

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: P955215

Luminaire Tested: **GALN-SB8B-727-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955215
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-SB8B-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 450mA 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: 32233 lumens
Efficiency: N/A
Efficacy: 110.1 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): 292.8
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

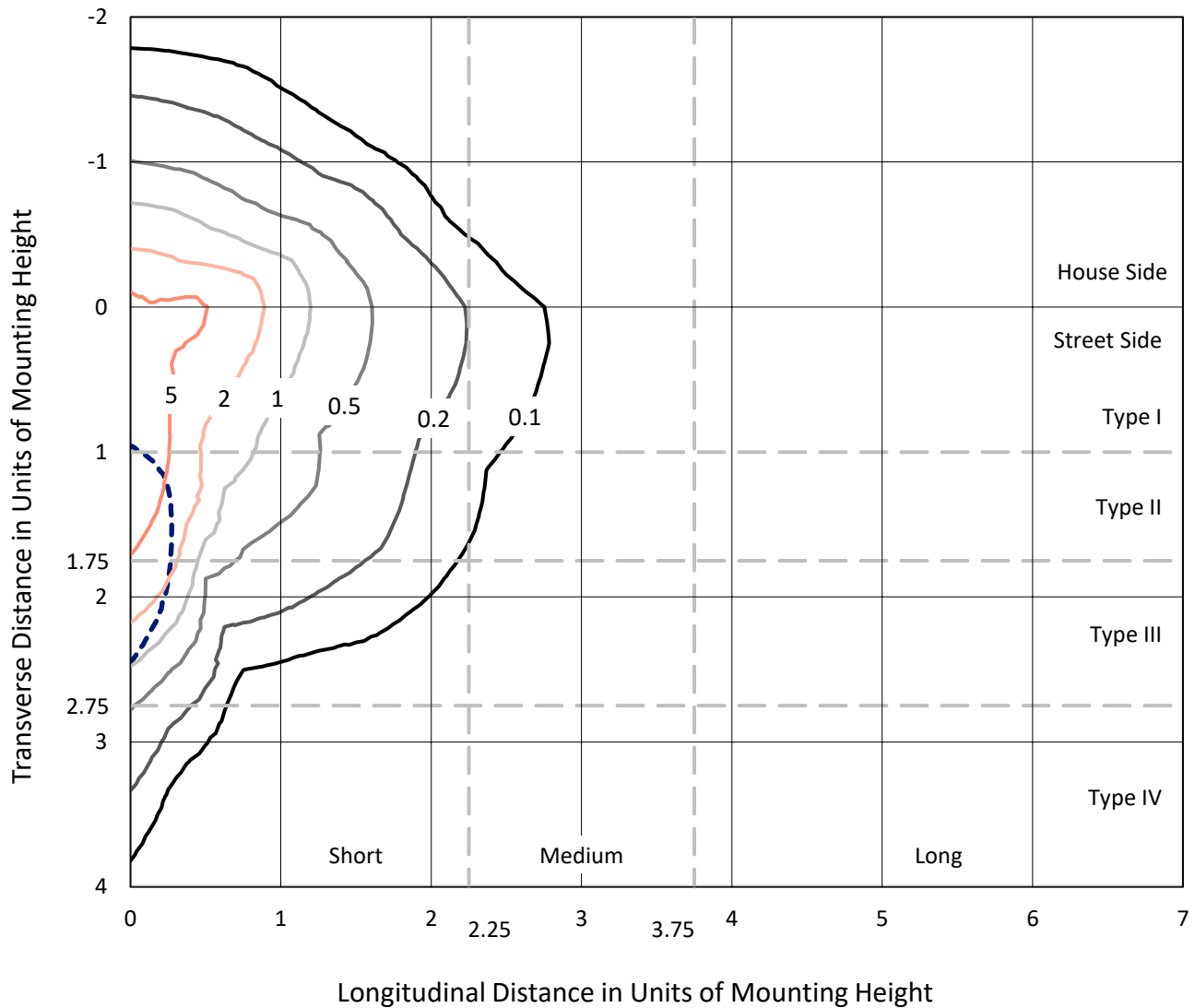


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Iso-Footcandle Lines of Horizontal Illumination

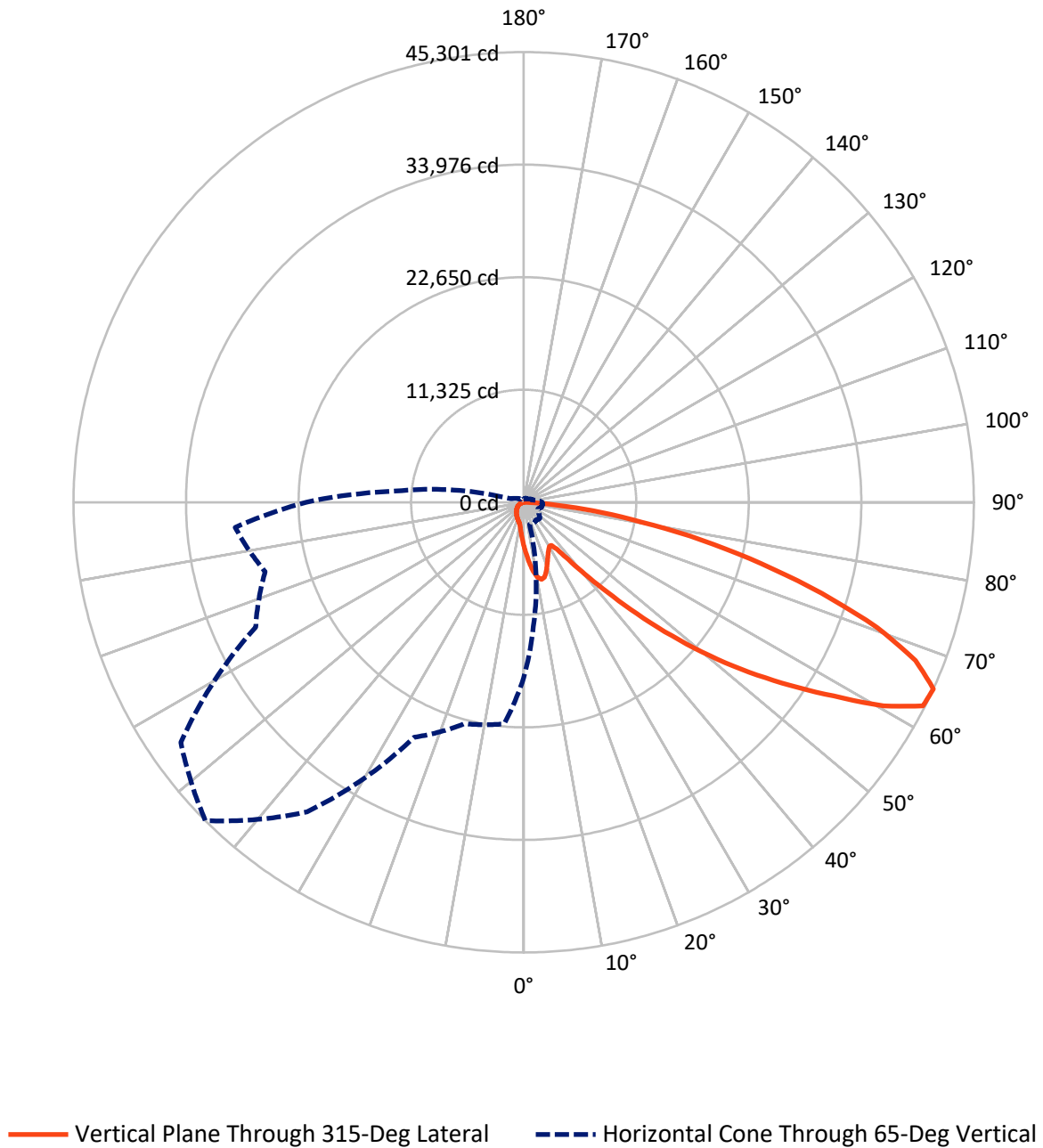
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	4514.0	0.0	4514.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	27719.0	0.0	27719.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	32233.0	0.0	32233.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.4	1.4
10°-20°	1317.3	4.1
20°-30°	1940.6	6.0
30°-40°	2493.1	7.7
40°-50°	4032.1	12.5
50°-60°	7070.7	21.9
60°-70°	8847.4	27.4
70°-80°	5170.0	16.0
80°-90°	922.4	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°	32233.0	100.0
0°-180°	32233.0	100.0

Coefficient of Utilization



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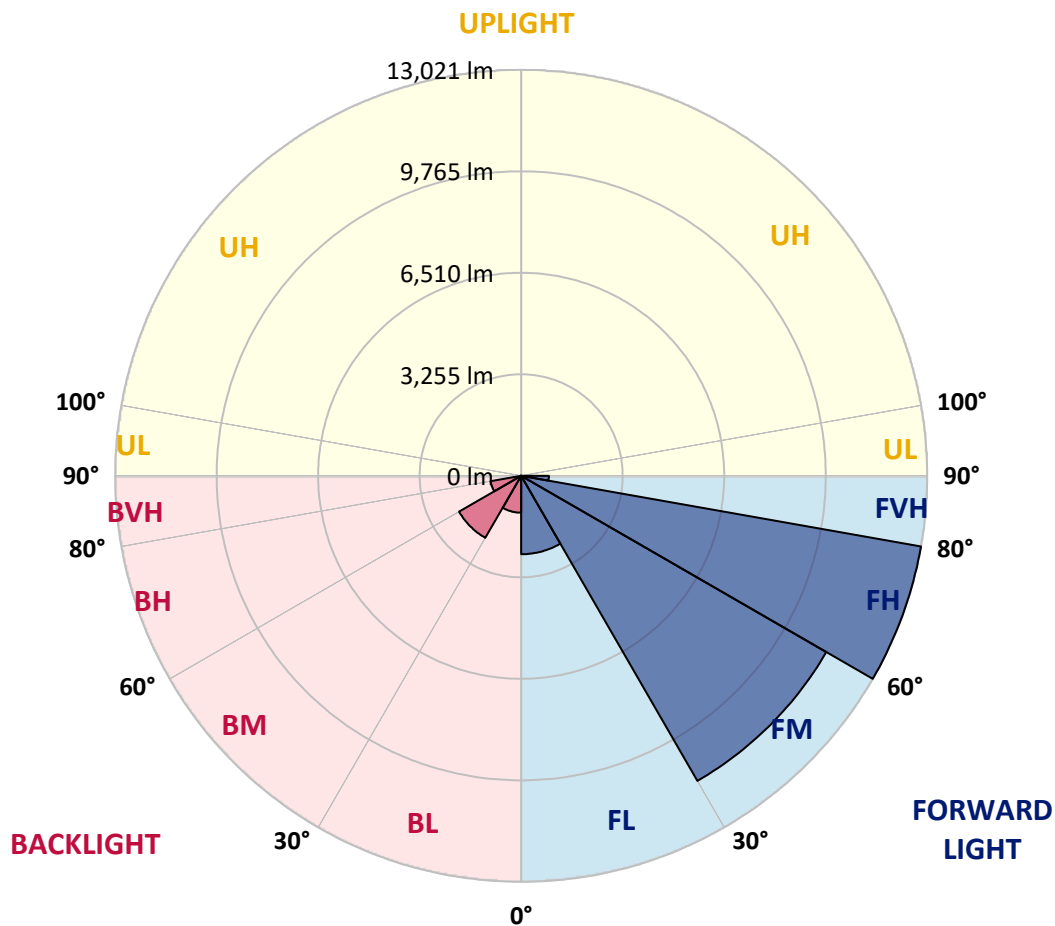
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2514.1	7.8			
FM	(30°-60°)	11297.3	35.0			
FH	(60°-80°)	13020.7	40.4			G5
FVH	(80°-90°)	887.0	2.8			G5
BL	(0°-30°)	1183.2	3.7	B3/2500		
BM	(30°-60°)	2298.6	7.1	B2/2500		
BH	(60°-80°)	996.7	3.1	B2/1000		G2/1000
BVH	(80°-90°)	35.4	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°	90°
0°	4463.2	4463.2	4463.2	4463.2	4463.2	4463.2	4463.2	4463.2	4463.2	4463.2	4463.2
2.5°	5042.8	4956.2	4905.1	4778.6	4652.0	4549.8	4412.2	4321.1	4212.3	4108.0	4014.7
5°	5620.1	5480.2	5311.5	5080.5	4869.6	4654.2	4445.5	4239.0	4021.4	3821.5	3699.4
7.5°	6108.6	5906.6	5609.0	5302.6	5033.9	4774.1	4529.9	4256.7	3992.5	3679.4	3512.9
10°	6481.7	6224.1	5833.3	5431.4	5122.7	4860.7	4623.1	4392.2	4125.7	3748.2	3539.5
12.5°	6708.2	6432.8	5968.7	5498.0	5144.9	4851.8	4667.5	4565.4	4461.0	4085.8	3841.5
15°	6874.7	6577.2	6064.2	5544.6	5093.9	4734.1	4598.7	4700.8	4820.7	4580.9	4298.9
17.5°	7047.9	6734.8	6188.6	5564.6	4956.2	4505.4	4447.7	4711.9	4989.5	4978.4	4698.6
20°	7212.2	6901.4	6297.4	5551.3	4734.1	4227.9	4278.9	4616.5	4938.4	5073.9	4922.9
22.5°	7401.0	7072.3	6401.8	5500.2	4445.5	3968.1	4127.9	4465.5	4747.5	4907.3	4860.7
25°	7631.9	7287.7	6548.3	5424.7	4134.6	3752.7	3974.7	4290.0	4518.8	4629.8	4627.6
27.5°	7880.6	7545.3	6743.7	5384.8	3883.7	3599.5	3801.5	4081.3	4285.6	4363.3	4363.3
30°	8189.3	7845.1	6974.6	5340.3	3719.4	3510.6	3621.7	3839.3	4039.1	4116.8	4116.8
32.5°	8526.8	8178.2	7196.7	5233.8	3619.4	3444.0	3446.2	3583.9	3766.0	3859.3	3872.6
35°	8948.7	8577.9	7434.3	5000.6	3539.5	3366.3	3275.3	3341.9	3492.9	3603.9	3632.8
37.5°	9550.4	9101.9	7725.2	4667.5	3421.8	3246.4	3095.4	3110.9	3226.4	3348.5	3392.9
40°	10380.9	9805.8	8067.1	4321.1	3253.1	3077.6	2897.8	2891.1	2975.5	3095.4	3144.3
42.5°	11504.5	10736.2	8477.9	3990.3	3091.0	2873.3	2689.0	2677.9	2744.6	2848.9	2900.0
45°	12987.8	11926.4	8982.0	3706.0	2964.4	2673.5	2491.4	2487.0	2542.5	2633.5	2686.8
47.5°	14886.3	13580.7	9486.0	3512.9	2897.8	2515.8	2329.3	2338.2	2387.1	2469.2	2507.0
50°	17344.5	15736.8	9639.3	3415.2	2897.8	2431.5	2185.0	2229.4	2269.4	2331.5	2353.7
52.5°	20291.1	17806.3	9133.0	3326.3	2915.5	2442.6	2062.9	2158.3	2187.2	2240.5	2249.4
55°	23022.3	18821.1	7851.7	3204.2	2920.0	2511.4	1958.5	2100.6	2153.9	2173.9	2171.7
57.5°	24607.8	18472.5	6348.5	2997.7	2902.2	2558.0	1891.9	2029.6	2131.7	2145.0	2125.0
60°	24305.8	17249.0	4674.2	2840.0	2771.2	2540.3	1871.9	1920.7	2082.8	2102.8	2076.2
62.5°	21978.7	15197.2	3244.2	2717.9	2482.5	2462.6	1865.2	1749.8	1976.3	2025.1	1987.4
65°	17666.4	11964.1	2291.6	2340.4	2176.1	2293.8	1829.7	1572.1	1847.5	1914.1	1856.4
67.5°	12816.8	8096.0	1654.3	1896.3	1971.8	2020.7	1749.8	1443.3	1700.9	1789.7	1714.2
70°	8224.8	4372.2	1161.3	1252.4	1660.9	1716.5	1612.1	1327.9	1552.1	1654.3	1572.1
72.5°	5846.6	2582.5	834.9	877.1	1334.5	1430.0	1418.9	1199.1	1378.9	1503.3	1405.6
75°	4034.7	1423.4	564.0	626.2	968.1	1161.3	1094.7	1030.3	1168.0	1294.6	1199.1
77.5°	2529.2	637.3	337.5	435.2	635.1	912.6	750.5	797.2	910.4	1028.1	928.2
80°	1407.8	246.5	188.7	288.7	346.4	663.9	415.2	512.9	670.6	755.0	675.0
82.5°	306.4	31.1	84.4	124.3	135.5	386.4	219.8	297.5	421.9	415.2	359.7
85°	0.0	0.0	15.5	17.8	8.9	166.5	79.9	97.7	137.7	128.8	97.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0
90°	0.0	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	4463.2	4463.2	4463.2	4463.2	4463.2	4463.2	4463.2	4463.2	4463.2	4463.2	4463.2
2.5°	3996.9	3888.1	3808.2	3768.2	3734.9	3766.0	3783.8	3783.8	3859.3	3903.7	3921.4
5°	3621.7	3426.3	3277.5	3177.6	3117.6	3137.6	3159.8	3184.2	3279.7	3344.1	3386.3
7.5°	3361.9	3062.1	2835.6	2695.7	2622.4	2633.5	2649.1	2669.1	2762.3	2826.7	2882.2
10°	3313.0	2882.2	2562.5	2378.2	2289.4	2273.8	2264.9	2258.3	2313.8	2362.6	2407.0
12.5°	3512.9	2891.1	2444.8	2220.5	2111.7	2065.1	2011.8	1969.6	1978.5	2009.6	2065.1
15°	3870.4	3004.4	2407.0	2138.4	2002.9	1925.2	1863.0	1811.9	1800.8	1811.9	1820.8
17.5°	4278.9	3157.6	2402.6	2067.3	1898.5	1818.6	1767.5	1720.9	1705.4	1707.6	1718.7
20°	4549.8	3279.7	2389.3	1987.4	1798.6	1727.6	1683.2	1636.5	1621.0	1625.4	1627.6
22.5°	4576.5	3344.1	2369.3	1898.5	1698.7	1638.7	1594.3	1552.1	1549.9	1549.9	1563.2
25°	4432.2	3344.1	2327.1	1818.6	1603.2	1549.9	1510.0	1458.9	1467.8	1472.2	1490.0
27.5°	4207.9	3264.2	2247.2	1754.2	1521.1	1465.5	1425.6	1378.9	1390.0	1396.7	1416.7
30°	3985.8	3162.0	2151.7	1680.9	1443.3	1378.9	1350.1	1310.1	1314.5	1323.4	1345.6
32.5°	3779.3	3053.2	2038.4	1621.0	1365.6	1301.2	1279.0	1234.6	1241.3	1250.2	1274.6
35°	3575.0	2933.3	1905.2	1549.9	1294.6	1230.2	1212.4	1161.3	1165.8	1179.1	1205.7
37.5°	3355.2	2806.7	1796.4	1478.9	1225.7	1159.1	1141.3	1088.1	1092.5	1108.0	1139.1
40°	3124.3	2682.4	1689.8	1403.4	1152.4	1085.8	1070.3	1012.6	1017.0	1034.8	1068.1
42.5°	2891.1	2546.9	1607.7	1305.7	1077.0	1005.9	990.4	937.1	943.7	963.7	997.0
45°	2675.7	2384.8	1554.4	1196.9	1005.9	926.0	910.4	861.6	874.9	897.1	930.4
47.5°	2491.4	2218.3	1532.2	1105.8	930.4	843.8	830.5	790.5	812.7	837.1	863.8
50°	2333.8	2058.4	1503.3	1012.6	859.3	772.7	759.4	732.8	761.6	786.1	810.5
52.5°	2220.5	1876.3	1441.1	928.2	797.2	712.8	708.3	695.0	721.7	743.9	766.1
55°	2122.8	1687.6	1341.2	854.9	741.7	661.7	666.2	659.5	681.7	699.5	719.4
57.5°	2034.0	1523.3	1214.6	797.2	681.7	617.3	630.6	621.7	632.8	643.9	668.4
60°	1927.4	1356.7	1063.6	732.8	610.6	572.9	588.4	564.0	561.8	566.2	572.9
62.5°	1769.8	1132.5	906.0	652.8	548.5	524.0	530.7	484.1	448.5	448.5	455.2
65°	1549.9	910.4	759.4	564.0	477.4	457.4	453.0	386.4	337.5	333.1	353.1
67.5°	1294.6	748.3	630.6	475.2	397.5	384.1	388.6	339.7	290.9	286.4	308.7
70°	1054.7	619.5	508.5	379.7	306.4	319.8	339.7	290.9	244.3	237.6	257.6
72.5°	857.1	493.0	397.5	290.9	226.5	264.2	288.7	237.6	193.2	188.7	206.5
75°	661.7	361.9	284.2	197.6	164.3	204.3	226.5	173.2	137.7	131.0	146.6
77.5°	441.9	224.3	159.9	124.3	97.7	139.9	151.0	91.0	79.9	77.7	88.8
80°	268.7	104.4	68.8	60.0	33.3	51.1	60.0	37.7	42.2	44.4	53.3
82.5°	135.5	28.9	11.1	2.2	0.0	0.0	17.8	8.9	17.8	22.2	33.3
85°	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	11.1	20.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9
90°	0.0	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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4463.2	4463.2	4463.2	4463.2	4463.2	4463.2	4463.2	4463.2	4463.2	4463.2	4463.2
2.5°	4045.8	4139.0	4227.9	4370.0	4516.5	4660.9	4807.4	4949.5	5000.6	5038.4	5122.7
5°	3579.5	3754.9	3959.2	4241.2	4543.2	4854.1	5169.4	5458.0	5589.0	5677.9	5877.7
7.5°	3097.6	3326.3	3619.4	4043.6	4516.5	5011.7	5506.9	5962.1	6173.0	6344.0	6648.2
10°	2620.2	2868.9	3239.7	3723.8	4363.3	5073.9	5757.8	6384.0	6657.1	6872.5	7285.5
12.5°	2200.5	2433.7	2822.3	3357.4	4123.5	5025.0	5902.1	6654.9	6976.9	7218.9	7671.9
15°	1905.2	2069.5	2413.7	2991.0	3839.3	4867.4	5911.0	6783.7	7136.7	7389.9	7782.9
17.5°	1740.9	1796.4	2020.7	2618.0	3524.0	4660.9	5828.9	6828.1	7205.6	7441.0	7714.1
20°	1652.1	1660.9	1723.1	2133.9	3119.8	4467.7	5751.1	6872.5	7270.0	7467.6	7549.8
22.5°	1581.0	1581.0	1596.6	1745.3	2598.0	4236.7	5726.7	6950.2	7358.8	7480.9	7312.2
25°	1516.6	1516.6	1521.1	1561.0	2058.4	3883.7	5711.2	7070.1	7480.9	7514.2	7050.1
27.5°	1450.0	1452.2	1452.2	1474.4	1658.7	3404.1	5644.6	7225.6	7627.5	7558.6	6799.2
30°	1383.4	1387.8	1387.8	1403.4	1467.8	2842.3	5513.5	7412.1	7818.4	7616.4	6550.5
32.5°	1316.8	1321.2	1321.2	1334.5	1381.2	2269.4	5349.2	7583.1	8011.6	7640.8	6319.6
35°	1247.9	1254.6	1250.2	1267.9	1316.8	1805.3	5140.5	7754.0	8220.4	7718.5	6206.3
37.5°	1179.1	1183.5	1181.3	1199.1	1254.6	1558.8	4898.5	7882.8	8504.6	7891.7	6341.8
40°	1110.3	1108.0	1108.0	1128.0	1188.0	1487.7	4594.2	8087.1	8913.2	8195.9	6932.5
42.5°	1039.2	1039.2	1034.8	1057.0	1130.2	1434.5	4303.4	8453.5	9508.3	8680.0	7980.5
45°	974.8	972.6	963.7	983.7	1074.7	1341.2	4201.2	9137.4	10387.6	9463.8	9248.5
47.5°	912.6	910.4	888.2	906.0	1008.1	1256.8	4583.1	10256.6	11606.6	10616.3	10436.4
50°	857.1	859.3	817.2	832.7	941.5	1192.4	5411.4	11708.8	13225.4	12168.4	11562.2
52.5°	806.0	806.0	750.5	759.4	859.3	1134.7	6199.7	13283.1	15361.5	14333.4	12874.6
55°	755.0	750.5	688.4	692.8	777.2	1052.5	6317.4	14819.7	18274.9	17590.9	14668.7
57.5°	697.2	688.4	630.6	630.6	701.7	992.6	5475.8	16001.0	21889.9	22378.4	17255.6
60°	626.2	619.5	581.8	570.7	641.7	1045.9	3863.7	16138.7	24221.4	28744.6	22209.6
62.5°	535.1	544.0	524.0	508.5	584.0	1085.8	2289.4	15030.7	23657.4	30769.7	28142.8
65°	421.9	457.4	453.0	441.9	641.7	914.9	1352.3	12903.4	21927.6	29135.4	26932.7
67.5°	359.7	384.1	377.5	377.5	672.8	695.0	850.5	10081.1	19547.2	27196.9	24057.1
70°	306.4	330.9	306.4	306.4	508.5	421.9	588.4	7039.0	16978.1	25051.9	22169.6
72.5°	253.1	277.6	250.9	233.2	406.4	315.3	430.8	4398.8	14539.9	22818.0	20877.3
75°	193.2	222.1	202.1	179.9	268.7	235.4	326.4	2555.8	12046.3	19522.8	19036.5
77.5°	122.1	159.9	151.0	126.6	197.6	171.0	235.4	1521.1	9295.1	15255.0	16374.1
80°	75.5	82.2	84.4	79.9	113.2	115.5	159.9	866.0	6361.8	10631.8	12792.4
82.5°	48.9	48.9	37.7	42.2	55.5	66.6	91.0	326.4	3739.4	6472.8	8904.3
85°	35.5	31.1	20.0	20.0	26.6	33.3	35.5	99.9	1516.6	2555.8	3481.8
87.5°	17.8	15.5	6.7	8.9	13.3	11.1	8.9	4.4	381.9	817.2	572.9
90°	0.0	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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4463.2	4463.2	4463.2	4463.2	4463.2	4463.2	4463.2	4463.2
2.5°	5167.1	5236.0	5240.4	5240.4	5180.5	5178.2	5056.1	5042.8
5°	6084.2	6128.6	6139.7	6117.5	5997.6	5908.8	5671.2	5620.1
7.5°	6923.6	7012.4	7012.4	6959.1	6763.7	6581.6	6237.4	6108.6
10°	7594.2	7696.3	7674.1	7565.3	7318.8	7067.9	6650.4	6481.7
12.5°	7920.6	8024.9	7967.2	7842.9	7603.1	7338.8	6899.1	6708.2
15°	7913.9	7885.1	7825.1	7809.6	7694.1	7494.2	7083.4	6874.7
17.5°	7631.9	7387.7	7341.0	7496.5	7643.0	7594.2	7243.3	7047.9
20°	7185.6	6759.3	6717.1	7014.6	7432.1	7645.2	7392.1	7212.2
22.5°	6714.8	6255.2	6157.5	6486.1	7114.5	7660.8	7580.8	7401.0
25°	6268.5	5806.7	5708.9	6015.4	6761.5	7634.1	7785.1	7631.9
27.5°	5895.5	5449.1	5358.1	5664.5	6421.7	7558.6	7989.4	7880.6
30°	5606.8	5193.8	5127.2	5422.5	6128.6	7465.4	8249.2	8189.3
32.5°	5438.0	5136.1	5160.5	5402.5	5971.0	7363.2	8497.9	8526.8
35°	5604.6	5617.9	5831.1	5931.0	6117.5	7347.7	8835.4	8948.7
37.5°	6432.8	6894.7	7336.6	7254.4	6834.8	7527.6	9339.5	9550.4
40°	7842.9	8791.0	9508.3	9195.2	8138.2	8078.2	10065.6	10380.9
42.5°	9566.0	11173.6	12355.0	11515.6	9819.1	9041.9	11102.6	11504.5
45°	11384.6	14111.4	15972.2	14226.9	11611.1	10392.0	12672.5	12987.8
47.5°	13300.9	17682.0	20089.0	17233.4	13272.0	11928.6	14813.1	14886.3
50°	15397.1	21596.7	24285.8	20237.8	14875.2	13689.5	17428.8	17344.5
52.5°	17393.3	25622.5	28393.8	23255.5	16283.1	15874.5	20464.3	20291.1
55°	19298.5	29646.1	32526.1	26155.5	17610.9	18761.1	24070.4	23022.3
57.5°	21507.9	33263.3	36785.1	29068.8	19467.3	22509.4	28102.9	24607.8
60°	24774.3	37373.5	41601.4	33061.3	22997.9	26448.6	29548.4	24305.8
62.5°	28944.4	41152.8	45103.1	36973.8	26544.1	27190.2	27418.9	21978.7
65°	29754.9	42109.9	45300.8	38019.7	26086.6	23064.5	22385.0	17666.4
67.5°	27605.5	40380.1	42538.4	36072.3	23075.6	17824.1	16798.2	12816.8
70°	25194.0	37082.6	37724.4	32761.5	20295.5	13109.9	11344.6	8224.8
72.5°	22722.6	32683.8	31355.9	28451.5	17837.4	9546.0	8182.6	5846.6
75°	19787.0	26899.3	24698.8	23639.6	14768.7	7492.0	5919.9	4034.7
77.5°	15845.6	18934.3	18345.9	18323.7	11098.1	5473.6	3950.3	2529.2
80°	11178.1	12288.3	11988.6	13800.5	7445.4	3970.3	2378.2	1407.8
82.5°	5411.4	6794.8	6974.6	8218.1	3621.7	2336.0	548.5	306.4
85°	2118.4	3277.5	2764.5	3119.8	1017.0	650.6	13.3	0.0
87.5°	237.6	379.7	348.6	275.3	124.3	26.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)