

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: P951288

Luminaire Tested: **GALN-SB5C-727-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951288
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-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 26780 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

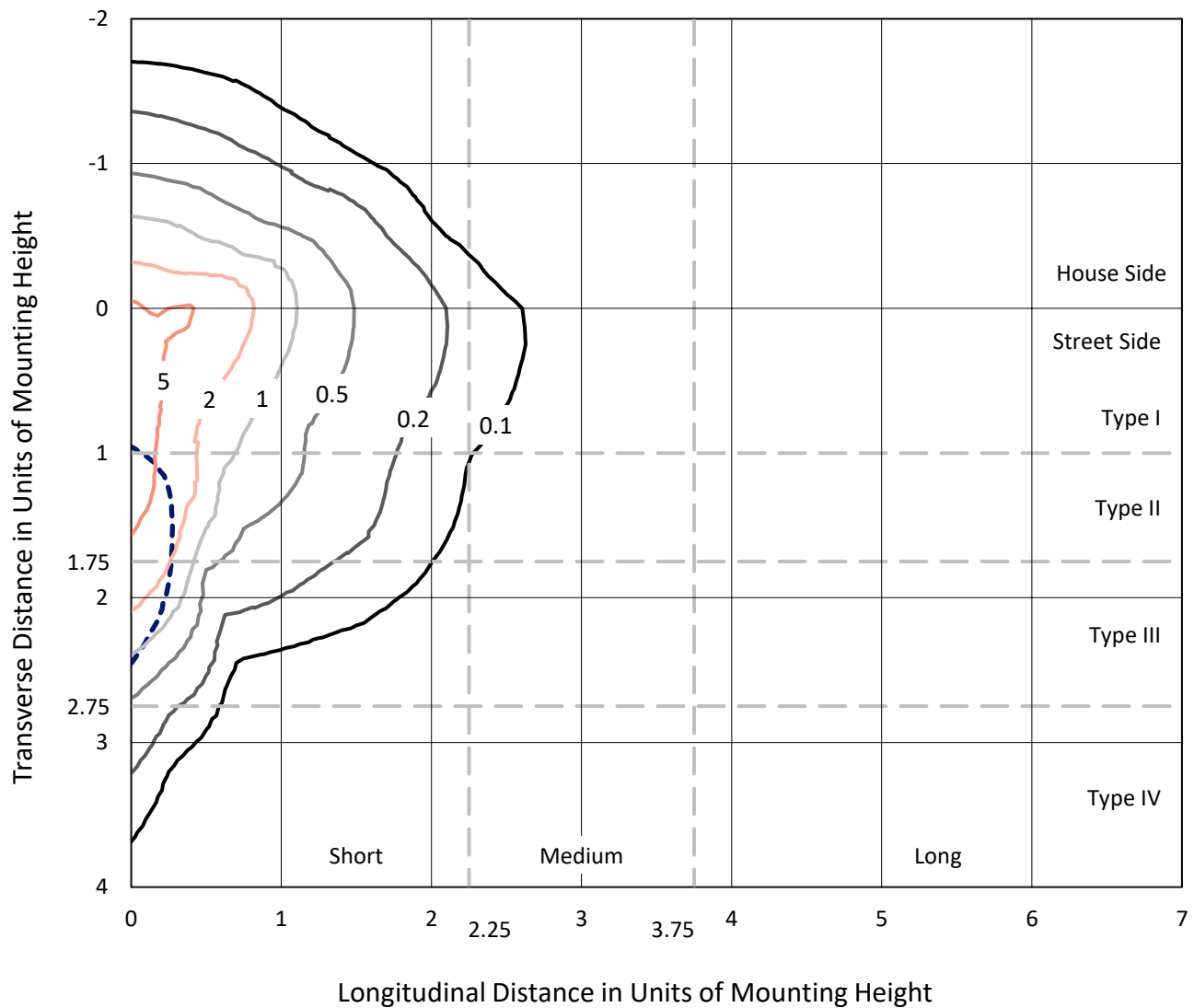


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Iso-Footcandle Lines of Horizontal Illumination

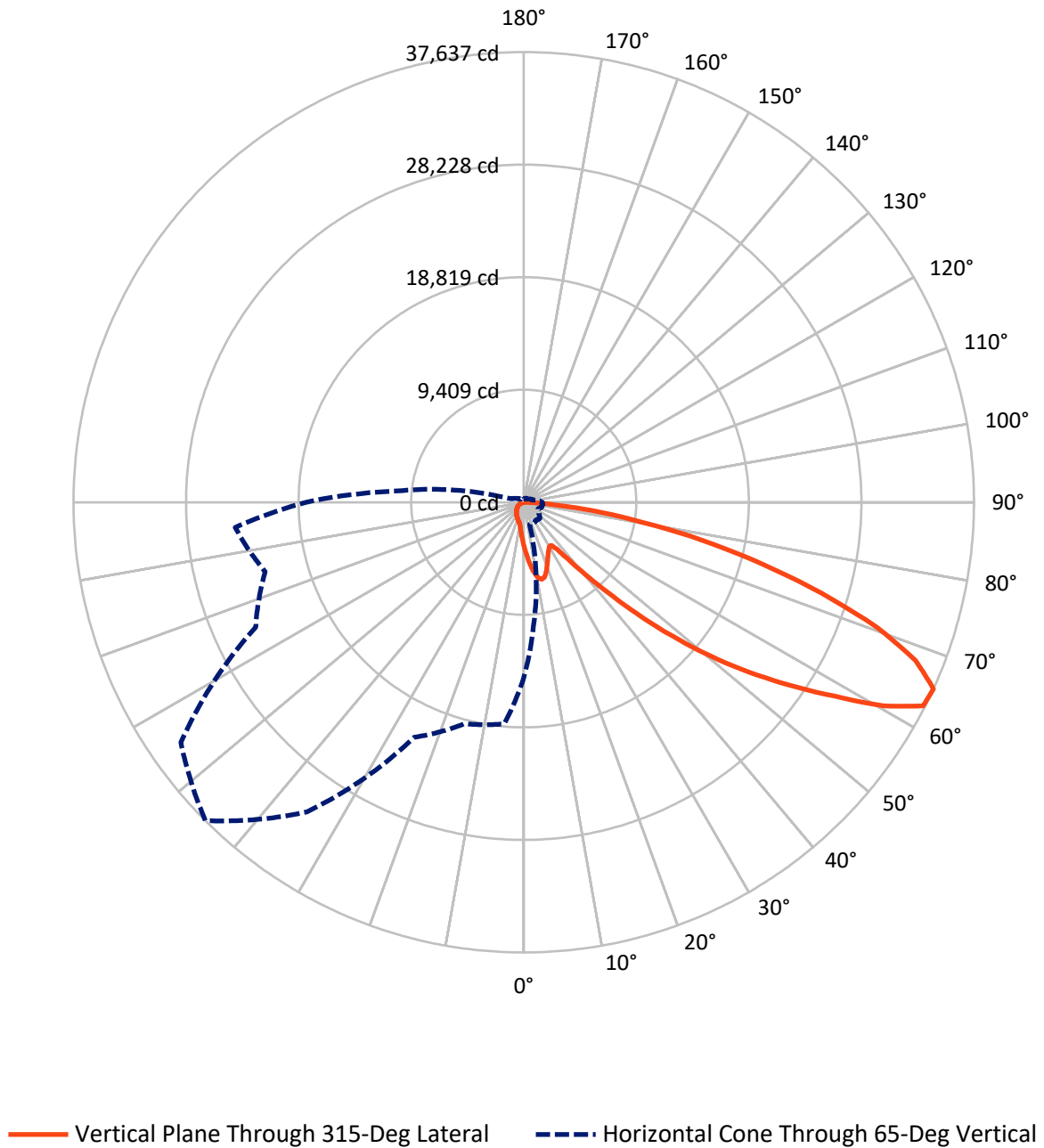
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	3750.3	0.0	3750.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	23029.7	0.0	23029.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	26780.0	0.0	26780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.1	1.4
10°-20°	1094.4	4.1
20°-30°	1612.3	6.0
30°-40°	2071.4	7.7
40°-50°	3350.0	12.5
50°-60°	5874.5	21.9
60°-70°	7350.6	27.4
70°-80°	4295.4	16.0
80°-90°	766.4	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°	26780.0	100.0
0°-180°	26780.0	100.0

Coefficient of Utilization



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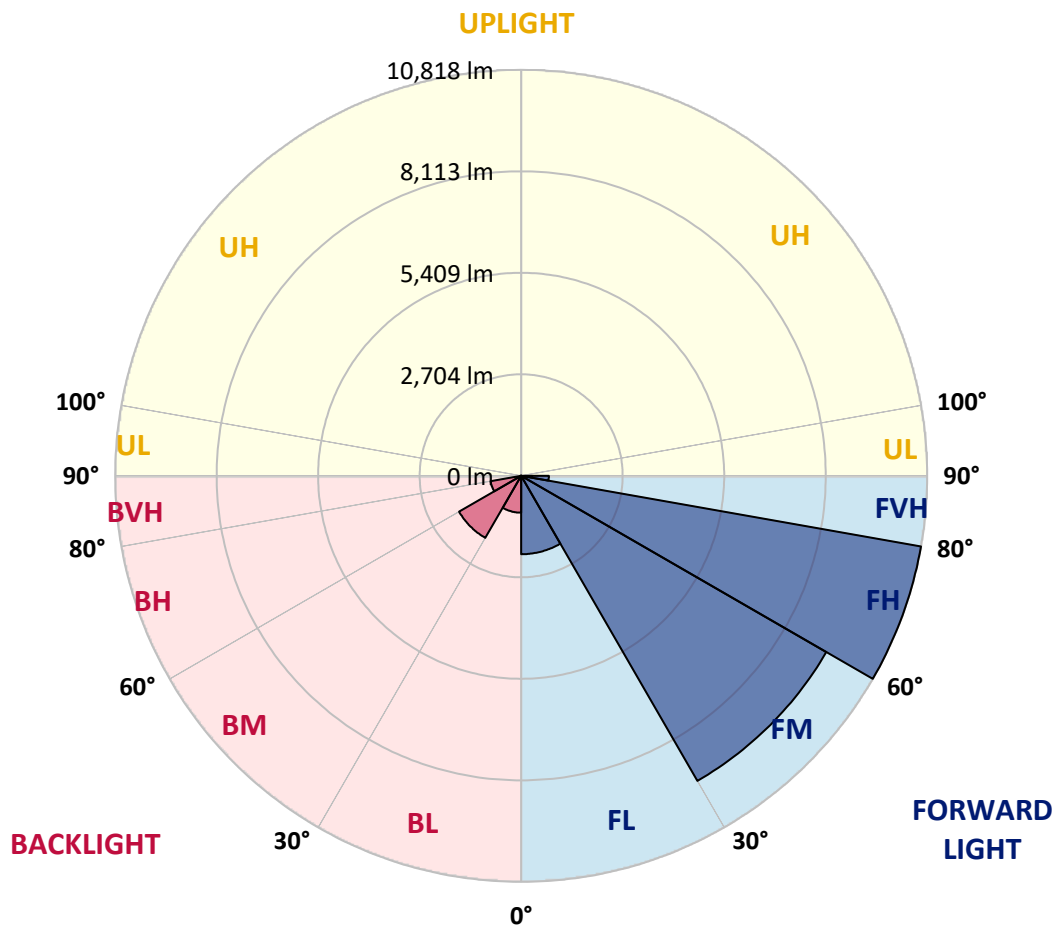
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2088.7	7.8			
FM	(30°-60°)	9386.1	35.0			
FH	(60°-80°)	10817.9	40.4			G4/12000
FVH	(80°-90°)	736.9	2.8			G4/750
BL	(0°-30°)	983.0	3.7	B2/1000		
BM	(30°-60°)	1909.8	7.1	B2/2500		
BH	(60°-80°)	828.1	3.1	B2/1000		G2/1000
BVH	(80°-90°)	29.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2
2.5°	4189.7	4117.7	4075.3	3970.1	3865.0	3780.1	3665.7	3590.1	3499.7	3413.0	3335.5
5°	4669.3	4553.1	4412.9	4221.0	4045.8	3866.8	3693.4	3521.8	3341.0	3175.0	3073.5
7.5°	5075.2	4907.3	4660.1	4405.5	4182.3	3966.5	3763.5	3536.6	3317.1	3056.9	2918.6
10°	5385.2	5171.1	4846.5	4512.5	4256.1	4038.4	3841.0	3649.1	3427.8	3114.1	2940.7
12.5°	5573.3	5344.6	4959.0	4567.9	4274.5	4031.0	3877.9	3793.0	3706.3	3394.5	3191.6
15°	5711.7	5464.5	5038.3	4606.6	4232.1	3933.2	3820.7	3905.6	4005.2	3806.0	3571.7
17.5°	5855.6	5595.5	5141.6	4623.2	4117.7	3743.2	3695.3	3914.8	4145.4	4136.2	3903.7
20°	5992.1	5733.8	5232.0	4612.2	3933.2	3512.6	3555.0	3835.5	4103.0	4215.5	4090.1
22.5°	6148.9	5875.9	5318.7	4569.7	3693.4	3296.8	3429.6	3710.0	3944.3	4077.1	4038.4
25°	6340.8	6054.8	5440.5	4507.0	3435.1	3117.8	3302.3	3564.3	3754.3	3846.5	3844.7
27.5°	6547.4	6268.8	5602.8	4473.8	3226.7	2990.5	3158.4	3390.9	3560.6	3625.2	3625.2
30°	6803.9	6517.9	5794.7	4436.9	3090.1	2916.7	3009.0	3189.8	3355.8	3420.4	3420.4
32.5°	7084.3	6794.6	5979.2	4348.3	3007.1	2861.4	2863.2	2977.6	3128.9	3206.4	3217.4
35°	7434.8	7126.7	6176.6	4154.6	2940.7	2796.8	2721.2	2776.5	2902.0	2994.2	3018.2
37.5°	7934.8	7562.1	6418.3	3877.9	2842.9	2697.2	2571.7	2584.7	2680.6	2782.1	2818.9
40°	8624.7	8146.9	6702.4	3590.1	2702.7	2557.0	2407.5	2402.0	2472.1	2571.7	2612.3
42.5°	9558.2	8919.9	7043.7	3315.2	2568.0	2387.3	2234.1	2224.9	2280.2	2367.0	2409.4
45°	10790.6	9908.8	7462.5	3079.1	2462.9	2221.2	2069.9	2066.2	2112.4	2188.0	2232.3
47.5°	12368.0	11283.2	7881.3	2918.6	2407.5	2090.2	1935.3	1942.6	1983.2	2051.5	2082.8
50°	14410.2	13074.5	8008.5	2837.4	2407.5	2020.1	1815.3	1852.2	1885.4	1937.1	1955.6
52.5°	16858.4	14794.0	7587.9	2763.6	2422.3	2029.3	1713.9	1793.2	1817.2	1861.5	1868.8
55°	19127.5	15637.1	6523.4	2662.1	2426.0	2086.5	1627.2	1745.2	1789.5	1806.1	1804.3
57.5°	20444.8	15347.4	5274.5	2490.6	2411.2	2125.3	1571.8	1686.2	1771.1	1782.1	1765.5
60°	20193.9	14330.9	3883.4	2359.6	2302.4	2110.5	1555.2	1595.8	1730.5	1747.1	1724.9
62.5°	18260.4	12626.2	2695.3	2258.1	2062.6	2046.0	1549.7	1453.8	1641.9	1682.5	1651.2
65°	14677.7	9940.1	1903.9	1944.5	1808.0	1905.7	1520.2	1306.2	1534.9	1590.3	1542.3
67.5°	10648.5	6726.4	1374.4	1575.5	1638.2	1678.8	1453.8	1199.2	1413.2	1487.0	1424.2
70°	6833.4	3632.5	964.9	1040.5	1380.0	1426.1	1339.4	1103.2	1289.6	1374.4	1306.2
72.5°	4857.5	2145.6	693.7	728.7	1108.8	1188.1	1178.9	996.2	1145.7	1249.0	1167.8
75°	3352.1	1182.6	468.6	520.3	804.4	964.9	909.5	856.0	970.4	1075.6	996.2
77.5°	2101.3	529.5	280.4	361.6	527.6	758.2	623.6	662.3	756.4	854.2	771.2
80°	1169.6	204.8	156.8	239.8	287.8	551.6	345.0	426.2	557.1	627.3	560.8
82.5°	254.6	25.8	70.1	103.3	112.5	321.0	182.6	247.2	350.5	345.0	298.9
85°	0.0	0.0	12.9	14.8	7.4	138.4	66.4	81.2	114.4	107.0	81.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	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°	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2
2.5°	3320.8	3230.4	3163.9	3130.7	3103.1	3128.9	3143.6	3143.6	3206.4	3243.3	3258.0
5°	3009.0	2846.6	2723.0	2640.0	2590.2	2606.8	2625.2	2645.5	2724.9	2778.4	2813.4
7.5°	2793.1	2544.1	2355.9	2239.7	2178.8	2188.0	2200.9	2217.5	2295.0	2348.5	2394.6
10°	2752.5	2394.6	2129.0	1975.8	1902.1	1889.1	1881.8	1876.2	1922.3	1962.9	1999.8
12.5°	2918.6	2402.0	2031.2	1844.9	1754.5	1715.7	1671.4	1636.4	1643.8	1669.6	1715.7
15°	3215.6	2496.1	1999.8	1776.6	1664.1	1599.5	1547.8	1505.4	1496.2	1505.4	1512.8
17.5°	3555.0	2623.4	1996.1	1717.6	1577.4	1510.9	1468.5	1429.8	1416.9	1418.7	1427.9
20°	3780.1	2724.9	1985.1	1651.2	1494.3	1435.3	1398.4	1359.7	1346.7	1350.4	1352.3
22.5°	3802.3	2778.4	1968.5	1577.4	1411.3	1361.5	1324.6	1289.6	1287.7	1287.7	1298.8
25°	3682.3	2778.4	1933.4	1510.9	1332.0	1287.7	1254.5	1212.1	1219.5	1223.1	1237.9
27.5°	3496.0	2711.9	1867.0	1457.4	1263.7	1217.6	1184.4	1145.7	1154.9	1160.4	1177.0
30°	3311.5	2627.1	1787.7	1396.6	1199.2	1145.7	1121.7	1088.5	1092.2	1099.5	1118.0
32.5°	3140.0	2536.7	1693.6	1346.7	1134.6	1081.1	1062.6	1025.7	1031.3	1038.7	1059.0
35°	2970.2	2437.1	1582.9	1287.7	1075.6	1022.1	1007.3	964.9	968.6	979.6	1001.8
37.5°	2787.6	2331.9	1492.5	1228.7	1018.4	963.0	948.3	904.0	907.7	920.6	946.4
40°	2595.7	2228.6	1403.9	1166.0	957.5	902.1	889.2	841.3	844.9	859.7	887.4
42.5°	2402.0	2116.1	1335.7	1084.8	894.8	835.7	822.8	778.5	784.1	800.7	828.3
45°	2223.1	1981.4	1291.4	994.4	835.7	769.3	756.4	715.8	726.9	745.3	773.0
47.5°	2069.9	1843.0	1273.0	918.7	773.0	701.0	690.0	656.8	675.2	695.5	717.7
50°	1939.0	1710.2	1249.0	841.3	714.0	642.0	630.9	608.8	632.8	653.1	673.4
52.5°	1844.9	1558.9	1197.3	771.2	662.3	592.2	588.5	577.4	599.6	618.0	636.5
55°	1763.7	1402.1	1114.3	710.3	616.2	549.8	553.5	547.9	566.4	581.1	597.7
57.5°	1689.9	1265.6	1009.1	662.3	566.4	512.9	523.9	516.6	525.8	535.0	555.3
60°	1601.3	1127.2	883.7	608.8	507.3	476.0	488.9	468.6	466.8	470.4	476.0
62.5°	1470.4	940.9	752.7	542.4	455.7	435.4	440.9	402.2	372.7	372.7	378.2
65°	1287.7	756.4	630.9	468.6	396.6	380.0	376.4	321.0	280.4	276.7	293.3
67.5°	1075.6	621.7	523.9	394.8	330.2	319.2	322.9	282.3	241.7	238.0	256.4
70°	876.3	514.7	422.5	315.5	254.6	265.7	282.3	241.7	202.9	197.4	214.0
72.5°	712.1	409.6	330.2	241.7	188.2	219.5	239.8	197.4	160.5	156.8	171.6
75°	549.8	300.7	236.1	164.2	136.5	169.7	188.2	143.9	114.4	108.8	121.8
77.5°	367.1	186.3	132.8	103.3	81.2	116.2	125.5	75.6	66.4	64.6	73.8
80°	223.2	86.7	57.2	49.8	27.7	42.4	49.8	31.4	35.1	36.9	44.3
82.5°	112.5	24.0	9.2	1.8	0.0	0.0	14.8	7.4	14.8	18.4	27.7
85°	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	9.2	16.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4
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°	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2
2.5°	3361.3	3438.8	3512.6	3630.7	3752.4	3872.4	3994.1	4112.2	4154.6	4186.0	4256.1
5°	2973.9	3119.7	3289.4	3523.7	3774.6	4032.9	4294.8	4534.7	4643.5	4717.3	4883.4
7.5°	2573.6	2763.6	3007.1	3359.5	3752.4	4163.9	4575.3	4953.5	5128.7	5270.8	5523.5
10°	2176.9	2383.6	2691.7	3093.8	3625.2	4215.5	4783.7	5304.0	5530.9	5709.8	6053.0
12.5°	1828.3	2022.0	2344.8	2789.4	3425.9	4174.9	4903.6	5529.1	5796.6	5997.6	6374.0
15°	1582.9	1719.4	2005.4	2485.0	3189.8	4043.9	4911.0	5636.1	5929.4	6139.7	6466.2
17.5°	1446.4	1492.5	1678.8	2175.1	2927.8	3872.4	4842.8	5673.0	5986.6	6182.1	6409.1
20°	1372.6	1380.0	1431.6	1772.9	2592.0	3711.9	4778.2	5709.8	6040.1	6204.3	6272.5
22.5°	1313.5	1313.5	1326.5	1450.1	2158.5	3520.0	4757.9	5774.4	6113.9	6215.3	6075.1
25°	1260.0	1260.0	1263.7	1296.9	1710.2	3226.7	4745.0	5874.0	6215.3	6243.0	5857.4
27.5°	1204.7	1206.5	1206.5	1225.0	1378.1	2828.2	4689.6	6003.2	6337.1	6279.9	5649.0
30°	1149.3	1153.0	1153.0	1166.0	1219.5	2361.4	4580.8	6158.2	6495.8	6327.9	5442.3
32.5°	1094.0	1097.7	1097.7	1108.8	1147.5	1885.4	4444.3	6300.2	6656.3	6348.2	5250.5
35°	1036.8	1042.3	1038.7	1053.4	1094.0	1499.9	4270.9	6442.3	6829.7	6412.7	5156.4
37.5°	979.6	983.3	981.5	996.2	1042.3	1295.1	4069.8	6549.3	7065.8	6556.6	5268.9
40°	922.4	920.6	920.6	937.2	987.0	1236.1	3817.0	6719.0	7405.3	6809.4	5759.7
42.5°	863.4	863.4	859.7	878.2	939.0	1191.8	3575.3	7023.4	7899.7	7211.6	6630.4
45°	809.9	808.0	800.7	817.3	892.9	1114.3	3490.5	7591.6	8630.3	7862.8	7683.9
47.5°	758.2	756.4	737.9	752.7	837.6	1044.2	3807.8	8521.4	9643.1	8820.3	8670.9
50°	712.1	714.0	678.9	691.8	782.2	990.7	4495.9	9728.0	10988.0	10109.8	9606.2
52.5°	669.7	669.7	623.6	630.9	714.0	942.7	5150.9	11036.0	12762.8	11908.6	10696.5
55°	627.3	623.6	571.9	575.6	645.7	874.5	5248.6	12312.6	15183.2	14615.0	12187.2
57.5°	579.3	571.9	523.9	523.9	583.0	824.7	4549.4	13294.1	18186.7	18592.5	14336.4
60°	520.3	514.7	483.4	474.1	533.2	868.9	3210.1	13408.5	20123.8	23881.7	18452.3
62.5°	444.6	452.0	435.4	422.5	485.2	902.1	1902.1	12487.9	19655.2	25564.3	23381.8
65°	350.5	380.0	376.4	367.1	533.2	760.1	1123.5	10720.5	18218.0	24206.4	22376.3
67.5°	298.9	319.2	313.6	313.6	559.0	577.4	706.6	8375.7	16240.3	22595.9	19987.2
70°	254.6	274.9	254.6	254.6	422.5	350.5	488.9	5848.2	14105.8	20813.7	18419.1
72.5°	210.3	230.6	208.5	193.7	337.6	262.0	357.9	3654.7	12080.2	18957.8	17345.4
75°	160.5	184.5	167.9	149.4	223.2	195.6	271.2	2123.4	10008.4	16220.0	15816.0
77.5°	101.5	132.8	125.5	105.2	164.2	142.1	195.6	1263.7	7722.6	12674.2	13604.0
80°	62.7	68.3	70.1	66.4	94.1	95.9	132.8	719.5	5285.5	8833.2	10628.3
82.5°	40.6	40.6	31.4	35.1	46.1	55.3	75.6	271.2	3106.7	5377.8	7397.9
85°	29.5	25.8	16.6	16.6	22.1	27.7	29.5	83.0	1260.0	2123.4	2892.7
87.5°	14.8	12.9	5.5	7.4	11.1	9.2	7.4	3.7	317.3	678.9	476.0
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2	3708.2
2.5°	4293.0	4350.2	4353.9	4353.9	4304.1	4302.2	4200.8	4189.7
5°	5054.9	5091.8	5101.0	5082.6	4983.0	4909.2	4711.8	4669.3
7.5°	5752.3	5826.1	5826.1	5781.8	5619.5	5468.2	5182.2	5075.2
10°	6309.4	6394.3	6375.8	6285.4	6080.7	5872.2	5525.4	5385.2
12.5°	6580.6	6667.3	6619.4	6516.1	6316.8	6097.3	5732.0	5573.3
15°	6575.1	6551.1	6501.3	6488.4	6392.4	6226.4	5885.1	5711.7
17.5°	6340.8	6137.9	6099.1	6228.3	6350.0	6309.4	6017.9	5855.6
20°	5970.0	5615.8	5580.7	5827.9	6174.8	6351.9	6141.5	5992.1
22.5°	5578.9	5197.0	5115.8	5388.8	5910.9	6364.8	6298.4	6148.9
25°	5208.0	4824.3	4743.1	4997.7	5617.6	6342.6	6468.1	6340.8
27.5°	4898.1	4527.3	4451.7	4706.2	5335.3	6279.9	6637.8	6547.4
30°	4658.3	4315.1	4259.8	4505.2	5091.8	6202.4	6853.7	6803.9
32.5°	4518.1	4267.2	4287.5	4488.5	4960.8	6117.6	7060.3	7084.3
35°	4656.4	4667.5	4844.6	4927.6	5082.6	6104.6	7340.7	7434.8
37.5°	5344.6	5728.3	6095.4	6027.2	5678.5	6254.1	7759.5	7934.8
40°	6516.1	7303.8	7899.7	7639.6	6761.4	6711.6	8362.8	8624.7
42.5°	7947.7	9283.3	10264.8	9567.5	8158.0	7512.3	9224.3	9558.2
45°	9458.6	11724.1	13270.1	11820.0	9646.8	8634.0	10528.6	10790.6
47.5°	11050.7	14690.6	16690.5	14318.0	11026.7	9910.6	12307.1	12368.0
50°	12792.3	17943.1	20177.3	16814.1	12358.7	11373.6	14480.3	14410.2
52.5°	14450.8	21287.9	23590.3	19321.2	13528.4	13188.9	17002.3	16858.4
55°	16033.7	24630.8	27023.5	21730.6	14631.6	15587.2	19998.3	19127.5
57.5°	17869.3	27636.0	30562.0	24151.1	16173.9	18701.4	23348.6	20444.8
60°	20583.1	31050.9	34563.5	27468.2	19107.2	21974.2	24549.6	20193.9
62.5°	24047.8	34190.8	37472.8	30718.8	22053.5	22590.3	22780.4	18260.4
65°	24721.2	34986.0	37637.0	31587.7	21673.4	19162.6	18598.1	14677.7
67.5°	22935.3	33548.8	35342.0	29969.8	19171.8	14808.7	13956.4	10648.5
70°	20931.8	30809.2	31342.4	27219.1	16862.0	10892.1	9425.4	6833.4
72.5°	18878.5	27154.5	26051.3	23638.2	14819.8	7931.1	6798.3	4857.5
75°	16439.6	22348.7	20520.4	19640.4	12270.2	6224.6	4918.4	3352.1
77.5°	13164.9	15731.1	15242.3	15223.8	9220.6	4547.6	3282.0	2101.3
80°	9287.0	10209.5	9960.4	11465.8	6185.8	3298.6	1975.8	1169.6
82.5°	4495.9	5645.3	5794.7	6827.8	3009.0	1940.8	455.7	254.6
85°	1760.0	2723.0	2296.9	2592.0	844.9	540.5	11.1	0.0
87.5°	197.4	315.5	289.6	228.8	103.3	22.1	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)