

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: P954144

Luminaire Tested: **GALN-SB7C-727-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954144
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-SB7C-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 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: 37702 lumens
Efficiency: N/A
Efficacy: 107.6 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

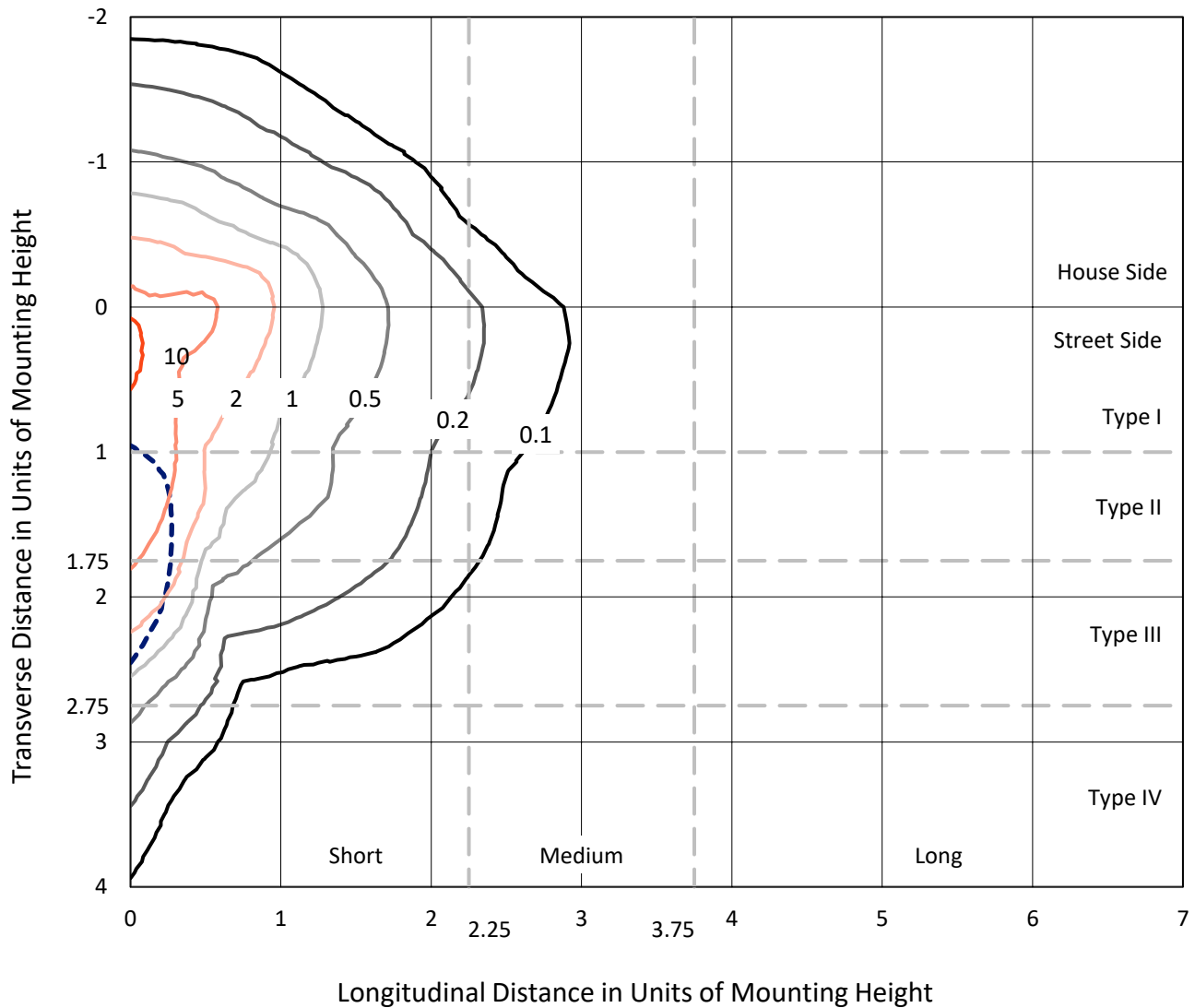
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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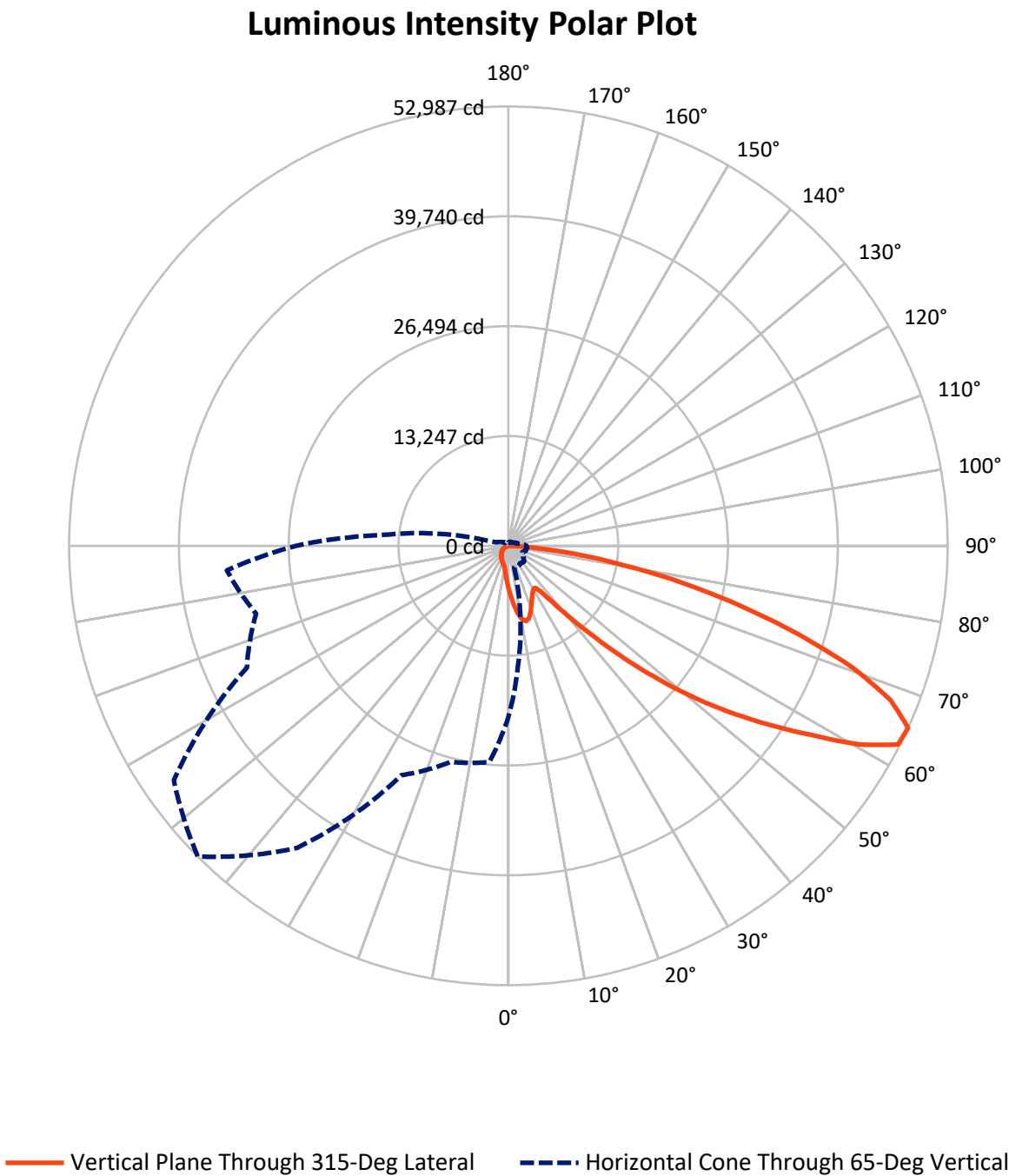
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5279.9	0.0	5279.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	32422.1	0.0	32422.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	37702.0	0.0	37702.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.0	1.4
10°-20°	1540.7	4.1
20°-30°	2269.8	6.0
30°-40°	2916.1	7.7
40°-50°	4716.3	12.5
50°-60°	8270.4	21.9
60°-70°	10348.5	27.4
70°-80°	6047.2	16.0
80°-90°	1078.9	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°	37702.0	100.0
0°-180°	37702.0	100.0

Coefficient of Utilization



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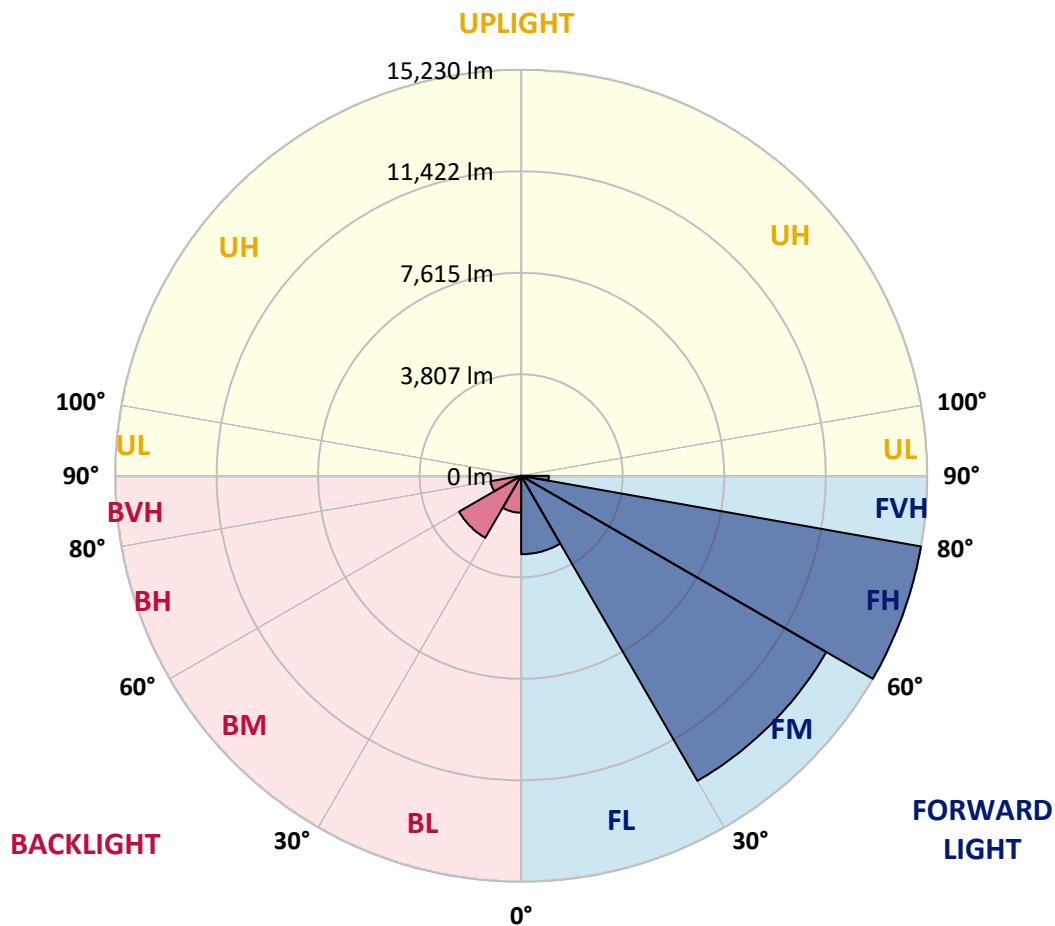
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2940.6	7.8			
FM	(30°-60°)	13214.1	35.0			
FH	(60°-80°)	15229.9	40.4			G5
FVH	(80°-90°)	1037.5	2.8			G5
BL	(0°-30°)	1384.0	3.7	B3/2500		
BM	(30°-60°)	2688.6	7.1	B3/5000		
BH	(60°-80°)	1165.8	3.1	B3/2500		G3/2500
BVH	(80°-90°)	41.5	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°	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5
2.5°	5898.4	5797.1	5737.4	5589.3	5441.3	5321.8	5160.8	5054.3	4927.0	4805.0	4695.9
5°	6573.7	6410.1	6212.7	5942.6	5695.8	5443.9	5199.7	4958.2	4703.7	4469.9	4327.1
7.5°	7145.1	6908.7	6560.7	6202.3	5888.0	5584.1	5298.4	4979.0	4669.9	4303.7	4108.9
10°	7581.4	7280.2	6823.0	6352.9	5991.9	5685.4	5407.5	5137.4	4825.7	4384.2	4140.1
12.5°	7846.4	7524.3	6981.5	6430.9	6017.9	5675.0	5459.5	5340.0	5217.9	4779.0	4493.3
15°	8041.2	7693.1	7093.2	6485.4	5958.1	5537.4	5379.0	5498.4	5638.7	5358.2	5028.3
17.5°	8243.7	7877.5	7238.6	6508.8	5797.1	5269.9	5202.3	5511.4	5836.1	5823.1	5495.8
20°	8435.9	8072.3	7365.9	6493.2	5537.4	4945.2	5004.9	5399.7	5776.3	5934.8	5758.2
22.5°	8656.7	8272.3	7487.9	6433.4	5199.7	4641.3	4828.3	5223.1	5553.0	5740.0	5685.4
25°	8926.8	8524.3	7659.4	6345.1	4836.1	4389.4	4649.1	5017.9	5285.5	5415.3	5412.7
27.5°	9217.7	8825.5	7887.9	6298.4	4542.6	4210.2	4446.5	4773.8	5012.7	5103.6	5103.6
30°	9578.7	9176.2	8158.0	6246.4	4350.4	4106.3	4236.2	4490.7	4724.4	4815.3	4815.3
32.5°	9973.5	9565.8	8417.8	6121.8	4233.6	4028.4	4031.0	4192.0	4405.0	4514.1	4529.6
35°	10467.0	10033.3	8695.7	5849.1	4140.1	3937.5	3831.0	3908.9	4085.5	4215.4	4249.1
37.5°	11170.9	10646.2	9035.9	5459.5	4002.4	3797.2	3620.6	3638.8	3773.8	3916.7	3968.6
40°	12142.3	11469.6	9435.9	5054.3	3805.0	3599.8	3389.4	3381.7	3480.3	3620.6	3677.7
42.5°	13456.5	12557.8	9916.4	4667.3	3615.4	3360.9	3145.3	3132.3	3210.2	3332.3	3392.0
45°	15191.5	13950.0	10506.0	4334.9	3467.4	3127.1	2914.1	2908.9	2973.9	3080.4	3142.7
47.5°	17412.1	15884.9	11095.6	4108.9	3389.4	2942.7	2724.5	2734.9	2792.1	2888.2	2932.3
50°	20287.3	18406.9	11274.8	3994.6	3389.4	2844.0	2555.7	2607.7	2654.4	2727.1	2753.1
52.5°	23733.9	20827.5	10682.6	3890.7	3410.2	2857.0	2412.9	2524.6	2558.3	2620.6	2631.0
55°	26928.5	22014.5	9184.0	3747.9	3415.4	2937.5	2290.8	2457.0	2519.4	2542.7	2540.1
57.5°	28783.0	21606.7	7425.6	3506.3	3394.6	2992.1	2212.9	2373.9	2493.4	2509.0	2485.6
60°	28429.8	20175.6	5467.3	3321.9	3241.4	2971.3	2189.5	2246.6	2436.2	2459.6	2428.5
62.5°	25707.8	17775.7	3794.6	3179.1	2903.8	2880.4	2181.7	2046.7	2311.6	2368.7	2324.6
65°	20663.9	13994.1	2680.4	2737.5	2545.3	2683.0	2140.2	1838.9	2160.9	2238.9	2171.3
67.5°	14991.5	9469.7	1935.0	2218.1	2306.4	2363.5	2046.7	1688.2	1989.5	2093.4	2005.1
70°	9620.3	5114.0	1358.4	1464.9	1942.8	2007.7	1885.6	1553.2	1815.5	1935.0	1838.9
72.5°	6838.6	3020.6	976.6	1025.9	1561.0	1672.6	1659.7	1402.5	1612.9	1758.4	1644.1
75°	4719.2	1664.9	659.7	732.4	1132.4	1358.4	1280.5	1205.1	1366.2	1514.2	1402.5
77.5°	2958.3	745.4	394.8	509.1	742.8	1067.5	877.9	932.4	1064.9	1202.5	1085.7
80°	1646.7	288.3	220.8	337.6	405.2	776.6	485.7	600.0	784.4	883.1	789.6
82.5°	358.4	36.4	98.7	145.4	158.4	451.9	257.1	348.0	493.5	485.7	420.8
85°	0.0	0.0	18.2	20.8	10.4	194.8	93.5	114.3	161.0	150.6	114.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	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°	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5
2.5°	4675.1	4547.8	4454.3	4407.6	4368.6	4405.0	4425.8	4425.8	4514.1	4566.0	4586.8
5°	4236.2	4007.6	3833.6	3716.7	3646.6	3669.9	3695.9	3724.5	3836.2	3911.5	3960.8
7.5°	3932.3	3581.6	3316.7	3153.1	3067.4	3080.4	3098.5	3121.9	3231.0	3306.3	3371.3
10°	3875.1	3371.3	2997.3	2781.7	2677.8	2659.6	2649.2	2641.4	2706.4	2763.5	2815.4
12.5°	4108.9	3381.7	2859.6	2597.3	2470.0	2415.5	2353.1	2303.8	2314.2	2350.5	2415.5
15°	4527.0	3514.1	2815.4	2501.2	2342.7	2251.8	2179.1	2119.4	2106.4	2119.4	2129.8
17.5°	5004.9	3693.3	2810.3	2418.1	2220.7	2127.2	2067.4	2012.9	1994.7	1997.3	2010.3
20°	5321.8	3836.2	2794.7	2324.6	2103.8	2020.7	1968.7	1914.2	1896.0	1901.2	1903.8
22.5°	5353.0	3911.5	2771.3	2220.7	1986.9	1916.8	1864.8	1815.5	1812.9	1812.9	1828.5
25°	5184.2	3911.5	2721.9	2127.2	1875.2	1812.9	1766.1	1706.4	1716.8	1722.0	1742.8
27.5°	4921.8	3818.0	2628.4	2051.8	1779.1	1714.2	1667.4	1612.9	1625.9	1633.7	1657.1
30°	4662.1	3698.5	2516.8	1966.1	1688.2	1612.9	1579.1	1532.4	1537.6	1548.0	1573.9
32.5°	4420.6	3571.3	2384.3	1896.0	1597.3	1522.0	1496.0	1444.1	1451.9	1462.3	1490.8
35°	4181.6	3431.0	2228.5	1812.9	1514.2	1438.9	1418.1	1358.4	1363.6	1379.2	1410.3
37.5°	3924.5	3283.0	2101.2	1729.8	1433.7	1355.8	1335.0	1272.7	1277.9	1296.0	1332.4
40°	3654.4	3137.5	1976.5	1641.5	1348.0	1270.1	1251.9	1184.4	1189.6	1210.3	1249.3
42.5°	3381.7	2979.1	1880.4	1527.2	1259.7	1176.6	1158.4	1096.0	1103.8	1127.2	1166.2
45°	3129.7	2789.5	1818.1	1399.9	1176.6	1083.1	1064.9	1007.7	1023.3	1049.3	1088.3
47.5°	2914.1	2594.7	1792.1	1293.4	1088.3	987.0	971.4	924.6	950.6	979.2	1010.3
50°	2729.7	2407.7	1758.4	1184.4	1005.1	903.9	888.3	857.1	890.9	919.4	948.0
52.5°	2597.3	2194.7	1685.6	1085.7	932.4	833.7	828.5	812.9	844.1	870.1	896.1
55°	2483.0	1973.9	1568.8	1000.0	867.5	774.0	779.2	771.4	797.4	818.1	841.5
57.5°	2379.1	1781.7	1420.7	932.4	797.4	722.0	737.6	727.2	740.2	753.2	781.8
60°	2254.4	1586.9	1244.1	857.1	714.3	670.1	688.3	659.7	657.1	662.3	670.1
62.5°	2070.0	1324.6	1059.7	763.6	641.5	613.0	620.7	566.2	524.6	524.6	532.4
65°	1812.9	1064.9	888.3	659.7	558.4	535.0	529.8	451.9	394.8	389.6	413.0
67.5°	1514.2	875.3	737.6	555.8	464.9	449.3	454.5	397.4	340.2	335.0	361.0
70°	1233.7	724.6	594.8	444.1	358.4	374.0	397.4	340.2	285.7	277.9	301.3
72.5°	1002.5	576.6	464.9	340.2	264.9	309.1	337.6	277.9	226.0	220.8	241.5
75°	774.0	423.4	332.5	231.2	192.2	238.9	264.9	202.6	161.0	153.2	171.4
77.5°	516.9	262.3	187.0	145.4	114.3	163.6	176.6	106.5	93.5	90.9	103.9
80°	314.3	122.1	80.5	70.1	39.0	59.7	70.1	44.2	49.3	51.9	62.3
82.5°	158.4	33.8	13.0	2.6	0.0	0.0	20.8	10.4	20.8	26.0	39.0
85°	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	13.0	23.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4
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°	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5
2.5°	4732.2	4841.3	4945.2	5111.4	5282.9	5451.7	5623.1	5789.3	5849.1	5893.2	5991.9
5°	4186.8	4392.0	4630.9	4960.8	5314.0	5677.6	6046.5	6384.1	6537.3	6641.2	6875.0
7.5°	3623.2	3890.7	4233.6	4729.6	5282.9	5862.0	6441.2	6973.7	7220.4	7420.4	7776.2
10°	3064.8	3355.7	3789.4	4355.6	5103.6	5934.8	6734.7	7467.2	7786.6	8038.6	8521.7
12.5°	2573.9	2846.6	3301.1	3927.1	4823.1	5877.6	6903.6	7784.0	8160.6	8443.7	8973.6
15°	2228.5	2420.7	2823.2	3498.5	4490.7	5693.2	6913.9	7934.7	8347.6	8643.7	9103.4
17.5°	2036.3	2101.2	2363.5	3062.2	4121.9	5451.7	6817.8	7986.6	8428.2	8703.5	9022.9
20°	1932.4	1942.8	2015.5	2496.0	3649.2	5225.7	6726.9	8038.6	8503.5	8734.6	8830.7
22.5°	1849.3	1849.3	1867.4	2041.5	3038.8	4955.6	6698.4	8129.5	8607.4	8750.2	8552.8
25°	1773.9	1773.9	1779.1	1825.9	2407.7	4542.6	6680.2	8269.7	8750.2	8789.2	8246.3
27.5°	1696.0	1698.6	1698.6	1724.6	1940.2	3981.6	6602.3	8451.5	8921.6	8841.1	7952.9
30°	1618.1	1623.3	1623.3	1641.5	1716.8	3324.5	6449.0	8669.7	9145.0	8908.6	7662.0
32.5°	1540.2	1545.4	1545.4	1561.0	1615.5	2654.4	6256.8	8869.7	9371.0	8937.2	7391.8
35°	1459.7	1467.5	1462.3	1483.0	1540.2	2111.6	6012.7	9069.7	9615.1	9028.1	7259.4
37.5°	1379.2	1384.3	1381.7	1402.5	1467.5	1823.3	5729.6	9220.3	9947.6	9230.7	7417.8
40°	1298.6	1296.0	1296.0	1319.4	1389.5	1740.2	5373.8	9459.3	10425.5	9586.5	8108.7
42.5°	1215.5	1215.5	1210.3	1236.3	1322.0	1677.8	5033.5	9887.8	11121.5	10152.7	9334.6
45°	1140.2	1137.6	1127.2	1150.6	1257.1	1568.8	4914.0	10687.8	12150.0	11069.6	10817.6
47.5°	1067.5	1064.9	1038.9	1059.7	1179.2	1470.1	5360.8	11996.8	13576.0	12417.6	12207.2
50°	1002.5	1005.1	955.8	974.0	1101.2	1394.7	6329.6	13695.4	15469.4	14233.1	13524.0
52.5°	942.8	942.8	877.9	888.3	1005.1	1327.2	7251.6	15536.9	17967.9	16765.4	15059.0
55°	883.1	877.9	805.2	810.3	909.0	1231.1	7389.2	17334.2	21375.6	20575.6	17157.6
57.5°	815.5	805.2	737.6	737.6	820.7	1161.0	6404.9	18716.0	25603.9	26175.3	20183.4
60°	732.4	724.6	680.5	667.5	750.6	1223.3	4519.3	18877.0	28331.1	33621.7	25977.9
62.5°	625.9	636.3	613.0	594.8	683.1	1270.1	2677.8	17580.9	27671.4	35990.4	32917.8
65°	493.5	535.0	529.8	516.9	750.6	1070.1	1581.7	15092.8	25648.1	34078.8	31502.3
67.5°	420.8	449.3	441.5	441.5	787.0	812.9	994.8	11791.6	22863.8	31811.4	28138.9
70°	358.4	387.0	358.4	358.4	594.8	493.5	688.3	8233.4	19858.8	29302.4	25931.2
72.5°	296.1	324.7	293.5	272.7	475.3	368.8	503.9	5145.2	17006.9	26689.6	24419.6
75°	226.0	259.7	236.4	210.4	314.3	275.3	381.8	2989.5	14090.2	22835.2	22266.4
77.5°	142.9	187.0	176.6	148.0	231.2	200.0	275.3	1779.1	10872.2	17843.3	19152.3
80°	88.3	96.1	98.7	93.5	132.5	135.1	187.0	1012.9	7441.2	12435.7	14962.9
82.5°	57.1	57.1	44.2	49.3	64.9	77.9	106.5	381.8	4373.8	7571.1	10415.1
85°	41.6	36.4	23.4	23.4	31.2	39.0	41.6	116.9	1773.9	2989.5	4072.5
87.5°	20.8	18.2	7.8	10.4	15.6	13.0	10.4	5.2	446.7	955.8	670.1
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°	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5	5220.5
2.5°	6043.9	6124.4	6129.6	6129.6	6059.4	6056.8	5914.0	5898.4
5°	7116.5	7168.5	7181.5	7155.5	7015.2	6911.3	6633.4	6573.7
7.5°	8098.3	8202.2	8202.2	8139.9	7911.3	7698.3	7295.7	7145.1
10°	8882.7	9002.2	8976.2	8848.9	8560.6	8267.1	7778.8	7581.4
12.5°	9264.5	9386.5	9319.0	9173.6	8893.1	8584.0	8069.7	7846.4
15°	9256.7	9222.9	9152.8	9134.6	8999.6	8765.8	8285.3	8041.2
17.5°	8926.8	8641.1	8586.6	8768.4	8939.8	8882.7	8472.3	8243.7
20°	8404.8	7906.1	7856.8	8204.8	8693.1	8942.4	8646.3	8435.9
22.5°	7854.2	7316.5	7202.2	7586.6	8321.7	8960.6	8867.1	8656.7
25°	7332.1	6791.9	6677.6	7036.0	7908.7	8929.4	9106.0	8926.8
27.5°	6895.8	6373.7	6267.2	6625.6	7511.3	8841.1	9345.0	9217.7
30°	6558.1	6075.0	5997.1	6342.5	7168.5	8732.0	9648.9	9578.7
32.5°	6360.7	6007.5	6036.1	6319.2	6984.1	8612.6	9939.8	9973.5
35°	6555.5	6571.1	6820.4	6937.3	7155.5	8594.4	10334.6	10467.0
37.5°	7524.3	8064.5	8581.4	8485.3	7994.4	8804.8	10924.1	11170.9
40°	9173.6	10282.6	11121.5	10755.3	9519.0	9448.9	11773.4	12142.3
42.5°	11189.1	13069.5	14451.2	13469.5	11485.1	10576.1	12986.4	13456.5
45°	13316.2	16505.7	18682.2	16640.7	13581.1	12155.2	14822.6	15191.5
47.5°	15557.7	20682.1	23497.5	20157.4	15523.9	13952.6	17326.4	17412.1
50°	18009.5	25261.1	28406.4	23671.6	17399.1	16012.2	20386.0	20287.3
52.5°	20344.4	29969.9	33211.3	27201.3	19045.8	18567.9	23936.5	23733.9
55°	22572.9	34676.2	38044.9	30593.3	20599.0	21944.4	28154.4	26928.5
57.5°	25157.2	38907.2	43026.4	34000.9	22770.3	26328.6	32871.1	28783.0
60°	28977.8	43714.7	48659.9	38670.8	26900.0	30936.1	34561.9	28429.8
62.5°	33855.5	48135.3	52755.8	43247.2	31047.8	31803.6	32071.1	25707.8
65°	34803.5	49254.7	52987.0	44470.5	30512.8	26977.9	26183.1	20663.9
67.5°	32289.3	47231.4	49756.0	42192.7	26990.9	20848.3	19648.4	14991.5
70°	29468.7	43374.5	44125.1	38320.2	23739.1	15334.3	13269.5	9620.3
72.5°	26577.9	38229.3	36676.1	33278.9	20863.9	11165.7	9571.0	6838.6
75°	23144.3	31463.4	28889.5	27650.6	17274.5	8763.2	6924.3	4719.2
77.5°	18534.1	22147.0	21458.7	21432.7	12981.2	6402.3	4620.6	2958.3
80°	13074.7	14373.3	14022.7	16142.1	8708.7	4643.9	2781.7	1646.7
82.5°	6329.6	7947.7	8158.0	9612.5	4236.2	2732.3	641.5	358.4
85°	2477.8	3833.6	3233.6	3649.2	1189.6	761.0	15.6	0.0
87.5°	277.9	444.1	407.8	322.1	145.4	31.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)