

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: P951687

Luminaire Tested: **GALN-SB5D-735-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951687
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-SB5D-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 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: 39231 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

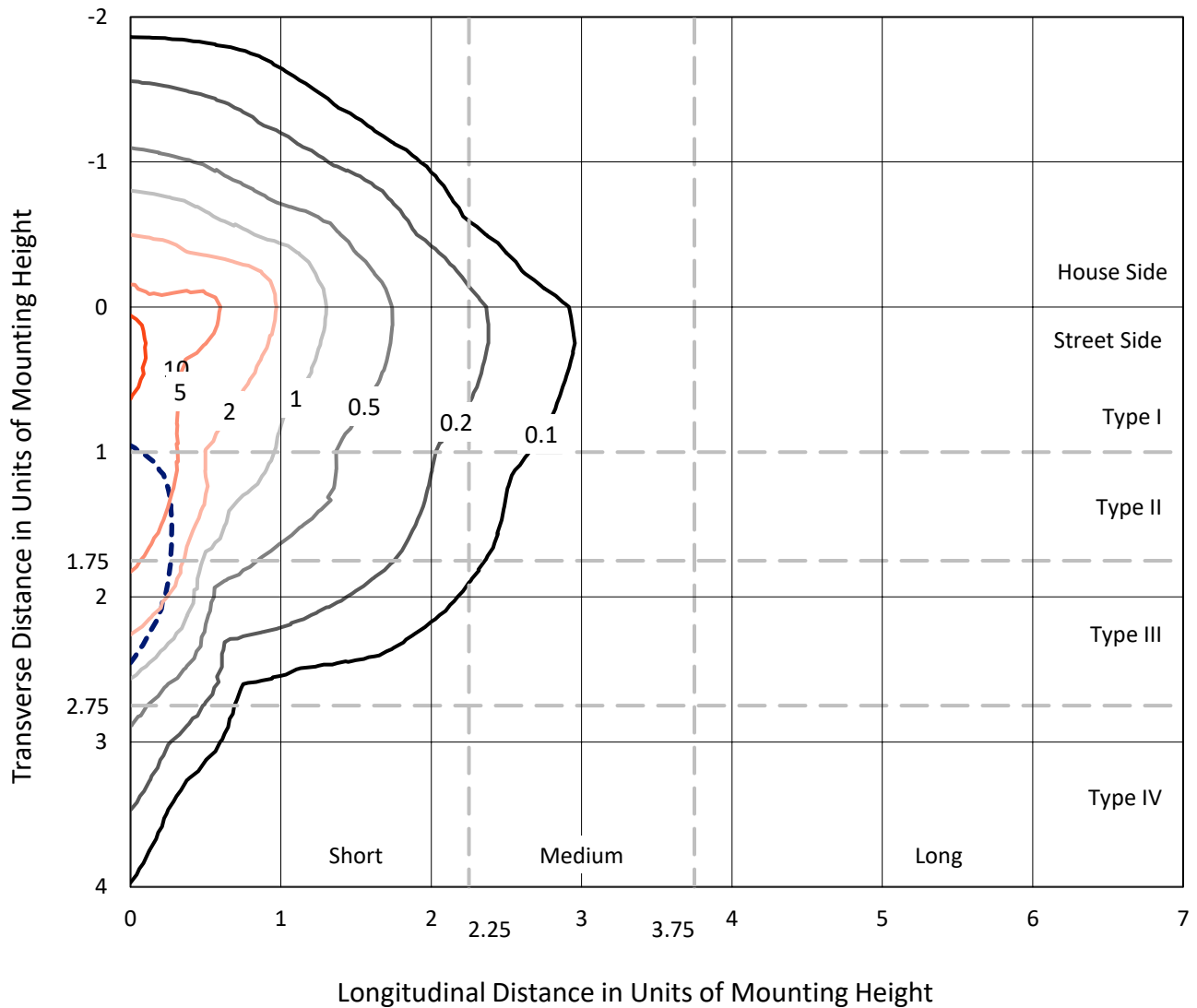
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

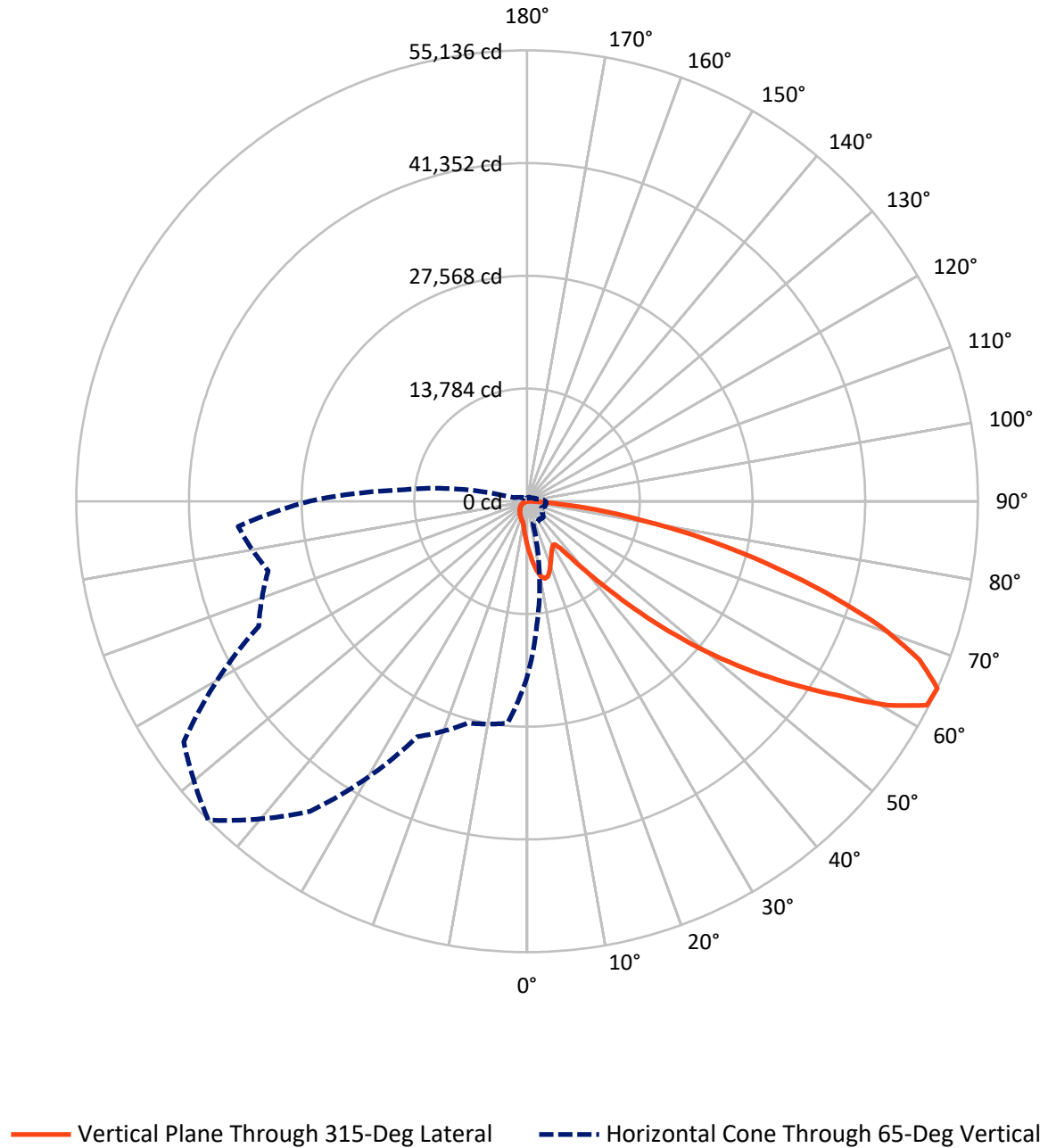
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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	5494.0	0.0	5494.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	33737.0	0.0	33737.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	39231.0	0.0	39231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.8	1.4
10°-20°	1603.2	4.1
20°-30°	2361.9	6.0
30°-40°	3034.4	7.7
40°-50°	4907.5	12.5
50°-60°	8605.8	21.9
60°-70°	10768.2	27.4
70°-80°	6292.4	16.0
80°-90°	1122.7	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°	39231.0	100.0
0°-180°	39231.0	100.0

Coefficient of Utilization



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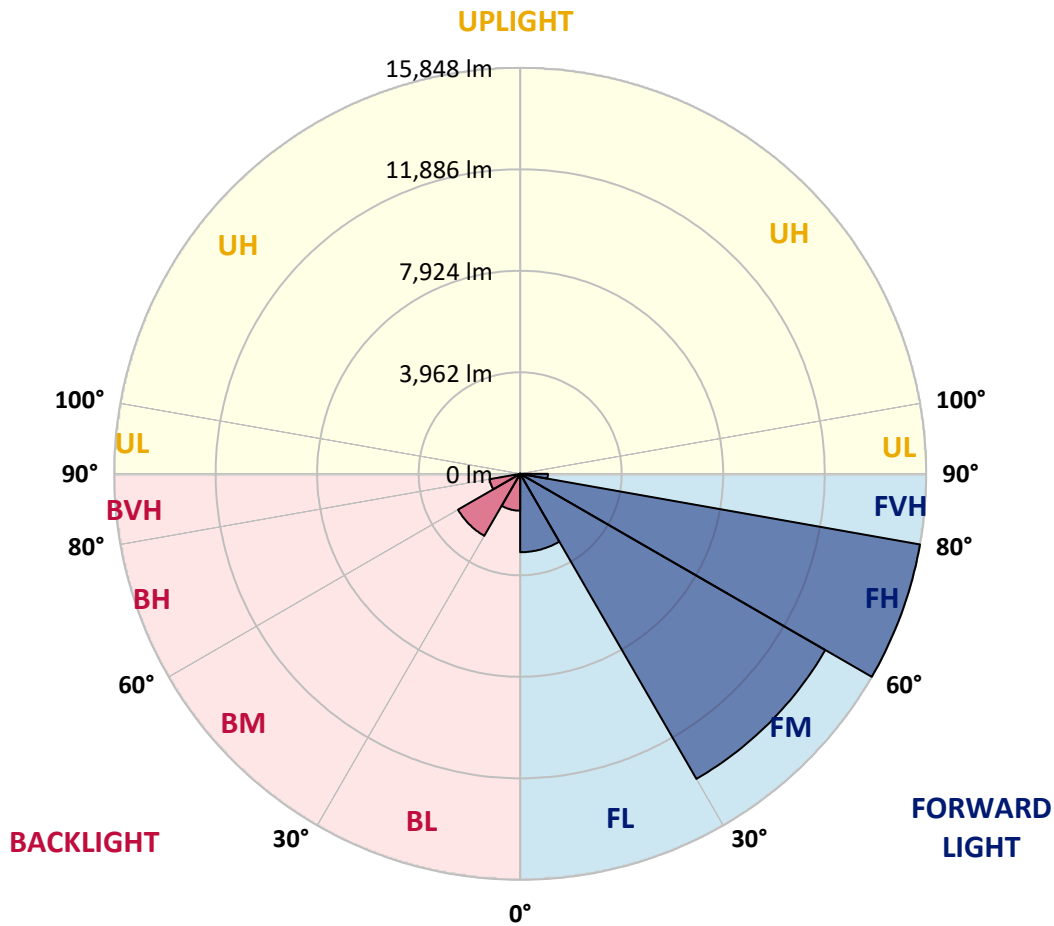
CATALOG NUMBER: GALN-SB5D-735-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3059.9	7.8			
FM (30°-60°)	13750.0	35.0			
FH (60°-80°)	15847.5	40.4			G5
FVH (80°-90°)	1079.5	2.8			G5
BL (0°-30°)	1440.1	3.7	B3/2500		
BM (30°-60°)	2797.7	7.1	B3/5000		
BH (60°-80°)	1213.1	3.1	B3/2500		G3/2500
BVH (80°-90°)	43.1	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°	5432.2	5432.2	5432.2	5432.2	5432.2	5432.2	5432.2	5432.2	5432.2	5432.2
2.5°	6137.6	6032.2	5970.1	5816.0	5662.0	5537.6	5370.1	5259.3	5126.8	4999.8
5°	6840.3	6670.0	6464.6	6183.6	5926.8	5664.7	5410.6	5159.3	4894.4	4651.2
7.5°	7434.9	7188.9	6826.8	6453.8	6126.8	5810.6	5513.3	5180.9	4859.3	4478.2
10°	7888.9	7575.4	7099.7	6610.6	6234.9	5916.0	5626.8	5345.8	5021.4	4562.0
12.5°	8164.6	7829.4	7264.6	6691.7	6261.9	5905.2	5680.9	5556.6	5429.5	4972.8
15°	8367.3	8005.1	7380.8	6748.4	6199.8	5762.0	5597.1	5721.4	5867.4	5575.5
17.5°	8578.1	8197.0	7532.2	6772.7	6032.2	5483.6	5413.3	5734.9	6072.8	6059.2
20°	8778.1	8399.7	7664.6	6756.5	5762.0	5145.8	5207.9	5618.7	6010.6	6175.5
22.5°	9007.8	8607.8	7791.6	6694.4	5410.6	4829.6	5024.1	5434.9	5778.2	5972.8
25°	9288.9	8870.0	7970.0	6602.5	5032.3	4567.4	4837.7	5221.4	5499.8	5634.9
27.5°	9591.5	9183.5	8207.8	6553.8	4726.9	4380.9	4626.9	4967.4	5216.0	5310.6
30°	9967.2	9548.3	8488.9	6499.8	4526.9	4272.8	4408.0	4672.8	4916.0	5010.6
32.5°	10378.0	9953.7	8759.1	6370.0	4405.2	4191.7	4194.4	4362.0	4583.6	4697.1
35°	10891.5	10440.2	9048.3	6086.3	4308.0	4097.2	3986.3	4067.4	4251.2	4386.3
37.5°	11623.9	11078.0	9402.4	5680.9	4164.7	3951.2	3767.4	3786.4	3926.9	4075.5
40°	12634.7	11934.7	9818.6	5259.3	3959.3	3745.8	3526.9	3518.8	3621.5	3767.4
42.5°	14002.2	13067.1	10318.5	4856.6	3762.0	3497.2	3272.9	3259.3	3340.4	3467.4
45°	15807.5	14515.7	10932.0	4510.6	3608.0	3253.9	3032.3	3026.9	3094.5	3205.3
47.5°	18118.3	16529.1	11545.5	4275.5	3526.9	3062.1	2835.0	2845.8	2905.3	3005.3
50°	21110.1	19153.4	11732.0	4156.6	3526.9	2959.4	2659.4	2713.4	2762.1	2837.7
52.5°	24696.4	21672.2	11115.8	4048.5	3548.5	2972.9	2510.7	2626.9	2662.1	2726.9
55°	28020.6	22907.3	9556.4	3899.9	3553.9	3056.6	2383.7	2556.7	2621.5	2645.9
57.5°	29950.3	22483.0	7726.8	3648.5	3532.3	3113.4	2302.6	2470.2	2594.5	2610.7
60°	29582.7	20993.8	5689.0	3456.6	3372.9	3091.8	2278.3	2337.8	2535.0	2559.4
62.5°	26750.4	18496.6	3948.5	3308.0	3021.5	2997.2	2270.2	2129.7	2405.3	2464.8
65°	21501.9	14561.6	2789.1	2848.5	2648.6	2791.8	2226.9	1913.4	2248.6	2329.6
67.5°	15599.4	9853.7	2013.4	2308.0	2399.9	2459.4	2129.7	1756.7	2070.2	2178.3
70°	10010.5	5321.4	1413.5	1524.3	2021.5	2089.1	1962.1	1616.2	1889.1	2013.4
72.5°	7116.0	3143.1	1016.2	1067.5	1624.3	1740.5	1727.0	1459.4	1678.3	1829.7
75°	4910.6	1732.4	686.5	762.1	1178.3	1413.5	1332.4	1254.0	1421.6	1575.6
77.5°	3078.3	775.6	410.8	529.7	772.9	1110.8	913.5	970.2	1108.1	1251.3
80°	1713.5	300.0	229.7	351.3	421.6	808.1	505.4	624.3	816.2	918.9
82.5°	373.0	37.8	102.7	151.3	164.9	470.3	267.6	362.1	513.5	505.4
85°	0.0	0.0	18.9	21.6	10.8	202.7	97.3	118.9	167.6	156.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
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°
5432.2	0°	5432.2	5432.2	5432.2	5432.2	5432.2	5432.2	5432.2	5432.2	5432.2	5432.2
4886.3	2.5°	4864.7	4732.3	4635.0	4586.3	4545.8	4583.6	4605.2	4605.2	4697.1	4751.2
4502.5	5°	4408.0	4170.1	3989.0	3867.4	3794.5	3818.8	3845.8	3875.5	3991.7	4070.1
4275.5	7.5°	4091.7	3726.9	3451.2	3281.0	3191.8	3205.3	3224.2	3248.5	3362.0	3440.4
4308.0	10°	4032.3	3508.0	3118.8	2894.5	2786.4	2767.5	2756.7	2748.6	2816.1	2875.6
4675.5	12.5°	4275.5	3518.8	2975.6	2702.6	2570.2	2513.4	2448.6	2397.2	2408.0	2445.9
5232.2	15°	4710.6	3656.6	2929.6	2602.6	2437.8	2343.2	2267.5	2205.3	2191.8	2205.3
5718.7	17.5°	5207.9	3843.1	2924.2	2516.1	2310.7	2213.4	2151.3	2094.5	2075.6	2078.3
5991.7	20°	5537.6	3991.7	2908.0	2418.8	2189.1	2102.6	2048.6	1991.8	1972.9	1978.3
5916.0	22.5°	5570.1	4070.1	2883.7	2310.7	2067.5	1994.5	1940.5	1889.1	1886.4	1886.4
5632.2	25°	5394.4	4070.1	2832.3	2213.4	1951.3	1886.4	1837.8	1775.6	1786.4	1791.8
5310.6	27.5°	5121.4	3972.8	2735.0	2135.1	1851.3	1783.7	1735.1	1678.3	1691.8	1699.9
5010.6	30°	4851.2	3848.5	2618.8	2045.9	1756.7	1678.3	1643.2	1594.5	1599.9	1610.8
4713.3	32.5°	4599.8	3716.1	2481.0	1972.9	1662.1	1583.7	1556.7	1502.6	1510.8	1521.6
4421.5	35°	4351.2	3570.1	2318.8	1886.4	1575.6	1497.2	1475.6	1413.5	1418.9	1435.1
4129.6	37.5°	4083.6	3416.1	2186.4	1799.9	1491.8	1410.8	1389.1	1324.3	1329.7	1348.6
3826.9	40°	3802.6	3264.7	2056.7	1708.0	1402.7	1321.6	1302.7	1232.4	1237.8	1259.4
3529.6	42.5°	3518.8	3099.9	1956.7	1589.1	1310.8	1224.3	1205.4	1140.5	1148.6	1172.9
3270.2	45°	3256.6	2902.6	1891.8	1456.7	1224.3	1127.0	1108.1	1048.6	1064.8	1091.9
3051.2	47.5°	3032.3	2699.9	1864.8	1345.9	1132.4	1027.0	1010.8	962.1	989.2	1018.9
2864.8	50°	2840.4	2505.3	1829.7	1232.4	1045.9	940.5	924.3	891.9	927.0	956.7
2737.7	52.5°	2702.6	2283.7	1754.0	1129.7	970.2	867.5	862.1	845.9	878.3	905.4
2643.1	55°	2583.7	2054.0	1632.4	1040.5	902.7	805.4	810.8	802.7	829.7	851.3
2586.4	57.5°	2475.6	1854.0	1478.3	970.2	829.7	751.3	767.5	756.7	770.2	783.8
2526.9	60°	2345.9	1651.3	1294.5	891.9	743.2	697.3	716.2	686.5	683.8	689.2
2418.8	62.5°	2154.0	1378.3	1102.7	794.6	667.5	637.8	645.9	589.2	545.9	545.9
2259.4	65°	1886.4	1108.1	924.3	686.5	581.1	556.7	551.3	470.3	410.8	405.4
2086.4	67.5°	1575.6	910.8	767.5	578.4	483.8	467.6	473.0	413.5	354.0	348.6
1913.4	70°	1283.7	754.0	618.9	462.1	373.0	389.2	413.5	354.0	297.3	289.2
1710.7	72.5°	1043.2	600.0	483.8	354.0	275.7	321.6	351.3	289.2	235.1	229.7
1459.4	75°	805.4	440.5	345.9	240.5	200.0	248.6	275.7	210.8	167.6	159.5
1129.7	77.5°	537.8	273.0	194.6	151.3	118.9	170.3	183.8	110.8	97.3	94.6
821.6	80°	327.0	127.0	83.8	73.0	40.5	62.2	73.0	45.9	51.3	54.1
437.8	82.5°	164.9	35.1	13.5	2.7	0.0	0.0	21.6	10.8	21.6	27.0
118.9	85°	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	13.5
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°
5432.2	0°	5432.2	5432.2	5432.2	5432.2	5432.2	5432.2	5432.2	5432.2	5432.2	5432.2
4772.8	2.5°	4924.1	5037.7	5145.8	5318.7	5497.1	5672.8	5851.1	6024.1	6086.3	6132.2
4121.5	5°	4356.6	4570.1	4818.7	5162.0	5529.5	5907.9	6291.7	6643.0	6802.5	6910.6
3508.0	7.5°	3770.1	4048.5	4405.2	4921.4	5497.1	6099.8	6702.5	7256.5	7513.2	7721.3
2929.6	10°	3189.1	3491.8	3943.1	4532.3	5310.6	6175.5	7007.9	7770.0	8102.4	8364.6
2513.4	12.5°	2678.3	2962.1	3435.0	4086.3	5018.7	6116.0	7183.5	8099.7	8491.6	8786.2
2216.1	15°	2318.8	2518.8	2937.7	3640.4	4672.8	5924.1	7194.3	8256.5	8686.2	8994.3
2091.8	17.5°	2118.8	2186.4	2459.4	3186.4	4289.0	5672.8	7094.3	8310.5	8770.0	9056.4
1981.0	20°	2010.7	2021.5	2097.2	2597.2	3797.2	5437.6	6999.7	8364.6	8848.3	9088.9
1902.6	22.5°	1924.3	1924.3	1943.2	2124.2	3162.0	5156.6	6970.0	8459.2	8956.4	9105.1
1813.4	25°	1845.9	1845.9	1851.3	1899.9	2505.3	4726.9	6951.1	8605.1	9105.1	9145.6
1724.3	27.5°	1764.8	1767.5	1767.5	1794.5	2018.8	4143.1	6870.0	8794.3	9283.5	9199.7
1637.8	30°	1683.7	1689.1	1689.1	1708.0	1786.4	3459.3	6710.6	9021.3	9515.9	9269.9
1551.3	32.5°	1602.6	1608.1	1608.1	1624.3	1681.0	2762.1	6510.6	9229.4	9751.0	9299.7
1467.5	35°	1518.9	1527.0	1521.6	1543.2	1602.6	2197.2	6256.5	9437.5	10005.0	9394.3
1386.4	37.5°	1435.1	1440.5	1437.8	1459.4	1527.0	1897.2	5961.9	9594.3	10351.0	9605.1
1300.0	40°	1351.3	1348.6	1348.6	1372.9	1445.9	1810.7	5591.7	9842.9	10848.3	9975.3
1213.5	42.5°	1264.8	1264.8	1259.4	1286.4	1375.6	1745.9	5237.7	10288.8	11572.6	10564.5
1132.4	45°	1186.4	1183.7	1172.9	1197.3	1308.1	1632.4	5113.3	11121.2	12642.8	11518.5
1051.3	47.5°	1110.8	1108.1	1081.0	1102.7	1227.0	1529.7	5578.2	12483.3	14126.5	12921.2
986.5	50°	1043.2	1045.9	994.6	1013.5	1145.9	1451.3	6586.3	14250.8	16096.7	14810.3
932.4	52.5°	981.0	981.0	913.5	924.3	1045.9	1381.0	7545.7	16167.0	18696.6	17445.3
875.6	55°	918.9	913.5	837.8	843.2	945.9	1281.0	7688.9	18037.2	22242.4	21410.0
813.5	57.5°	848.6	837.8	767.5	767.5	854.0	1208.1	6664.6	19475.0	26642.3	27236.9
697.3	60°	762.1	754.0	708.1	694.6	781.1	1272.9	4702.5	19642.5	29480.0	34985.2
554.0	62.5°	651.3	662.1	637.8	618.9	710.8	1321.6	2786.4	18293.9	28793.6	37450.0
429.7	65°	513.5	556.7	551.3	537.8	781.1	1113.5	1645.9	15704.8	26688.2	35460.9
375.7	67.5°	437.8	467.6	459.4	459.4	818.9	845.9	1035.1	12269.8	23791.0	33101.5
313.5	70°	373.0	402.7	373.0	373.0	618.9	513.5	716.2	8567.3	20664.1	30490.8
251.3	72.5°	308.1	337.8	305.4	283.8	494.6	383.8	524.3	5353.9	17696.7	27772.0
178.4	75°	235.1	270.3	245.9	218.9	327.0	286.5	397.3	3110.7	14661.6	23761.3
108.1	77.5°	148.6	194.6	183.8	154.0	240.5	208.1	286.5	1851.3	11313.1	18566.9
64.9	80°	91.9	100.0	102.7	97.3	137.8	140.5	194.6	1054.0	7743.0	12940.1
40.5	82.5°	59.5	59.5	45.9	51.3	67.6	81.1	110.8	397.3	4551.2	7878.1
24.3	85°	43.2	37.8	24.3	24.3	32.4	40.5	43.2	121.6	1845.9	3110.7
10.8	87.5°	21.6	18.9	8.1	10.8	16.2	13.5	10.8	5.4	464.8	994.6
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°
5432.2	0°	5432.2	5432.2	5432.2	5432.2	5432.2	5432.2	5432.2	5432.2
6234.9	2.5°	6289.0	6372.7	6378.2	6378.2	6305.2	6302.5	6153.8	6137.6
7153.8	5°	7405.1	7459.2	7472.7	7445.7	7299.7	7191.6	6902.5	6840.3
8091.6	7.5°	8426.7	8534.8	8534.8	8470.0	8232.1	8010.5	7591.6	7434.9
8867.3	10°	9242.9	9367.2	9340.2	9207.8	8907.8	8602.4	8094.3	7888.9
9337.5	12.5°	9640.2	9767.2	9697.0	9545.6	9253.7	8932.1	8397.0	8164.6
9472.6	15°	9632.1	9597.0	9524.0	9505.1	9364.5	9121.3	8621.3	8367.3
9388.9	17.5°	9288.9	8991.6	8934.8	9124.0	9302.4	9242.9	8815.9	8578.1
9188.9	20°	8745.6	8226.7	8175.4	8537.5	9045.6	9305.1	8997.0	8778.1
8899.7	22.5°	8172.7	7613.2	7494.3	7894.3	8659.1	9324.0	9226.7	9007.8
8580.8	25°	7629.5	7067.3	6948.4	7321.4	8229.4	9291.6	9475.3	9288.9
8275.4	27.5°	7175.4	6632.2	6521.4	6894.3	7815.9	9199.7	9724.0	9591.5
7972.7	30°	6824.1	6321.4	6240.3	6599.8	7459.2	9086.2	10040.2	9967.2
7691.6	32.5°	6618.7	6251.1	6280.9	6575.4	7267.3	8961.8	10342.9	10378.0
7553.8	35°	6821.4	6837.6	7097.0	7218.7	7445.7	8942.9	10753.7	10891.5
7718.6	37.5°	7829.4	8391.6	8929.4	8829.4	8318.6	9161.8	11367.2	11623.9
8437.5	40°	9545.6	10699.6	11572.6	11191.5	9905.1	9832.1	12250.9	12634.7
9713.2	42.5°	11642.8	13599.5	15037.3	14015.7	11950.9	11005.0	13513.0	14002.2
11256.4	45°	13856.3	17175.1	19439.8	17315.6	14131.9	12648.2	15423.8	15807.5
12702.2	47.5°	16188.6	21520.9	24450.5	20974.9	16153.5	14518.4	18029.1	18118.3
14072.5	50°	18739.9	26285.5	29558.4	24631.6	18104.8	16661.6	21212.8	21110.1
15669.7	52.5°	21169.5	31185.4	34558.2	28304.4	19818.2	19320.9	24907.2	24696.4
17853.4	55°	23488.3	36082.5	39587.8	31834.0	21434.4	22834.3	29296.2	28020.6
21002.0	57.5°	26177.4	40485.0	44771.4	35379.8	23693.7	27396.3	34204.2	29950.3
27031.5	60°	30153.0	45487.6	50633.3	40239.1	27990.9	32190.7	35963.6	29582.7
34252.8	62.5°	35228.5	50087.4	54895.3	45001.1	32307.0	33093.4	33371.8	26750.4
32779.9	65°	36214.9	51252.2	55135.9	46274.0	31750.2	28072.0	27245.0	21501.9
29280.0	67.5°	33598.8	49146.9	51773.8	43903.8	28085.5	21693.8	20445.2	15599.4
26982.8	70°	30663.8	45133.5	45914.6	39874.2	24701.8	15956.2	13807.6	10010.5
25409.9	72.5°	27655.8	39779.7	38163.5	34628.5	21710.0	11618.5	9959.1	7116.0
23169.4	75°	24082.9	32739.4	30061.1	28771.9	17975.0	9118.6	7205.1	4910.6
19929.0	77.5°	19285.8	23045.1	22328.9	22301.9	13507.6	6661.9	4807.9	3078.3
15569.7	80°	13604.9	14956.2	14591.4	16796.7	9061.8	4832.3	2894.5	1713.5
10837.5	82.5°	6586.3	8270.0	8488.9	10002.3	4408.0	2843.1	667.5	373.0
4237.7	85°	2578.3	3989.0	3364.7	3797.2	1237.8	791.9	16.2	0.0
697.3	87.5°	289.2	462.1	424.3	335.1	151.3	32.4	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)