

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: P956076

Luminaire Tested: **GALN-SB8D-830-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956076
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-SB8D-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 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: 56428 lumens
Efficiency: N/A
Efficacy: 96.5 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

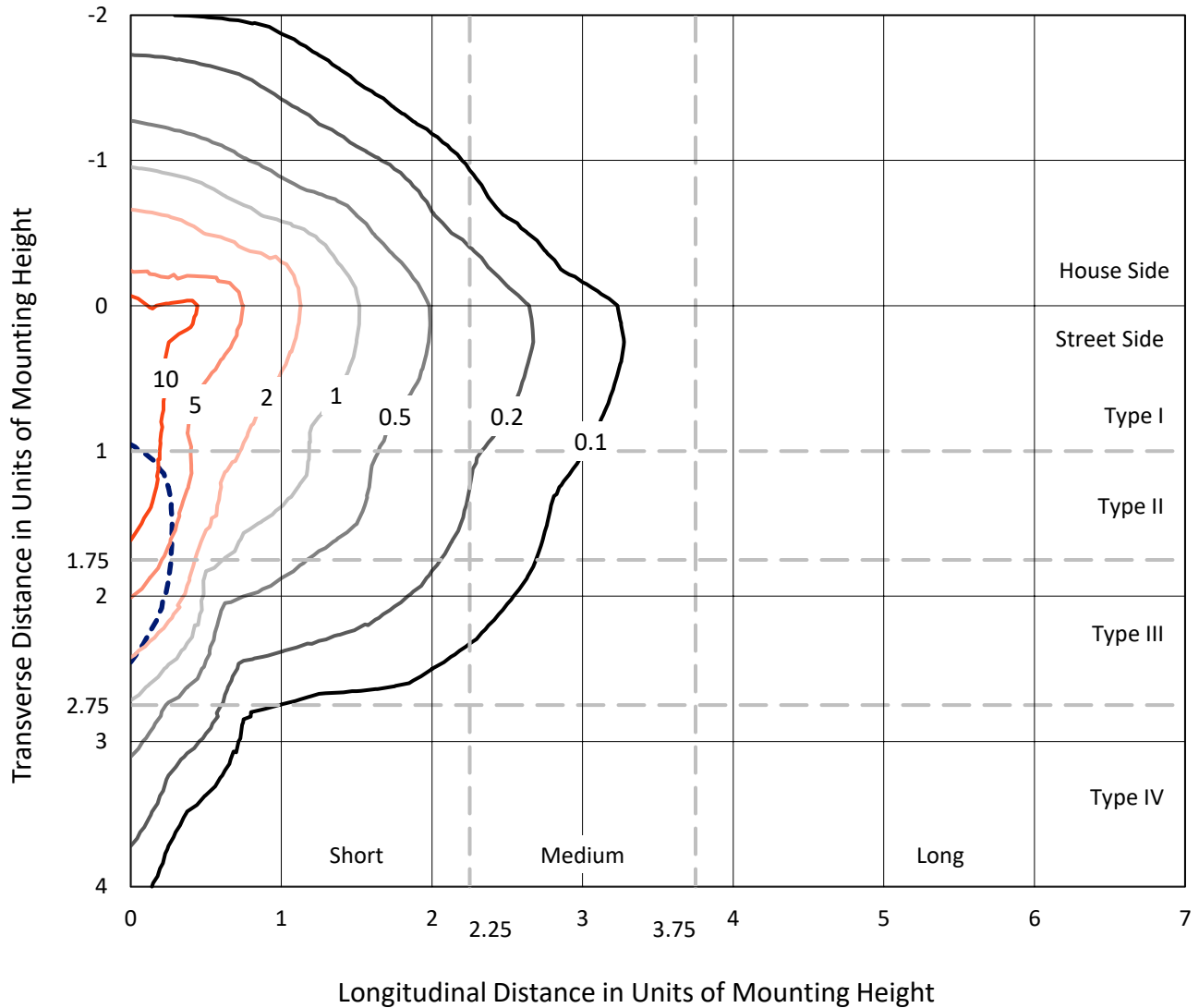
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

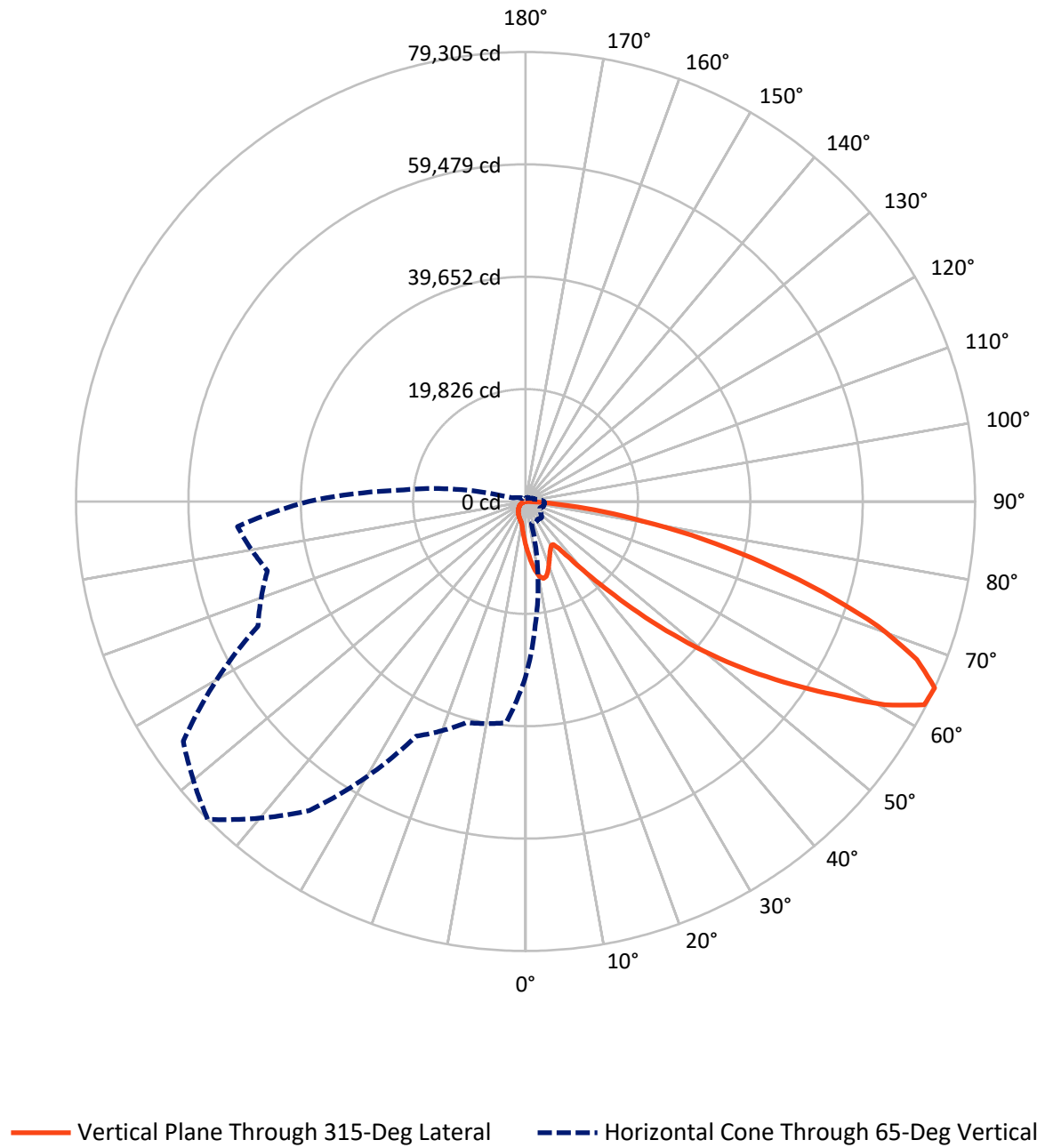
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 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	7902.3	0.0	7902.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	48525.7	0.0	48525.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	56428.0	0.0	56428.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.3	1.4
10°-20°	2306.0	4.1
20°-30°	3397.2	6.0
30°-40°	4364.5	7.7
40°-50°	7058.7	12.5
50°-60°	12378.2	21.9
60°-70°	15488.5	27.4
70°-80°	9050.7	16.0
80°-90°	1614.8	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°	56428.0	100.0
0°-180°	56428.0	100.0

Coefficient of Utilization



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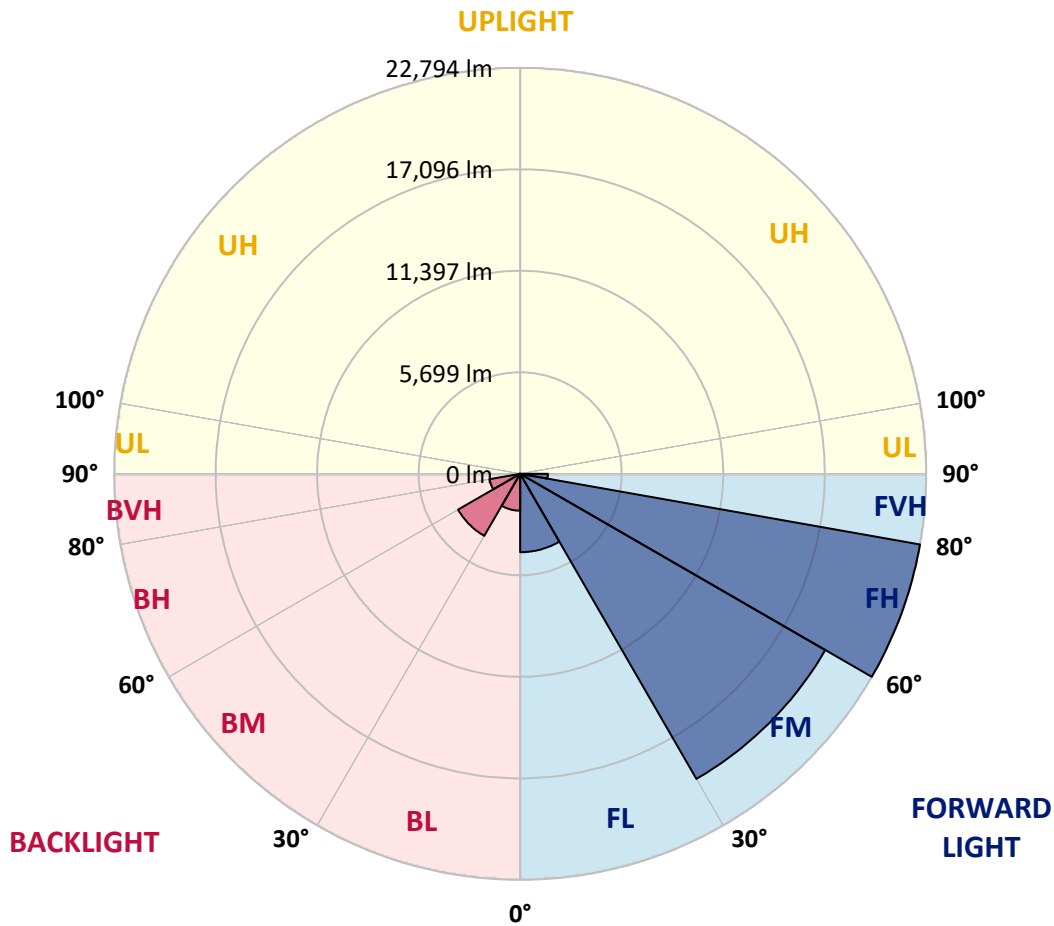
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4401.2	7.8			
FM (30°-60°)	19777.4	35.0			
FH (60°-80°)	22794.3	40.4			G5
FVH (80°-90°)	1552.8	2.8			G5
BL (0°-30°)	2071.3	3.7	B3/2500		
BM (30°-60°)	4024.1	7.1	B3/5000		
BH (60°-80°)	1744.9	3.1	B3/2500		G3/2500
BVH (80°-90°)	62.0	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°	7813.5	7813.5	7813.5	7813.5	7813.5	7813.5	7813.5	7813.5	7813.5	7813.5
2.5°	8828.1	8676.5	8587.0	8365.5	8143.9	7965.1	7724.1	7564.7	7374.2	7191.5
5°	9838.8	9593.9	9298.4	8894.1	8524.8	8147.8	7782.4	7420.9	7039.9	6690.0
7.5°	10694.0	10340.2	9819.3	9282.9	8812.5	8357.7	7930.1	7452.0	6989.4	6441.3
10°	11347.0	10896.1	10211.9	9508.3	8968.0	8509.3	8093.4	7689.1	7222.6	6561.8
12.5°	11743.5	11261.5	10449.1	9625.0	9006.9	8493.7	8171.1	7992.3	7809.6	7152.6
15°	12035.1	11514.2	10616.2	9706.6	8917.5	8287.7	8050.6	8229.4	8439.3	8019.5
17.5°	12338.3	11790.2	10833.9	9741.6	8676.5	7887.3	7786.3	8248.9	8734.8	8715.3
20°	12625.9	12081.7	11024.4	9718.2	8287.7	7401.4	7490.8	8081.7	8645.4	8882.5
22.5°	12956.4	12381.0	11207.1	9628.8	7782.4	6946.6	7226.5	7817.4	8311.0	8590.9
25°	13360.6	12758.1	11463.6	9496.7	7238.2	6569.5	6958.3	7510.3	7910.7	8105.0
27.5°	13796.0	13209.0	11805.7	9426.7	6798.9	6301.3	6655.1	7144.9	7502.5	7638.5
30°	14336.4	13733.8	12210.0	9349.0	6511.2	6145.8	6340.2	6721.1	7071.0	7207.1
32.5°	14927.2	14316.9	12598.7	9162.4	6336.3	6029.2	6033.1	6274.1	6592.9	6756.1
35°	15665.8	15016.6	13014.7	8754.2	6196.4	5893.1	5733.8	5850.4	6114.7	6309.1
37.5°	16719.3	15934.0	13523.9	8171.1	5990.3	5683.2	5418.9	5446.1	5648.2	5862.0
40°	18173.1	17166.3	14122.6	7564.7	5694.9	5387.8	5072.9	5061.3	5209.0	5418.9
42.5°	20140.1	18795.1	14841.7	6985.5	5411.1	5030.2	4707.5	4688.1	4804.7	4987.4
45°	22736.8	20878.7	15724.1	6487.9	5189.5	4680.3	4361.6	4353.8	4451.0	4610.3
47.5°	26060.5	23774.7	16606.5	6149.7	5072.9	4404.3	4077.8	4093.3	4178.8	4322.7
50°	30363.7	27549.3	16874.8	5978.7	5072.9	4256.6	3825.1	3902.8	3972.8	4081.7
52.5°	35522.1	31172.3	15988.5	5823.2	5104.0	4276.0	3611.3	3778.5	3829.0	3922.3
55°	40303.5	32948.8	13745.5	5609.4	5111.8	4396.5	3428.6	3677.4	3770.7	3805.7
57.5°	43079.1	32338.4	11113.8	5247.9	5080.7	4478.2	3312.0	3553.0	3731.8	3755.1
60°	42550.4	30196.5	8182.8	4971.9	4851.4	4447.1	3277.0	3362.5	3646.3	3681.3
62.5°	38476.5	26604.7	5679.3	4758.1	4346.0	4311.0	3265.3	3063.2	3459.7	3545.2
65°	30927.4	20944.8	4011.7	4097.2	3809.6	4015.6	3203.1	2752.2	3234.2	3350.9
67.5°	22437.5	14173.1	2896.0	3319.8	3451.9	3537.4	3063.2	2526.7	2977.7	3133.2
70°	14398.6	7654.1	2033.1	2192.4	2907.7	3004.9	2822.2	2324.6	2717.2	2896.0
72.5°	10235.3	4520.9	1461.6	1535.5	2336.3	2503.4	2484.0	2099.1	2414.0	2631.7
75°	7063.2	2491.8	987.4	1096.2	1694.9	2033.1	1916.4	1803.7	2044.7	2266.3
77.5°	4427.6	1115.7	590.9	761.9	1111.8	1597.7	1313.9	1395.5	1593.8	1799.8
80°	2464.5	431.5	330.4	505.3	606.4	1162.3	726.9	898.0	1174.0	1321.7
82.5°	536.4	54.4	147.7	217.7	237.1	676.4	384.8	520.9	738.6	726.9
85°	0.0	0.0	27.2	31.1	15.5	291.5	139.9	171.0	241.0	225.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8
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°
7813.5	0°	7813.5	7813.5	7813.5	7813.5	7813.5	7813.5	7813.5	7813.5	7813.5	7813.5
7028.2	2.5°	6997.1	6806.7	6666.7	6596.7	6538.4	6592.9	6624.0	6624.0	6756.1	6833.9
6476.2	5°	6340.2	5998.1	5737.7	5562.7	5457.8	5492.8	5531.6	5574.4	5741.5	5854.3
6149.7	7.5°	5885.4	5360.6	4964.1	4719.2	4590.9	4610.3	4637.5	4672.5	4835.8	4948.5
6196.4	10°	5799.9	5045.7	4485.9	4163.3	4007.8	3980.6	3965.0	3953.4	4050.6	4136.1
6725.0	12.5°	6149.7	5061.3	4279.9	3887.3	3696.8	3615.2	3521.9	3448.0	3463.6	3518.0
7525.8	15°	6775.6	5259.5	4213.8	3743.5	3506.3	3370.3	3261.4	3172.0	3152.6	3172.0
8225.5	17.5°	7490.8	5527.7	4206.1	3619.1	3323.6	3183.7	3094.3	3012.7	2985.4	2989.3
8618.1	20°	7965.1	5741.5	4182.7	3479.1	3148.7	3024.3	2946.6	2864.9	2837.7	2845.5
8509.3	22.5°	8011.7	5854.3	4147.7	3323.6	2973.8	2868.8	2791.1	2717.2	2713.3	2713.3
8101.1	25°	7759.1	5854.3	4073.9	3183.7	2806.6	2713.3	2643.4	2554.0	2569.5	2577.3
7638.5	27.5°	7366.4	5714.3	3933.9	3071.0	2662.8	2565.6	2495.6	2414.0	2433.4	2445.1
7207.1	30°	6977.7	5535.5	3766.8	2942.7	2526.7	2414.0	2363.5	2293.5	2301.3	2316.8
6779.5	32.5°	6616.2	5345.0	3568.5	2837.7	2390.7	2278.0	2239.1	2161.3	2173.0	2188.5
6359.6	35°	6258.6	5135.1	3335.3	2713.3	2266.3	2153.6	2122.5	2033.1	2040.8	2064.2
5939.8	37.5°	5873.7	4913.5	3144.8	2588.9	2145.8	2029.2	1998.1	1904.8	1912.6	1939.8
5504.4	40°	5469.4	4695.9	2958.2	2456.8	2017.5	1900.9	1873.7	1772.6	1780.4	1811.5
5076.8	42.5°	5061.3	4458.7	2814.4	2285.7	1885.3	1760.9	1733.7	1640.4	1652.1	1687.1
4703.6	45°	4684.2	4175.0	2721.1	2095.3	1760.9	1621.0	1593.8	1508.3	1531.6	1570.5
4388.8	47.5°	4361.6	3883.4	2682.2	1935.9	1628.8	1477.2	1453.9	1383.9	1422.8	1465.5
4120.5	50°	4085.6	3603.5	2631.7	1772.6	1504.4	1352.8	1329.5	1282.8	1333.3	1376.1
3937.8	52.5°	3887.3	3284.8	2522.9	1624.9	1395.5	1247.8	1240.0	1216.7	1263.4	1302.2
3801.8	55°	3716.3	2954.3	2347.9	1496.6	1298.4	1158.4	1166.2	1154.5	1193.4	1224.5
3720.1	57.5°	3560.8	2666.7	2126.4	1395.5	1193.4	1080.7	1104.0	1088.4	1107.9	1127.3
3634.6	60°	3374.2	2375.1	1862.0	1282.8	1069.0	1002.9	1030.1	987.4	983.5	991.3
3479.1	62.5°	3098.2	1982.5	1586.0	1142.9	960.2	917.4	929.1	847.4	785.2	785.2
3249.8	65°	2713.3	1593.8	1329.5	987.4	835.8	800.8	793.0	676.4	590.9	583.1
3001.0	67.5°	2266.3	1310.0	1104.0	831.9	695.8	672.5	680.3	594.8	509.2	501.5
2752.2	70°	1846.5	1084.6	890.2	664.7	536.4	559.8	594.8	509.2	427.6	415.9
2460.7	72.5°	1500.5	863.0	695.8	509.2	396.5	462.6	505.3	415.9	338.2	330.4
2099.1	75°	1158.4	633.6	497.6	346.0	287.7	357.6	396.5	303.2	241.0	229.4
1624.9	77.5°	773.6	392.6	279.9	217.7	171.0	244.9	264.3	159.4	139.9	136.1
1181.7	80°	470.4	182.7	120.5	105.0	58.3	89.4	105.0	66.1	73.9	77.7
629.7	82.5°	237.1	50.5	19.4	3.9	0.0	0.0	31.1	15.5	31.1	38.9
171.0	85°	19.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	19.4
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°
7813.5	0°	7813.5	7813.5	7813.5	7813.5	7813.5	7813.5	7813.5	7813.5	7813.5	7813.5
6865.0	2.5°	7082.7	7245.9	7401.4	7650.2	7906.8	8159.4	8416.0	8664.8	8754.2	8820.3
5928.1	5°	6266.3	6573.4	6931.1	7424.7	7953.4	8497.6	9049.6	9555.0	9784.3	9939.8
5045.7	7.5°	5422.8	5823.2	6336.3	7078.8	7906.8	8773.6	9640.5	10437.4	10806.7	11106.0
4213.8	10°	4587.0	5022.4	5671.6	6519.0	7638.5	8882.5	10079.8	11176.0	11654.1	12031.2
3615.2	12.5°	3852.3	4260.5	4940.8	5877.6	7218.7	8797.0	10332.4	11650.2	12213.9	12637.6
3187.6	15°	3335.3	3623.0	4225.5	5236.2	6721.1	8521.0	10348.0	11875.7	12493.8	12936.9
3008.8	17.5°	3047.6	3144.8	3537.4	4583.1	6169.1	8159.4	10204.2	11953.4	12614.3	13026.3
2849.4	20°	2892.2	2907.7	3016.5	3735.7	5461.7	7821.2	10068.1	12031.2	12727.0	13073.0
2736.7	22.5°	2767.8	2767.8	2795.0	3055.4	4548.1	7417.0	10025.3	12167.2	12882.5	13096.3
2608.4	25°	2655.0	2655.0	2662.8	2732.8	3603.5	6798.9	9998.1	12377.2	13096.3	13154.6
2480.1	27.5°	2538.4	2542.3	2542.3	2581.2	2903.8	5959.2	9881.5	12649.3	13352.9	13232.4
2355.7	30°	2421.8	2429.6	2429.6	2456.8	2569.5	4975.7	9652.2	12975.8	13687.2	13333.4
2231.3	32.5°	2305.2	2312.9	2312.9	2336.3	2417.9	3972.8	9364.5	13275.1	14025.4	13376.2
2110.8	35°	2184.7	2196.3	2188.5	2219.6	2305.2	3160.4	8999.1	13574.5	14390.8	13512.3
1994.2	37.5°	2064.2	2071.9	2068.0	2099.1	2196.3	2728.9	8575.4	13799.9	14888.4	13815.5
1869.8	40°	1943.6	1939.8	1939.8	1974.7	2079.7	2604.5	8042.8	14157.5	15603.6	14348.0
1745.4	42.5°	1819.3	1819.3	1811.5	1850.4	1978.6	2511.2	7533.6	14799.0	16645.4	15195.5
1628.8	45°	1706.5	1702.6	1687.1	1722.1	1881.5	2347.9	7354.8	15996.2	18184.8	16567.7
1512.2	47.5°	1597.7	1593.8	1554.9	1586.0	1764.8	2200.2	8023.4	17955.4	20318.9	18585.2
1418.9	50°	1500.5	1504.4	1430.5	1457.7	1648.2	2087.5	9473.3	20497.7	23152.8	21302.4
1341.1	52.5°	1411.1	1411.1	1313.9	1329.5	1504.4	1986.4	10853.3	23253.8	26892.3	25092.5
1259.5	55°	1321.7	1313.9	1205.1	1212.8	1360.6	1842.6	11059.4	25943.8	31992.5	30795.2
1170.1	57.5°	1220.6	1205.1	1104.0	1104.0	1228.4	1737.6	9586.1	28011.9	38321.0	39176.2
1002.9	60°	1096.2	1084.6	1018.5	999.0	1123.4	1830.9	6763.9	28252.9	42402.7	50321.1
796.9	62.5°	936.8	952.4	917.4	890.2	1022.4	1900.9	4007.8	26313.1	41415.3	53866.3
618.1	65°	738.6	800.8	793.0	773.6	1123.4	1601.6	2367.4	22589.1	38387.1	51005.3
540.3	67.5°	629.7	672.5	660.8	660.8	1177.9	1216.7	1488.8	17648.3	34219.9	47611.6
450.9	70°	536.4	579.2	536.4	536.4	890.2	738.6	1030.1	12322.7	29722.3	43856.5
361.5	72.5°	443.2	485.9	439.3	408.2	711.4	552.0	754.1	7700.7	25454.0	39945.9
256.6	75°	338.2	388.7	353.7	314.9	470.4	412.1	571.4	4474.3	21088.6	34177.1
155.5	77.5°	213.8	279.9	264.3	221.6	346.0	299.3	412.1	2662.8	16272.2	26705.7
93.3	80°	132.2	143.8	147.7	139.9	198.3	202.1	279.9	1516.0	11137.1	18612.4
58.3	82.5°	85.5	85.5	66.1	73.9	97.2	116.6	159.4	571.4	6546.2	11331.5
35.0	85°	62.2	54.4	35.0	35.0	46.6	58.3	62.2	174.9	2655.0	4474.3
15.5	87.5°	31.1	27.2	11.7	15.5	23.3	19.4	15.5	7.8	668.6	1430.5
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°
7813.5	0°	7813.5	7813.5	7813.5	7813.5	7813.5	7813.5	7813.5	7813.5
8968.0	2.5°	9045.7	9166.3	9174.0	9174.0	9069.1	9065.2	8851.4	8828.1
10289.7	5°	10651.2	10728.9	10748.4	10709.5	10499.6	10344.1	9928.2	9838.8
11638.6	7.5°	12120.6	12276.1	12276.1	12182.8	11840.7	11522.0	10919.4	10694.0
12754.2	10°	13294.6	13473.4	13434.5	13244.0	12812.5	12373.3	11642.5	11347.0
13430.6	12.5°	13866.0	14048.7	13947.6	13729.9	13310.1	12847.5	12077.8	11743.5
13625.0	15°	13854.3	13803.8	13698.8	13671.6	13469.5	13119.6	12400.5	12035.1
13504.5	17.5°	13360.6	12933.0	12851.4	13123.5	13380.1	13294.6	12680.4	12338.3
13216.8	20°	12579.3	11832.9	11759.1	12280.0	13010.8	13384.0	12940.8	12625.9
12800.9	22.5°	11755.2	10950.5	10779.5	11354.8	12454.9	13411.2	13271.2	12956.4
12342.2	25°	10973.8	10165.3	9994.2	10530.7	11836.8	13364.5	13628.9	13360.6
11902.9	27.5°	10320.8	9539.4	9380.1	9916.5	11242.1	13232.4	13986.5	13796.0
11467.5	30°	9815.4	9092.4	8975.8	9492.8	10728.9	13069.1	14441.3	14336.4
11063.3	32.5°	9520.0	8991.3	9034.1	9457.8	10452.9	12890.3	14876.7	14927.2
10865.0	35°	9811.5	9834.9	10208.0	10383.0	10709.5	12863.1	15467.6	15665.8
11102.1	37.5°	11261.5	12070.1	12843.6	12699.8	11965.1	13177.9	16350.0	16719.3
12136.1	40°	13729.9	15389.8	16645.4	16097.3	14247.0	14142.0	17621.1	18173.1
13971.0	42.5°	16746.5	19560.9	21628.9	20159.5	17189.6	15829.1	19436.5	20140.1
16190.6	45°	19930.2	24703.8	27961.3	24905.9	20326.7	18192.6	22184.8	22736.8
18270.3	47.5°	23284.9	30954.6	35168.4	30169.3	23234.4	20882.6	25932.2	26060.5
20241.2	50°	26954.5	37807.9	42515.4	35428.8	26041.0	23965.2	30511.4	30363.7
22538.6	52.5°	30449.2	44855.6	49706.9	40711.7	28505.6	27790.3	35825.4	35522.1
25679.5	55°	33784.5	51899.3	56941.2	45788.5	30830.2	32843.8	42138.3	40303.5
30208.2	57.5°	37652.4	58231.7	64397.0	50888.6	34080.0	39405.6	49197.7	43079.1
38880.8	60°	43370.6	65427.1	72828.6	57878.0	40260.8	46301.6	51728.3	42550.4
49267.6	62.5°	50671.0	72043.3	78958.8	64727.4	46468.8	47600.0	48000.4	38476.5
47149.1	65°	52089.8	73718.8	79304.8	66558.3	45668.0	40377.4	39187.9	30927.4
42115.0	67.5°	48326.9	70690.5	74469.0	63149.2	40396.8	31203.4	29407.4	22437.5
38810.8	70°	44105.3	64917.9	66041.3	57353.2	35529.9	22950.6	19860.2	14398.6
36548.4	72.5°	39778.7	57217.2	54892.6	49808.0	31226.7	16711.5	14324.7	10235.3
33325.8	75°	34639.7	47090.7	43238.4	41384.2	25854.4	13115.7	10363.5	7063.2
28664.9	77.5°	27739.8	33147.0	32116.9	32078.0	19428.7	9582.2	6915.5	4427.6
22394.7	80°	19568.7	21512.3	20987.5	24159.6	13034.1	6950.5	4163.3	2464.5
15588.1	82.5°	9473.3	11895.1	12210.0	14386.9	6340.2	4089.4	960.2	536.4
6095.3	85°	3708.5	5737.7	4839.7	5461.7	1780.4	1139.0	23.3	0.0
1002.9	87.5°	415.9	664.7	610.3	482.0	217.7	46.6	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)