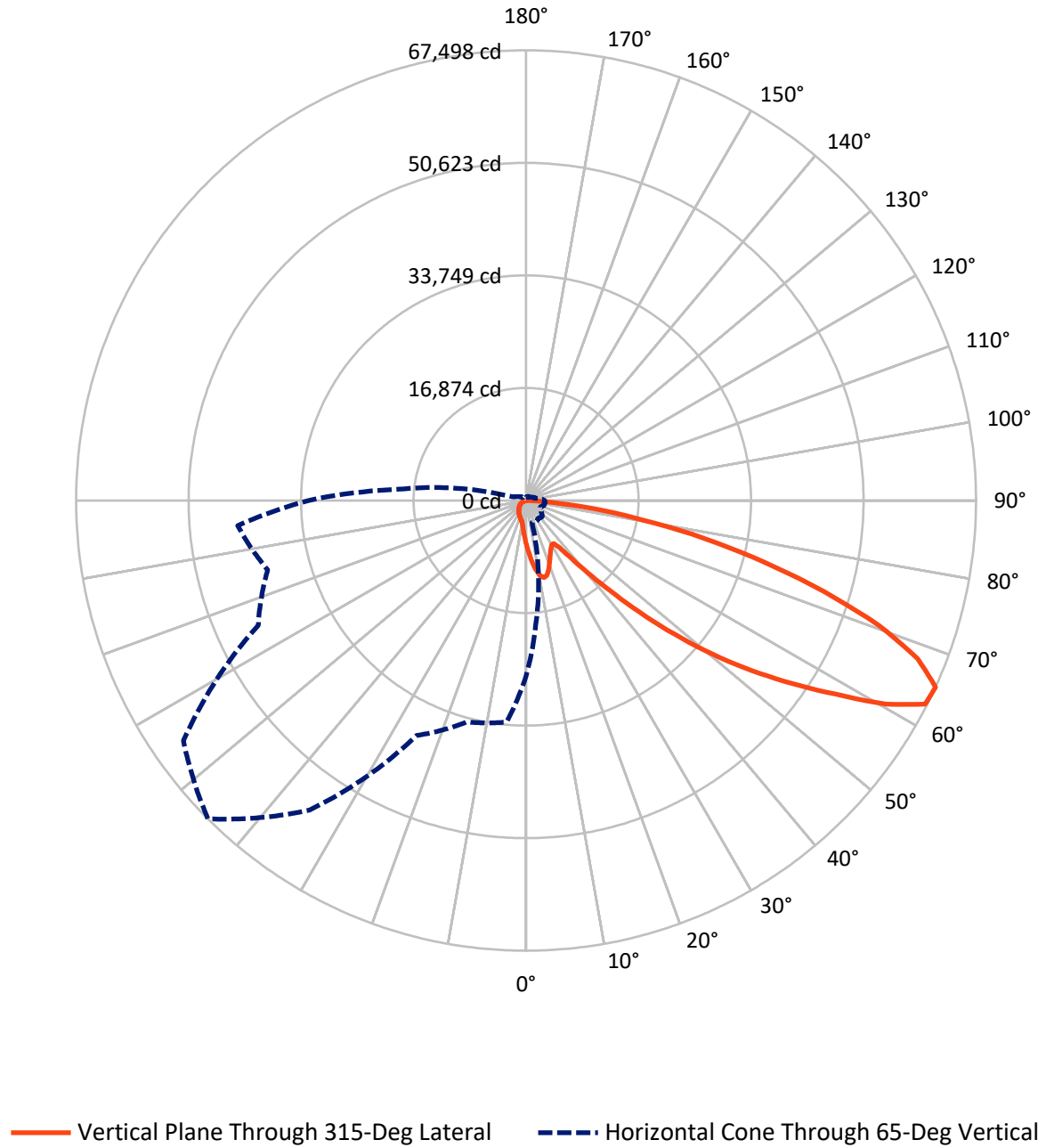
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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	6725.8	0.0	6725.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	41301.2	0.0	41301.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	48027.0	0.0	48027.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.7	1.4
10°-20°	1962.7	4.1
20°-30°	2891.5	6.0
30°-40°	3714.7	7.7
40°-50°	6007.8	12.5
50°-60°	10535.3	21.9
60°-70°	13182.6	27.4
70°-80°	7703.3	16.0
80°-90°	1374.4	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°	48027.0	100.0
0°-180°	48027.0	100.0

Coefficient of Utilization



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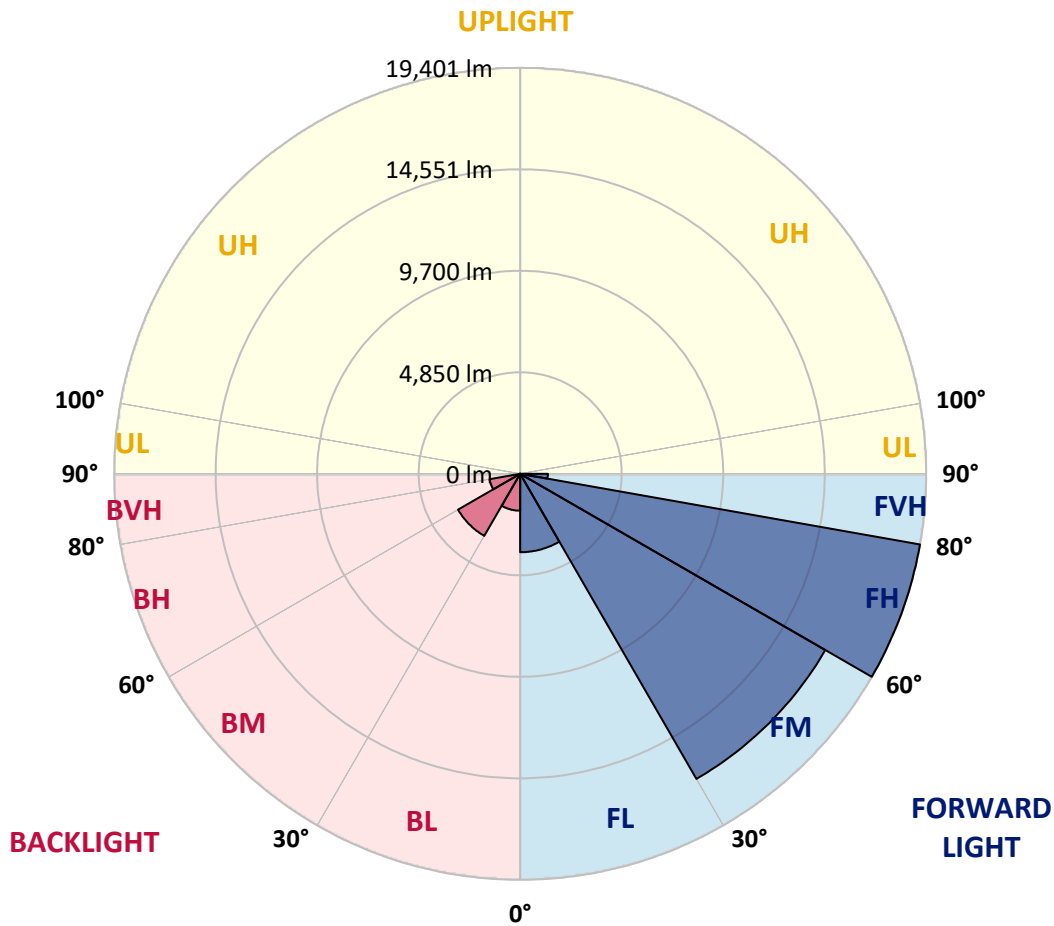
CATALOG NUMBER: GALN-SB7D-827-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3745.9	7.8			
FM (30°-60°)	16832.9	35.0			
FH (60°-80°)	19400.7	40.4			G5
FVH (80°-90°)	1321.6	2.8			G5
BL (0°-30°)	1763.0	3.7	B3/2500		
BM (30°-60°)	3425.0	7.1	B3/5000		
BH (60°-80°)	1485.1	3.1	B3/2500		G3/2500
BVH (80°-90°)	52.8	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°	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2
2.5°	7513.7	7384.7	7308.6	7120.0	6931.4	6779.2	6574.1	6438.5	6276.3	6120.8
5°	8374.0	8165.5	7914.1	7570.0	7255.7	6934.7	6623.7	6316.0	5991.8	5694.0
7.5°	9101.8	8800.8	8357.4	7900.8	7500.5	7113.4	6749.5	6342.5	5948.8	5482.3
10°	9657.7	9273.9	8691.6	8092.7	7632.8	7242.4	6888.4	6544.3	6147.3	5584.8
12.5°	9995.2	9584.9	8893.4	8192.0	7665.9	7229.2	6954.6	6802.4	6646.9	6087.7
15°	10243.3	9800.0	9035.7	8261.5	7589.8	7053.8	6852.0	7004.2	7182.9	6825.6
17.5°	10501.4	10034.9	9221.0	8291.2	7384.7	6713.1	6627.0	7020.8	7434.3	7417.8
20°	10746.2	10283.0	9383.1	8271.4	7053.8	6299.5	6375.6	6878.5	7358.2	7560.1
22.5°	11027.4	10537.8	9538.6	8195.3	6623.7	5912.4	6150.6	6653.5	7073.7	7311.9
25°	11371.5	10858.7	9756.9	8082.8	6160.5	5591.5	5922.3	6392.1	6732.9	6898.3
27.5°	11742.1	11242.5	10048.1	8023.3	5786.7	5363.2	5664.3	6081.1	6385.5	6501.3
30°	12202.0	11689.1	10392.2	7957.1	5541.8	5230.8	5396.3	5720.5	6018.3	6134.1
32.5°	12704.9	12185.4	10723.0	7798.3	5393.0	5131.6	5134.9	5340.0	5611.3	5750.3
35°	13333.5	12781.0	11077.1	7450.9	5273.8	5015.8	4880.1	4979.4	5204.4	5369.8
37.5°	14230.1	13561.8	11510.5	6954.6	5098.5	4837.1	4612.1	4635.3	4807.3	4989.3
40°	15467.5	14610.6	12020.0	6438.5	4847.0	4585.7	4317.7	4307.7	4433.5	4612.1
42.5°	17141.6	15996.9	12632.1	5945.5	4605.5	4281.3	4006.7	3990.1	4089.4	4244.9
45°	19351.8	17770.3	13383.1	5522.0	4416.9	3983.5	3712.2	3705.6	3788.3	3924.0
47.5°	22180.6	20235.1	14134.2	5234.1	4317.7	3748.6	3470.7	3483.9	3556.7	3679.1
50°	25843.2	23447.8	14362.5	5088.6	4317.7	3622.9	3255.6	3321.8	3381.3	3474.0
52.5°	30233.6	26531.3	13608.1	4956.2	4344.1	3639.4	3073.7	3215.9	3258.9	3338.3
55°	34303.1	28043.3	11699.1	4774.3	4350.8	3742.0	2918.1	3129.9	3209.3	3239.1
57.5°	36665.4	27523.9	9459.2	4466.6	4324.3	3811.5	2818.9	3024.0	3176.2	3196.1
60°	36215.5	25700.9	6964.5	4231.6	4129.1	3785.0	2789.1	2861.9	3103.4	3133.2
62.5°	32748.1	22643.8	4833.8	4049.7	3699.0	3669.2	2779.2	2607.1	2944.6	3017.4
65°	26322.9	17826.5	3414.4	3487.2	3242.4	3417.7	2726.3	2342.5	2752.7	2852.0
67.5°	19097.0	12063.0	2464.9	2825.5	2938.0	3010.8	2607.1	2150.6	2534.4	2666.7
70°	12254.9	6514.6	1730.4	1866.0	2474.8	2557.5	2402.0	1978.5	2312.7	2464.9
72.5°	8711.4	3847.9	1244.0	1306.9	1988.4	2130.7	2114.2	1786.6	2054.6	2239.9
75°	6011.7	2120.8	840.4	933.0	1442.5	1730.4	1631.1	1535.2	1740.3	1928.9
77.5°	3768.4	949.6	502.9	648.5	946.2	1359.8	1118.3	1187.8	1356.5	1531.9
80°	2097.6	367.3	281.2	430.1	516.1	989.3	618.7	764.3	999.2	1124.9
82.5°	456.6	46.3	125.7	185.3	201.8	575.7	327.5	443.3	628.6	618.7
85°	0.0	0.0	23.2	26.5	13.2	248.1	119.1	145.6	205.1	191.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
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°
6650.2	0°	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2
5981.9	2.5°	5955.4	5793.3	5674.2	5614.6	5565.0	5611.3	5637.8	5637.8	5750.3	5816.4
5512.1	5°	5396.3	5105.1	4883.4	4734.5	4645.2	4675.0	4708.1	4744.5	4886.7	4982.7
5234.1	7.5°	5009.2	4562.5	4225.0	4016.6	3907.4	3924.0	3947.1	3976.9	4115.8	4211.8
5273.8	10°	4936.4	4294.5	3818.1	3543.5	3411.1	3388.0	3374.7	3364.8	3447.5	3520.3
5723.8	12.5°	5234.1	4307.7	3642.7	3308.6	3146.4	3077.0	2997.6	2934.7	2947.9	2994.2
6405.4	15°	5766.8	4476.5	3586.5	3186.1	2984.3	2868.5	2775.9	2699.8	2683.2	2699.8
7000.9	17.5°	6375.6	4704.8	3579.9	3080.3	2828.8	2709.7	2633.6	2564.1	2541.0	2544.3
7335.1	20°	6779.2	4886.7	3560.0	2961.2	2679.9	2574.1	2507.9	2438.4	2415.2	2421.9
7242.4	22.5°	6818.9	4982.7	3530.2	2828.8	2531.0	2441.7	2375.5	2312.7	2309.4	2309.4
6895.0	25°	6603.9	4982.7	3467.4	2709.7	2388.8	2309.4	2249.8	2173.7	2187.0	2193.6
6501.3	27.5°	6269.7	4863.6	3348.3	2613.8	2266.4	2183.6	2124.1	2054.6	2071.2	2081.1
6134.1	30°	5938.9	4711.4	3206.0	2504.6	2150.6	2054.6	2011.6	1952.0	1958.7	1971.9
5770.1	32.5°	5631.2	4549.3	3037.3	2415.2	2034.8	1938.8	1905.7	1839.6	1849.5	1862.7
5412.8	35°	5326.8	4370.6	2838.7	2309.4	1928.9	1832.9	1806.5	1730.4	1737.0	1756.8
5055.5	37.5°	4999.2	4182.0	2676.6	2203.5	1826.3	1727.1	1700.6	1621.2	1627.8	1651.0
4684.9	40°	4655.1	3996.7	2517.8	2091.0	1717.1	1617.9	1594.7	1508.7	1515.3	1541.8
4321.0	42.5°	4307.7	3794.9	2395.4	1945.4	1604.7	1498.8	1475.6	1396.2	1406.1	1435.9
4003.4	45°	3986.8	3553.4	2316.0	1783.3	1498.8	1379.7	1356.5	1283.7	1303.6	1336.7
3735.4	47.5°	3712.2	3305.3	2282.9	1647.7	1386.3	1257.3	1237.4	1177.8	1210.9	1247.3
3507.1	50°	3477.3	3067.0	2239.9	1508.7	1280.4	1151.4	1131.5	1091.8	1134.8	1171.2
3351.6	52.5°	3308.6	2795.7	2147.3	1383.0	1187.8	1062.0	1055.4	1035.6	1075.3	1108.4
3235.8	55°	3163.0	2514.5	1998.4	1273.8	1105.1	986.0	992.6	982.6	1015.7	1042.2
3166.3	57.5°	3030.6	2269.7	1809.8	1187.8	1015.7	919.8	939.6	926.4	942.9	959.5
3093.5	60°	2871.8	2021.5	1584.8	1091.8	909.9	853.6	876.8	840.4	837.1	843.7
2961.2	62.5°	2636.9	1687.4	1349.9	972.7	817.2	780.8	790.7	721.3	668.3	668.3
2766.0	65°	2309.4	1356.5	1131.5	840.4	711.3	681.6	674.9	575.7	502.9	496.3
2554.2	67.5°	1928.9	1115.0	939.6	708.0	592.2	572.4	579.0	506.2	433.4	426.8
2342.5	70°	1571.6	923.1	757.7	565.8	456.6	476.4	506.2	433.4	363.9	354.0
2094.3	72.5°	1277.1	734.5	592.2	433.4	337.5	393.7	430.1	354.0	287.8	281.2
1786.6	75°	986.0	539.3	423.5	294.5	244.8	304.4	337.5	258.1	205.1	195.2
1383.0	77.5°	658.4	334.2	238.2	185.3	145.6	208.4	225.0	135.7	119.1	115.8
1005.8	80°	400.3	155.5	102.6	89.3	49.6	76.1	89.3	56.2	62.9	66.2
536.0	82.5°	201.8	43.0	16.5	3.3	0.0	0.0	26.5	13.2	26.5	33.1
145.6	85°	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	16.5
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°
6650.2	0°	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2
5842.9	2.5°	6028.2	6167.2	6299.5	6511.2	6729.6	6944.7	7163.0	7374.8	7450.9	7507.1
5045.6	5°	5333.4	5594.8	5899.2	6319.3	6769.3	7232.5	7702.3	8132.4	8327.6	8460.0
4294.5	7.5°	4615.4	4956.2	5393.0	6024.9	6729.6	7467.4	8205.2	8883.5	9197.8	9452.6
3586.5	10°	3904.1	4274.7	4827.2	5548.5	6501.3	7560.1	8579.1	9512.1	9919.1	10240.0
3077.0	12.5°	3278.8	3626.2	4205.2	5002.5	6144.0	7487.3	8794.1	9915.8	10395.5	10756.1
2713.0	15°	2838.7	3083.6	3596.4	4456.6	5720.5	7252.4	8807.4	10107.6	10633.7	11010.9
2560.8	17.5°	2593.9	2676.6	3010.8	3900.8	5250.7	6944.7	8685.0	10173.8	10736.3	11087.0
2425.2	20°	2461.6	2474.8	2567.4	3179.5	4648.5	6656.8	8569.2	10240.0	10832.2	11126.7
2329.2	22.5°	2355.7	2355.7	2378.9	2600.5	3871.0	6312.7	8532.8	10355.8	10964.6	11146.5
2220.0	25°	2259.7	2259.7	2266.4	2325.9	3067.0	5786.7	8509.6	10534.5	11146.5	11196.2
2110.9	27.5°	2160.5	2163.8	2163.8	2196.9	2471.5	5072.0	8410.4	10766.0	11364.9	11262.3
2005.0	30°	2061.2	2067.8	2067.8	2091.0	2187.0	4235.0	8215.2	11044.0	11649.4	11348.4
1899.1	32.5°	1962.0	1968.6	1968.6	1988.4	2057.9	3381.3	7970.3	11298.7	11937.3	11384.8
1796.5	35°	1859.4	1869.3	1862.7	1889.2	1962.0	2689.9	7659.3	11553.5	12248.3	11500.5
1697.3	37.5°	1756.8	1763.5	1760.2	1786.6	1869.3	2322.6	7298.7	11745.4	12671.8	11758.6
1591.4	40°	1654.3	1651.0	1651.0	1680.7	1770.1	2216.7	6845.4	12049.8	13280.6	12211.9
1485.5	42.5°	1548.4	1548.4	1541.8	1574.9	1684.1	2137.3	6412.0	12595.7	14167.2	12933.2
1386.3	45°	1452.5	1449.1	1435.9	1465.7	1601.3	1998.4	6259.8	13614.7	15477.4	14101.1
1287.0	47.5°	1359.8	1356.5	1323.4	1349.9	1502.1	1872.6	6828.9	15282.2	17293.8	15818.2
1207.6	50°	1277.1	1280.4	1217.5	1240.7	1402.8	1776.7	8063.0	17446.0	19705.8	18130.9
1141.5	52.5°	1201.0	1201.0	1118.3	1131.5	1280.4	1690.7	9237.5	19791.8	22888.6	21356.7
1072.0	55°	1124.9	1118.3	1025.7	1032.3	1158.0	1568.3	9412.8	22081.3	27229.4	26210.4
995.9	57.5°	1038.9	1025.7	939.6	939.6	1045.5	1478.9	8158.9	23841.5	32615.8	33343.7
853.6	60°	933.0	923.1	866.8	850.3	956.2	1558.3	5756.9	24046.6	36089.8	42829.3
678.3	62.5°	797.4	810.6	780.8	757.7	870.2	1617.9	3411.1	22395.6	35249.4	45846.7
526.1	65°	628.6	681.6	674.9	658.4	956.2	1363.1	2014.9	19226.0	32672.0	43411.6
459.9	67.5°	536.0	572.4	562.5	562.5	1002.5	1035.6	1267.2	15020.9	29125.2	40523.2
383.8	70°	456.6	493.0	456.6	456.6	757.7	628.6	876.8	10488.1	25297.2	37327.2
307.7	72.5°	377.2	413.6	373.9	347.4	605.5	469.8	641.9	6554.3	21664.4	33998.7
218.4	75°	287.8	330.9	301.1	268.0	400.3	350.7	486.4	3808.2	17948.9	29088.8
132.3	77.5°	182.0	238.2	225.0	188.6	294.5	254.8	350.7	2266.4	13849.6	22729.8
79.4	80°	112.5	122.4	125.7	119.1	168.7	172.0	238.2	1290.3	9479.0	15841.4
49.6	82.5°	72.8	72.8	56.2	62.9	82.7	99.3	135.7	486.4	5571.6	9644.4
29.8	85°	52.9	46.3	29.8	29.8	39.7	49.6	52.9	148.9	2259.7	3808.2
13.2	87.5°	26.5	23.2	9.9	13.2	19.9	16.5	13.2	6.6	569.1	1217.5
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°
6650.2	0°	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2	6650.2
7632.8	2.5°	7699.0	7801.6	7808.2	7808.2	7718.9	7715.6	7533.6	7513.7
8757.8	5°	9065.5	9131.6	9148.2	9115.1	8936.4	8804.1	8450.1	8374.0
9905.8	7.5°	10316.1	10448.4	10448.4	10369.0	10077.9	9806.6	9293.7	9101.8
10855.4	10°	11315.3	11467.5	11434.4	11272.3	10905.0	10531.1	9909.1	9657.7
11431.1	12.5°	11801.6	11957.1	11871.1	11685.8	11328.5	10934.8	10279.7	9995.2
11596.5	15°	11791.7	11748.7	11659.4	11636.2	11464.2	11166.4	10554.3	10243.3
11493.9	17.5°	11371.5	11007.6	10938.1	11169.7	11388.1	11315.3	10792.5	10501.4
11249.1	20°	10706.5	10071.3	10008.4	10451.7	11073.7	11391.4	11014.2	10746.2
10895.1	22.5°	10005.1	9320.2	9174.6	9664.3	10600.6	11414.5	11295.4	11027.4
10504.7	25°	9340.1	8651.9	8506.3	8962.9	10074.6	11374.8	11599.8	11371.5
10130.8	27.5°	8784.2	8119.2	7983.6	8440.1	9568.4	11262.3	11904.2	11742.1
9760.2	30°	8354.1	7738.7	7639.5	8079.5	9131.6	11123.4	12291.3	12202.0
9416.2	32.5°	8102.7	7652.7	7689.1	8049.7	8896.7	10971.2	12661.9	12704.9
9247.4	35°	8350.8	8370.7	8688.3	8837.2	9115.1	10948.0	13164.8	13333.5
9449.2	37.5°	9584.9	10273.1	10931.5	10809.1	10183.7	11216.0	13915.8	14230.1
10329.3	40°	11685.8	13098.6	14167.2	13700.7	12125.9	12036.5	14997.7	15467.5
11891.0	42.5°	14253.3	16648.7	18408.8	17158.2	14630.4	13472.5	16542.8	17141.6
13780.1	45°	16963.0	21025.9	23798.5	21197.9	17300.5	15484.1	18881.9	19351.8
15550.2	47.5°	19818.3	26346.1	29932.5	25677.7	19775.3	17773.6	22071.4	22180.6
17227.7	50°	22941.5	32179.0	36185.7	30154.2	22164.0	20397.3	25968.9	25843.2
19183.0	52.5°	25915.9	38177.5	42306.5	34650.5	24261.7	23652.9	30491.7	30233.6
21856.3	55°	28754.7	44172.6	48463.8	38971.5	26240.2	27954.0	35864.8	34303.1
25710.8	57.5°	32046.7	49562.2	54809.6	43312.3	29006.1	33538.9	41873.1	36665.4
33092.2	60°	36913.6	55686.3	61985.8	49261.1	34266.7	39408.2	44027.0	36215.5
41932.7	62.5°	43127.1	61317.5	67203.4	55090.8	39550.5	40513.3	40854.1	32748.1
40129.5	65°	44334.7	62743.5	67497.9	56649.1	38868.9	34366.0	33353.6	26322.9
35844.9	67.5°	41132.0	60166.1	63382.1	53747.5	34382.5	26557.8	25029.2	19097.0
33032.6	70°	37538.9	55252.9	56209.1	48814.5	30240.2	19533.7	16903.4	12254.9
31107.1	72.5°	33856.5	48698.7	46720.2	42392.6	26577.7	14223.5	12192.0	8711.4
28364.3	75°	29482.6	40079.9	36801.1	35222.9	22005.2	11163.1	8820.6	6011.7
24397.3	77.5°	23609.9	28212.1	27335.3	27302.2	16536.2	8155.6	5885.9	3768.4
19060.6	80°	16655.3	18309.6	17862.9	20562.7	11093.6	5915.7	3543.5	2097.6
13267.3	82.5°	8063.0	10124.2	10392.2	12245.0	5396.3	3480.6	817.2	456.6
5187.8	85°	3156.4	4883.4	4119.2	4648.5	1515.3	969.4	19.9	0.0
853.6	87.5°	354.0	565.8	519.4	410.3	185.3	39.7	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)