

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: P951477

Luminaire Tested: **GALN-SB5C-840-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951477
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-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 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: 27617 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

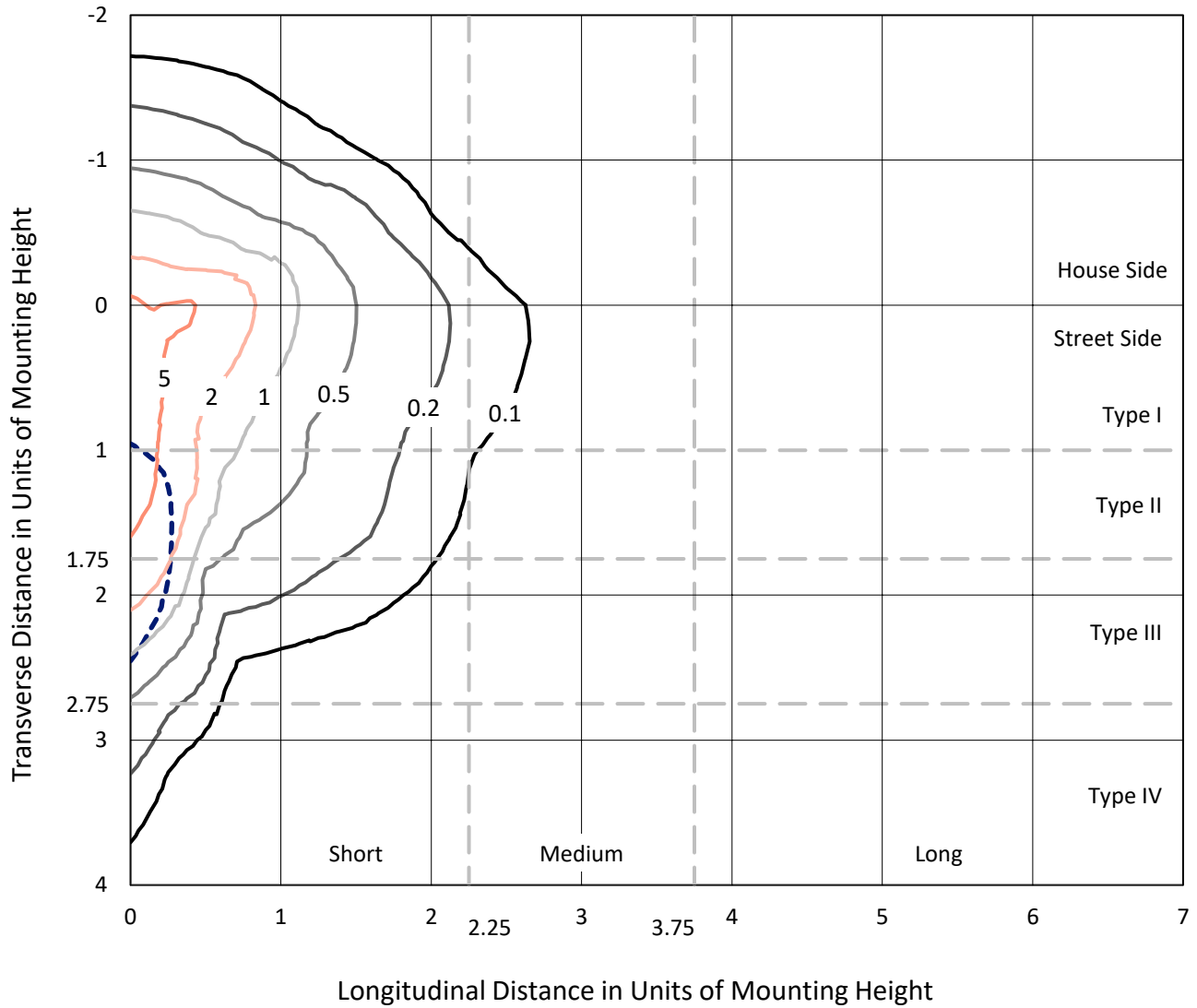
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

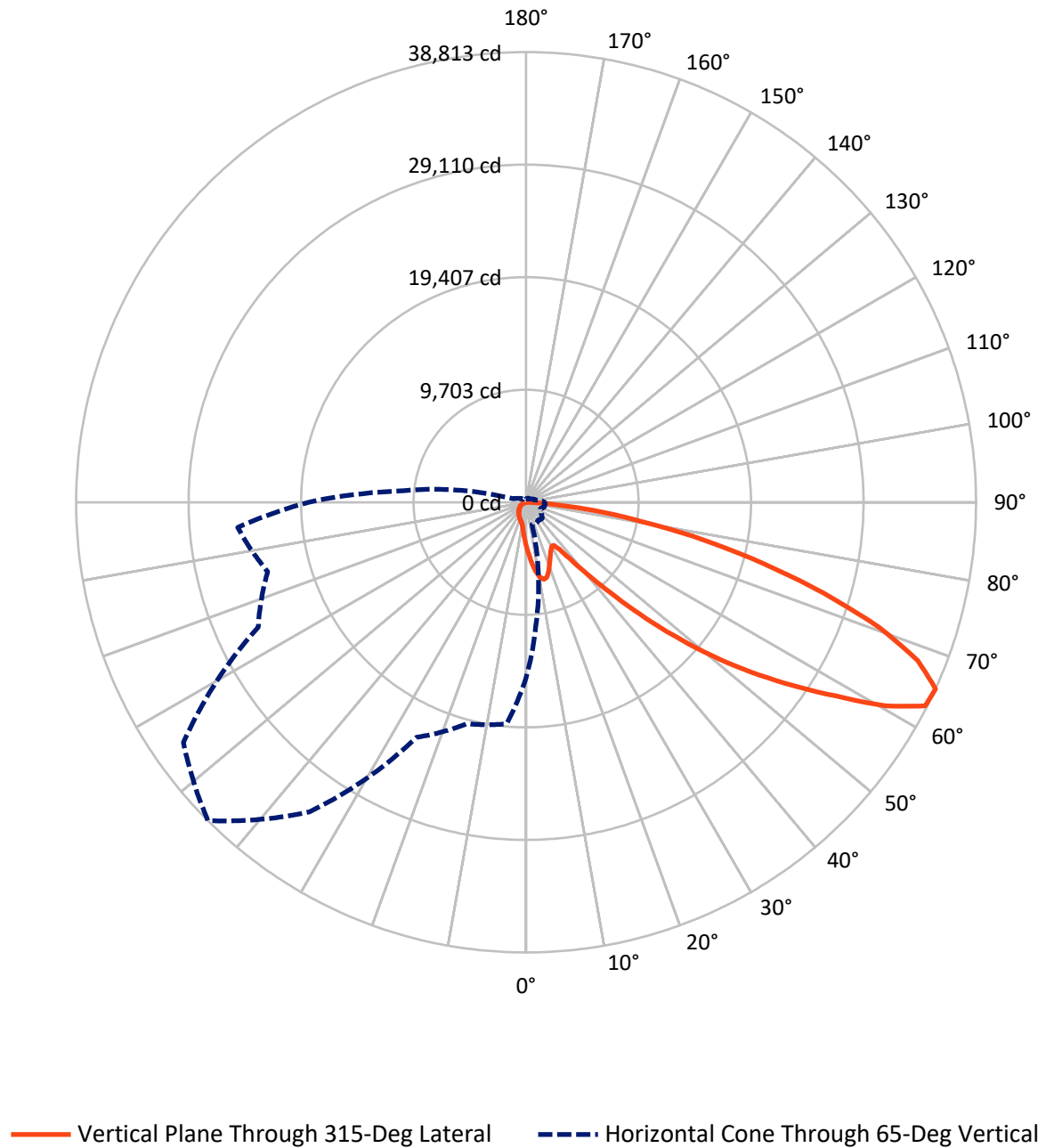
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	3867.6	0.0	3867.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	23749.4	0.0	23749.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	27617.0	0.0	27617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.5	1.4
10°-20°	1128.6	4.1
20°-30°	1662.7	6.0
30°-40°	2136.1	7.7
40°-50°	3454.7	12.5
50°-60°	6058.1	21.9
60°-70°	7580.4	27.4
70°-80°	4429.6	16.0
80°-90°	790.3	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°	27617.0	100.0
0°-180°	27617.0	100.0

Coefficient of Utilization



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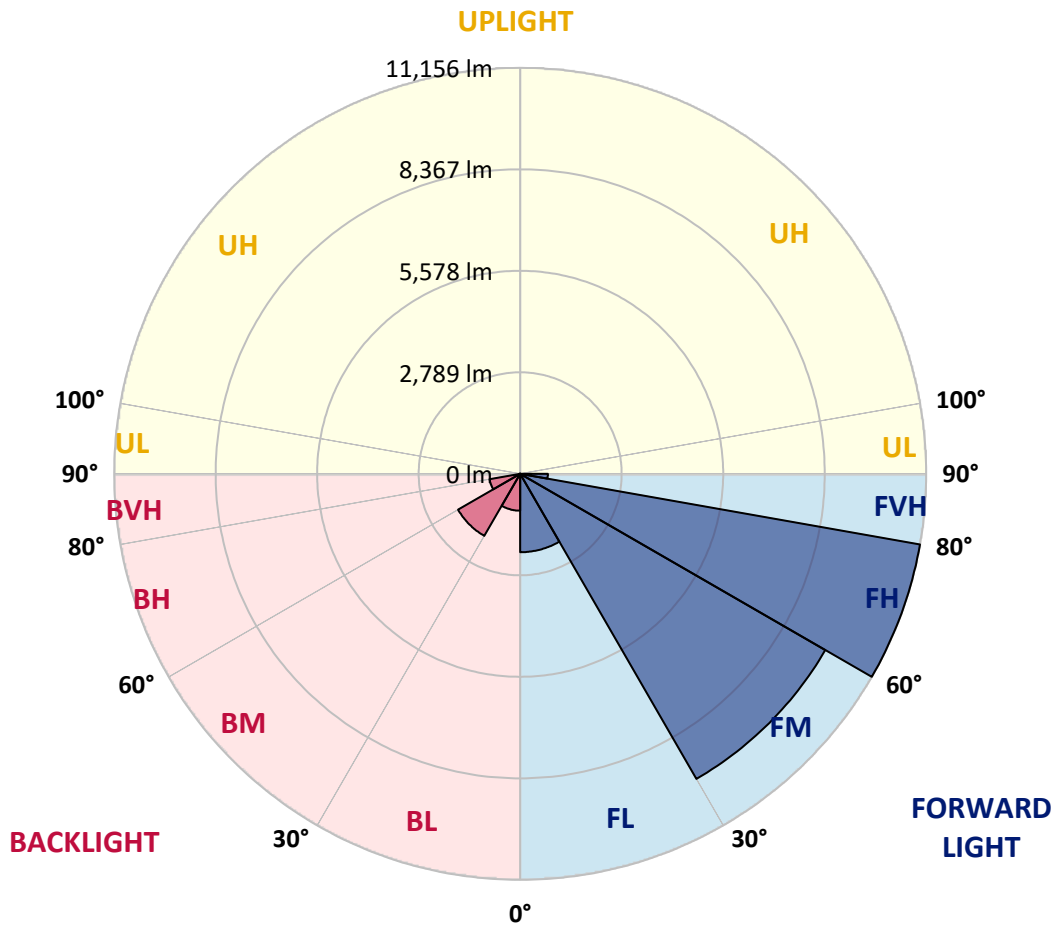
CATALOG NUMBER: GALN-SB5C-840-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2154.0	7.8			
FM (30°-60°)	9679.5	35.0			
FH (60°-80°)	11156.0	40.4			G4/12000
FVH (80°-90°)	759.9	2.8			G5
BL (0°-30°)	1013.8	3.7	B3/2500		
BM (30°-60°)	1969.5	7.1	B2/2500		
BH (60°-80°)	854.0	3.1	B2/1000		G2/1000
BVH (80°-90°)	30.4	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°	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1
2.5°	4320.6	4246.4	4202.7	4094.2	3985.8	3898.3	3780.3	3702.3	3609.1	3519.7
5°	4815.3	4695.4	4550.8	4353.0	4172.2	3987.7	3808.9	3631.9	3445.5	3274.2
7.5°	5233.8	5060.7	4805.8	4543.2	4313.0	4090.4	3881.1	3647.1	3420.7	3152.5
10°	5553.5	5332.8	4997.9	4653.6	4389.1	4164.6	3961.1	3763.2	3534.9	3211.5
12.5°	5747.5	5511.6	5114.0	4710.6	4408.1	4157.0	3999.1	3911.6	3822.2	3500.6
15°	5890.2	5635.3	5195.8	4750.6	4364.4	4056.2	3940.1	4027.6	4130.4	3924.9
17.5°	6038.6	5770.4	5302.3	4767.7	4246.4	3860.2	3810.8	4037.2	4275.0	4265.5
20°	6179.4	5913.0	5395.6	4756.3	4056.2	3622.4	3666.2	3955.3	4231.2	4347.3
22.5°	6341.1	6059.5	5485.0	4712.5	3808.9	3399.8	3536.8	3826.0	4067.6	4204.6
25°	6539.0	6244.1	5610.5	4647.9	3542.5	3215.3	3405.5	3675.7	3871.6	3966.8
27.5°	6752.1	6464.8	5778.0	4613.6	3327.5	3084.0	3257.1	3496.8	3671.9	3738.5
30°	7016.5	6721.6	5975.8	4575.6	3186.7	3007.9	3103.0	3289.5	3460.7	3527.3
32.5°	7305.7	7007.0	6166.1	4484.2	3101.1	2950.8	2952.7	3070.7	3226.7	3306.6
35°	7667.2	7349.4	6369.6	4284.5	3032.6	2884.2	2806.2	2863.3	2992.7	3087.8
37.5°	8182.8	7798.4	6618.9	3999.1	2931.8	2781.5	2652.1	2665.4	2764.4	2869.0
40°	8894.3	8401.5	6911.9	3702.3	2787.2	2636.9	2482.8	2477.1	2549.4	2652.1
42.5°	9857.0	9198.7	7263.8	3418.8	2648.3	2461.9	2304.0	2294.4	2351.5	2440.9
45°	11127.9	10218.4	7695.7	3175.3	2539.9	2290.6	2134.6	2130.8	2178.4	2256.4
47.5°	12754.5	11635.8	8127.6	3009.8	2482.8	2155.6	1995.7	2003.4	2045.2	2115.6
50°	14860.6	13483.2	8258.9	2926.1	2482.8	2083.3	1872.1	1910.1	1944.4	1997.6
52.5°	17385.3	15256.3	7825.1	2850.0	2498.0	2092.8	1767.4	1849.3	1874.0	1919.6
55°	19725.4	16125.8	6727.3	2745.3	2501.8	2151.8	1678.0	1799.8	1845.4	1862.6
57.5°	21083.8	15827.1	5439.3	2568.4	2486.6	2191.7	1620.9	1738.9	1826.4	1837.8
60°	20825.0	14778.8	4004.8	2433.3	2374.3	2176.5	1603.8	1645.7	1784.6	1801.7
62.5°	18831.2	13020.9	2779.6	2328.7	2127.0	2109.9	1598.1	1499.2	1693.2	1735.1
65°	15136.5	10250.8	1963.4	2005.3	1864.5	1965.3	1567.7	1347.0	1582.9	1640.0
67.5°	10981.4	6936.6	1417.4	1624.8	1689.4	1731.3	1499.2	1236.6	1457.3	1533.4
70°	7046.9	3746.1	995.0	1073.0	1423.1	1470.7	1381.2	1137.7	1329.9	1417.4
72.5°	5009.3	2212.6	715.3	751.5	1143.4	1225.2	1215.7	1027.4	1181.5	1288.0
75°	3456.9	1219.5	483.2	536.5	829.5	995.0	937.9	882.8	1000.7	1109.2
77.5°	2167.0	546.0	289.2	372.9	544.1	781.9	643.1	683.0	780.0	880.9
80°	1206.2	211.2	161.7	247.3	296.8	568.9	355.8	439.5	574.6	646.9
82.5°	262.5	26.6	72.3	106.5	116.1	331.0	188.3	254.9	361.5	355.8
85°	0.0	0.0	13.3	15.2	7.6	142.7	68.5	83.7	118.0	110.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
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°
3824.1	0°	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1
3439.8	2.5°	3424.5	3331.3	3262.8	3228.6	3200.0	3226.7	3241.9	3241.9	3306.6	3344.6
3169.6	5°	3103.0	2935.6	2808.1	2722.5	2671.1	2688.3	2707.3	2728.2	2810.0	2865.2
3009.8	7.5°	2880.4	2623.6	2429.5	2309.7	2246.9	2256.4	2269.7	2286.8	2366.7	2421.9
3032.6	10°	2838.6	2469.5	2195.5	2037.6	1961.5	1948.2	1940.6	1934.9	1982.4	2024.3
3291.4	12.5°	3009.8	2477.1	2094.7	1902.5	1809.3	1769.3	1723.7	1687.5	1695.1	1721.8
3683.3	15°	3316.1	2574.1	2062.3	1832.1	1716.1	1649.5	1596.2	1552.5	1542.9	1552.5
4025.7	17.5°	3666.2	2705.4	2058.5	1771.2	1626.7	1558.2	1514.4	1474.5	1461.1	1463.0
4217.9	20°	3898.3	2810.0	2047.1	1702.8	1541.0	1480.2	1442.1	1402.2	1388.8	1392.6
4164.6	22.5°	3921.1	2865.2	2030.0	1626.7	1455.4	1404.1	1366.0	1329.9	1328.0	1328.0
3964.9	25°	3797.4	2865.2	1993.8	1558.2	1373.6	1328.0	1293.7	1250.0	1257.6	1261.4
3738.5	27.5°	3605.3	2796.7	1925.4	1503.0	1303.2	1255.7	1221.4	1181.5	1191.0	1196.7
3527.3	30°	3415.0	2709.2	1843.5	1440.2	1236.6	1181.5	1156.7	1122.5	1126.3	1133.9
3318.0	32.5°	3238.1	2616.0	1746.5	1388.8	1170.1	1114.9	1095.9	1057.8	1063.5	1071.1
3112.5	35°	3063.1	2513.2	1632.4	1328.0	1109.2	1054.0	1038.8	995.0	998.8	1010.2
2907.1	37.5°	2874.7	2404.8	1539.1	1267.1	1050.2	993.1	977.9	932.2	936.0	949.4
2694.0	40°	2676.8	2298.2	1447.8	1202.4	987.4	930.3	917.0	867.6	871.4	886.6
2484.7	42.5°	2477.1	2182.2	1377.4	1118.7	922.7	861.8	848.5	802.9	808.6	825.7
2302.1	45°	2292.5	2043.3	1331.8	1025.5	861.8	793.4	780.0	738.2	749.6	768.6
2147.9	47.5°	2134.6	1900.6	1312.7	947.5	797.2	723.0	711.5	677.3	696.3	717.3
2016.7	50°	1999.6	1763.6	1288.0	867.6	736.3	662.1	650.7	627.8	652.6	673.5
1927.3	52.5°	1902.5	1607.6	1234.7	795.3	683.0	610.7	606.9	595.5	618.3	637.3
1860.7	55°	1818.8	1445.9	1149.1	732.5	635.4	567.0	570.8	565.0	584.1	599.3
1820.7	57.5°	1742.7	1305.1	1040.7	683.0	584.1	528.9	540.3	532.7	542.2	551.7
1778.9	60°	1651.4	1162.4	911.3	627.8	523.2	490.9	504.2	483.2	481.3	485.1
1702.8	62.5°	1516.3	970.3	776.2	559.3	469.9	449.0	454.7	414.7	384.3	384.3
1590.5	65°	1328.0	780.0	650.7	483.2	409.0	391.9	388.1	331.0	289.2	285.4
1468.7	67.5°	1109.2	641.2	540.3	407.1	340.6	329.1	332.9	291.1	249.2	245.4
1347.0	70°	903.7	530.8	435.7	325.3	262.5	274.0	291.1	249.2	209.3	203.6
1204.3	72.5°	734.4	422.4	340.6	249.2	194.1	226.4	247.3	203.6	165.5	161.7
1027.4	75°	567.0	310.1	243.5	169.3	140.8	175.0	194.1	148.4	118.0	112.2
795.3	77.5°	378.6	192.2	137.0	106.5	83.7	119.9	129.4	78.0	68.5	66.6
578.4	80°	230.2	89.4	59.0	51.4	28.5	43.8	51.4	32.3	36.1	38.1
308.2	82.5°	116.1	24.7	9.5	1.9	0.0	0.0	15.2	7.6	15.2	19.0
83.7	85°	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	9.5
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°
3824.1	0°	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1
3359.9	2.5°	3466.4	3546.3	3622.4	3744.2	3869.7	3993.4	4119.0	4240.7	4284.5	4316.8
2901.3	5°	3066.9	3217.2	3392.2	3633.8	3892.6	4158.9	4429.1	4676.4	4788.6	4864.8
2469.5	7.5°	2654.0	2850.0	3101.1	3464.5	3869.7	4294.0	4718.3	5108.3	5289.0	5435.5
2062.3	10°	2245.0	2458.1	2775.8	3190.5	3738.5	4347.3	4933.2	5469.8	5703.8	5888.3
1769.3	12.5°	1885.4	2085.2	2418.1	2876.6	3533.0	4305.4	5056.9	5701.9	5977.7	6185.1
1560.1	15°	1632.4	1773.2	2068.0	2562.7	3289.5	4170.3	5064.5	5812.2	6114.7	6331.6
1472.6	17.5°	1491.6	1539.1	1731.3	2243.1	3019.3	3993.4	4994.1	5850.3	6173.7	6375.4
1394.5	20°	1415.5	1423.1	1476.4	1828.3	2673.0	3827.9	4927.5	5888.3	6228.9	6398.2
1339.4	22.5°	1354.6	1354.6	1367.9	1495.4	2226.0	3630.0	4906.6	5954.9	6305.0	6409.6
1276.6	25°	1299.4	1299.4	1303.2	1337.5	1763.6	3327.5	4893.3	6057.6	6409.6	6438.1
1213.8	27.5°	1242.3	1244.2	1244.2	1263.3	1421.2	2916.6	4836.2	6190.8	6535.2	6476.2
1152.9	30°	1185.3	1189.1	1189.1	1202.4	1257.6	2435.2	4724.0	6350.6	6698.8	6525.7
1092.0	32.5°	1128.2	1132.0	1132.0	1143.4	1183.4	1944.4	4583.2	6497.1	6864.3	6546.6
1033.1	35°	1069.2	1074.9	1071.1	1086.3	1128.2	1546.8	4404.3	6643.6	7043.1	6613.2
976.0	37.5°	1010.2	1014.0	1012.1	1027.4	1074.9	1335.6	4197.0	6754.0	7286.7	6761.6
915.1	40°	951.3	949.4	949.4	966.5	1017.8	1274.7	3936.3	6929.0	7636.7	7022.2
854.2	42.5°	890.4	890.4	886.6	905.6	968.4	1229.0	3687.1	7242.9	8146.6	7437.0
797.2	45°	835.2	833.3	825.7	842.8	920.8	1149.1	3599.6	7828.9	8900.0	8108.6
740.1	47.5°	781.9	780.0	761.0	776.2	863.7	1076.8	3926.8	8787.8	9944.5	9096.0
694.4	50°	734.4	736.3	700.1	713.4	806.7	1021.7	4636.4	10032.0	11331.4	10425.8
656.4	52.5°	690.6	690.6	643.1	650.7	736.3	972.2	5311.8	11380.9	13161.7	12280.8
616.4	55°	646.9	643.1	589.8	593.6	665.9	901.8	5412.7	12697.4	15657.8	15071.8
572.7	57.5°	597.4	589.8	540.3	540.3	601.2	850.4	4691.6	13709.6	18755.1	19173.6
490.9	60°	536.5	530.8	498.5	488.9	549.8	896.1	3310.4	13827.5	20752.7	24628.2
390.0	62.5°	458.5	466.1	449.0	435.7	500.4	930.3	1961.5	12878.2	20269.5	26363.3
302.5	65°	361.5	391.9	388.1	378.6	549.8	783.8	1158.6	11055.6	18787.4	24963.0
264.5	67.5°	308.2	329.1	323.4	323.4	576.5	595.5	728.7	8637.5	16747.9	23302.1
220.7	70°	262.5	283.5	262.5	262.5	435.7	361.5	504.2	6031.0	14546.7	21464.3
176.9	72.5°	216.9	237.8	215.0	199.8	348.2	270.2	369.1	3768.9	12457.7	19550.3
125.6	75°	165.5	190.3	173.1	154.1	230.2	201.7	279.7	2189.8	10321.2	16727.0
76.1	77.5°	104.6	137.0	129.4	108.4	169.3	146.5	201.7	1303.2	7964.0	13070.3
45.7	80°	64.7	70.4	72.3	68.5	97.0	98.9	137.0	742.0	5450.7	9109.3
28.5	82.5°	41.9	41.9	32.3	36.1	47.6	57.1	78.0	279.7	3203.8	5545.9
17.1	85°	30.4	26.6	17.1	17.1	22.8	28.5	30.4	85.6	1299.4	2189.8
7.6	87.5°	15.2	13.3	5.7	7.6	11.4	9.5	7.6	3.8	327.2	700.1
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°
3824.1	0°	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1
4389.1	2.5°	4427.2	4486.1	4490.0	4490.0	4438.6	4436.7	4332.0	4320.6
5036.0	5°	5212.9	5251.0	5260.5	5241.5	5138.7	5062.6	4859.0	4815.3
5696.2	7.5°	5932.1	6008.2	6008.2	5962.5	5795.1	5639.1	5344.2	5233.8
6242.2	10°	6506.6	6594.1	6575.1	6481.9	6270.7	6055.7	5698.1	5553.5
6573.2	12.5°	6786.3	6875.7	6826.3	6719.7	6514.2	6287.8	5911.1	5747.5
6668.3	15°	6780.6	6755.9	6704.5	6691.2	6592.2	6421.0	6069.0	5890.2
6609.4	17.5°	6539.0	6329.7	6289.7	6422.9	6548.5	6506.6	6206.0	6038.6
6468.6	20°	6156.6	5791.3	5755.1	6010.1	6367.7	6550.4	6333.5	6179.4
6265.0	22.5°	5753.2	5359.4	5275.7	5557.3	6095.7	6563.7	6495.2	6341.1
6040.5	25°	5370.8	4975.1	4891.4	5153.9	5793.2	6540.9	6670.2	6539.0
5825.5	27.5°	5051.2	4668.8	4590.8	4853.3	5502.1	6476.2	6845.3	6752.1
5612.4	30°	4803.9	4450.0	4392.9	4646.0	5251.0	6396.3	7067.9	7016.5
5414.6	32.5°	4659.3	4400.5	4421.5	4628.8	5115.9	6308.8	7281.0	7305.7
5317.6	35°	4802.0	4813.4	4996.0	5081.6	5241.5	6295.4	7570.1	7667.2
5433.6	37.5°	5511.6	5907.3	6285.9	6215.5	5856.0	6449.6	8002.0	8182.8
5939.7	40°	6719.7	7532.1	8146.6	7878.3	6972.7	6921.4	8624.1	8894.3
6837.7	42.5°	8196.1	9573.5	10585.6	9866.5	8413.0	7747.1	9512.6	9857.0
7924.0	45°	9754.2	12090.5	13684.8	12189.5	9948.3	8903.8	10857.7	11127.9
8941.9	47.5°	11396.1	15149.8	17212.1	14765.5	11371.4	10220.4	12691.7	12754.5
9906.4	50°	13192.1	18503.9	20807.9	17339.6	12745.0	11729.1	14932.9	14860.6
11030.8	52.5°	14902.5	21953.2	24327.6	19925.1	13951.2	13601.1	17533.7	17385.3
12568.1	55°	16534.8	25400.6	27868.2	22409.8	15088.9	16074.4	20623.3	19725.4
14784.5	57.5°	18427.8	28499.8	31517.2	24905.9	16679.4	19285.9	24078.3	21083.8
19029.0	60°	21226.4	32021.4	35643.8	28326.7	19704.4	22660.9	25316.9	20825.0
24112.6	62.5°	24799.4	35259.5	38644.0	31678.9	22742.8	23296.4	23492.4	18831.2
23075.7	65°	25493.8	36079.4	38813.4	32575.0	22350.8	19761.5	19179.3	15136.5
20611.9	67.5°	23652.2	34597.4	36446.6	30906.5	19771.0	15271.6	14392.6	10981.4
18994.8	70°	21586.0	31772.1	32322.0	28069.8	17389.1	11232.5	9720.0	7046.9
17887.5	72.5°	19468.5	28003.2	26865.5	24377.0	15283.0	8178.9	7010.8	5009.3
16310.3	75°	16953.4	23047.2	21161.8	20254.3	12653.7	6419.1	5072.1	3456.9
14029.2	77.5°	13576.4	16222.8	15718.6	15699.6	9508.8	4689.7	3384.6	2167.0
10960.4	80°	9577.3	10528.6	10271.7	11824.2	6379.2	3401.7	2037.6	1206.2
7629.1	82.5°	4636.4	5821.7	5975.8	7041.2	3103.0	2001.5	469.9	262.5
2983.2	85°	1815.0	2808.1	2368.6	2673.0	871.4	557.4	11.4	0.0
490.9	87.5°	203.6	325.3	298.7	235.9	106.5	22.8	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)