

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: P450666

Luminaire Tested: **GALN-SA1C-727-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4273 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

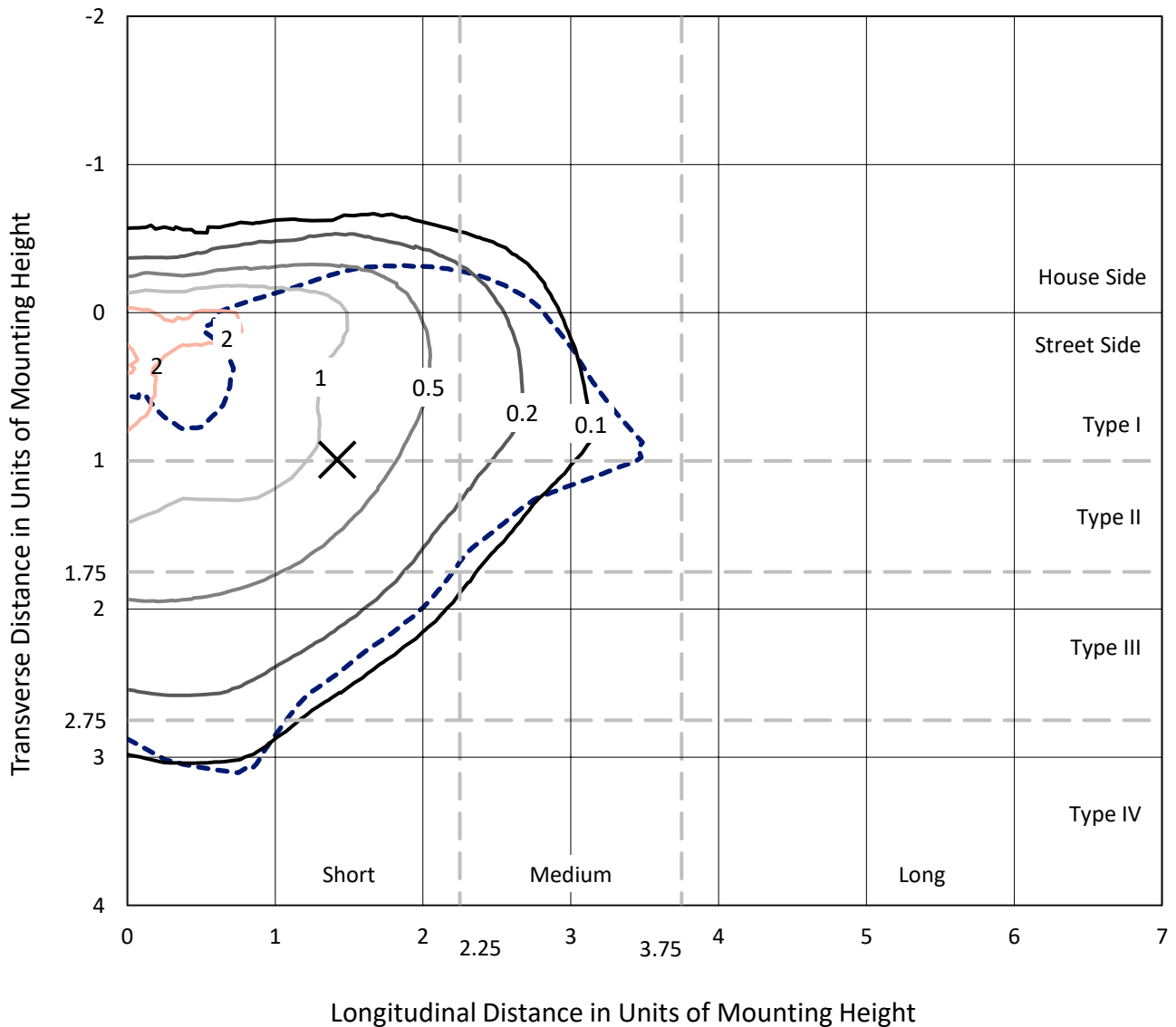
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

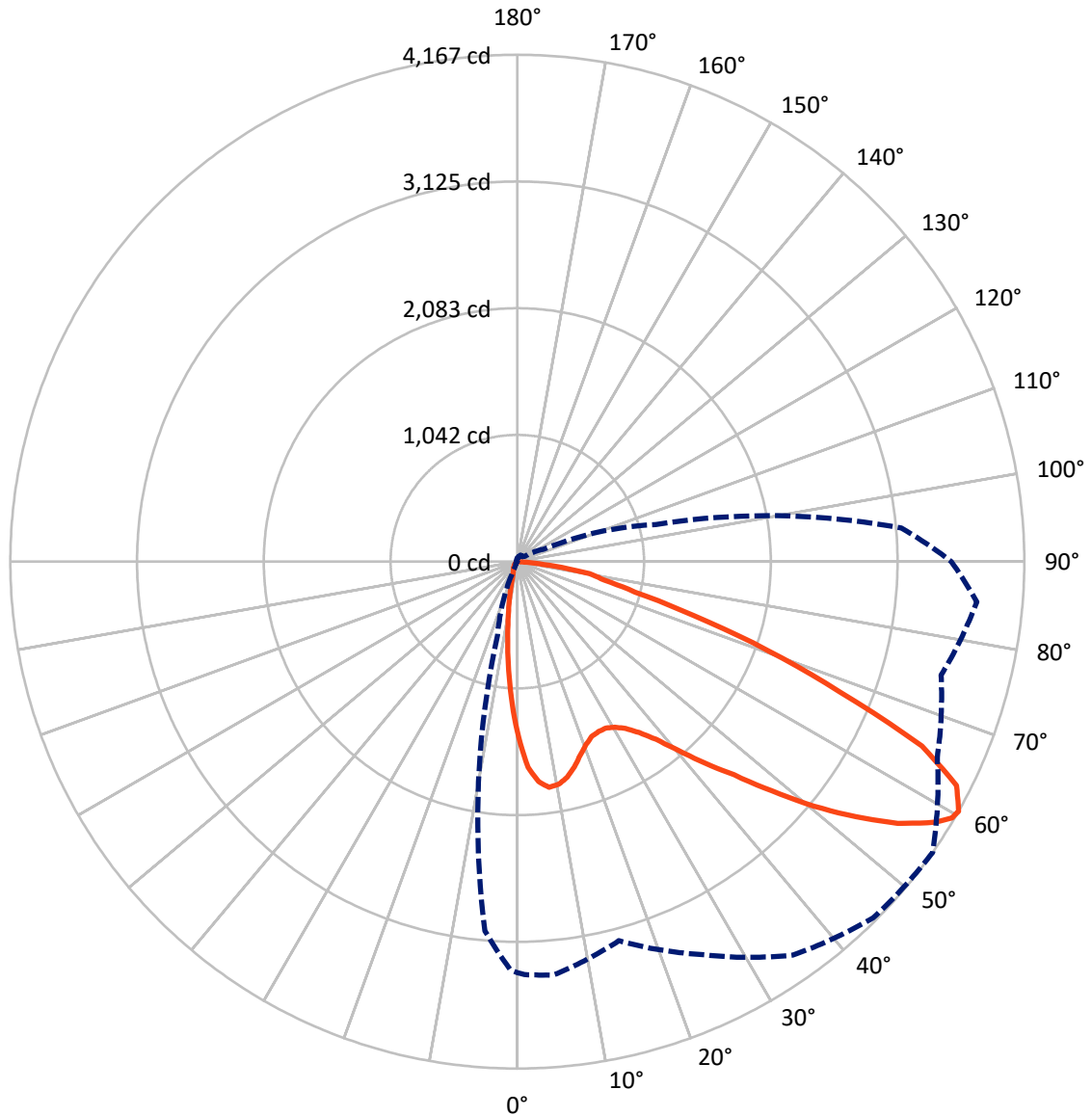
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	634.2	0.0	634.2
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	3638.8	0.0	3638.8
	% Fixture	85.2	0.0	85.2
Total	Lumens	4273.0	0.0	4273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	2.5
10°-20°	211.0	4.9
20°-30°	312.3	7.3
30°-40°	465.5	10.9
40°-50°	681.7	16.0
50°-60°	984.2	23.0
60°-70°	1035.3	24.2
70°-80°	425.9	10.0
80°-90°	49.9	1.2
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°	4273.0	100.0
0°-180°	4273.0	100.0

Coefficient of Utilization



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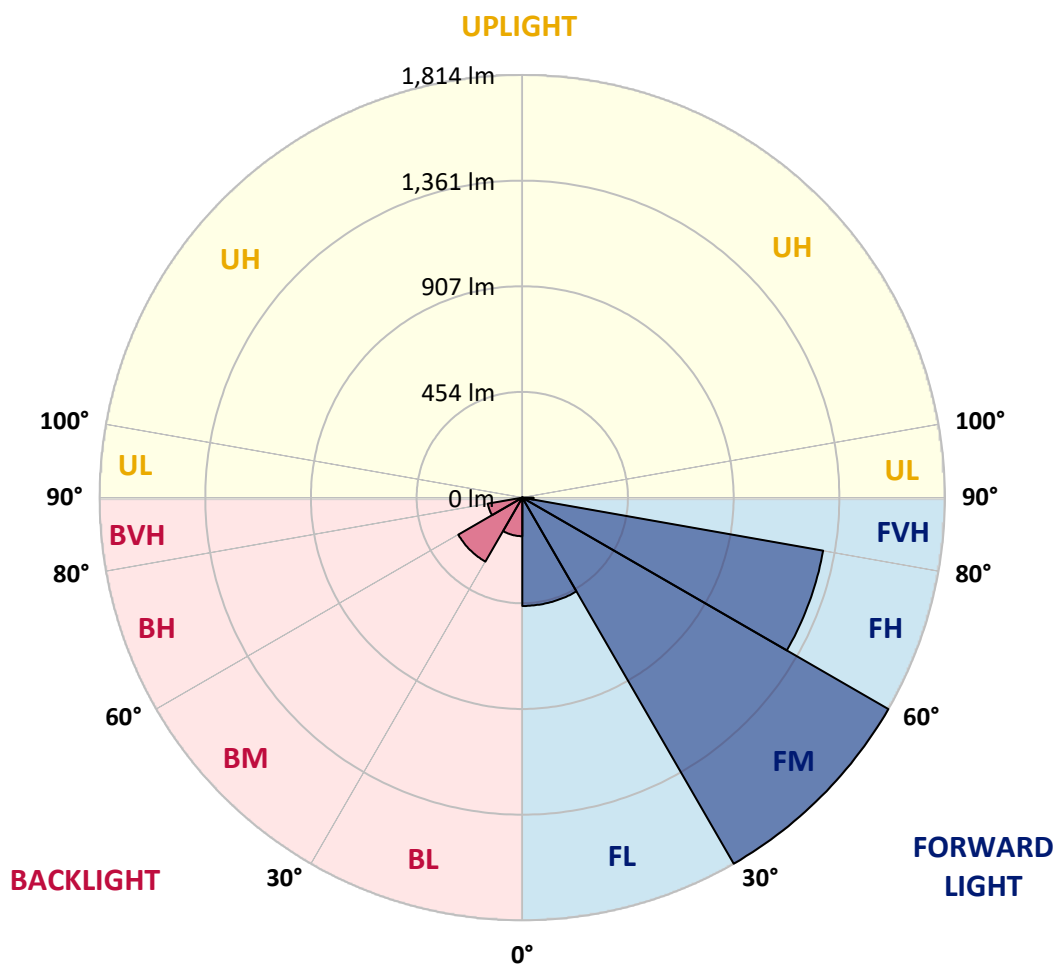
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	465.0	10.9			
FM	(30°-60°)	1814.3	42.5			
FH	(60°-80°)	1311.1	30.7			G1/1800
FVH	(80°-90°)	48.4	1.1			G1/100
BL	(0°-30°)	165.5	3.9	B1/500		
BM	(30°-60°)	317.1	7.4	B1/1000		
BH	(60°-80°)	150.1	3.5	B1/500		G1/500
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8
2.5°	1580.7	1578.1	1601.4	1639.6	1678.0	1698.1	1694.2	1692.5	1660.6	1637.3	1588.3
5°	1577.4	1590.9	1632.7	1735.9	1814.2	1852.0	1863.2	1816.2	1754.0	1663.9	1552.7
7.5°	1483.0	1499.8	1567.9	1729.4	1868.5	1950.7	1947.7	1872.4	1744.2	1604.7	1446.2
10°	1365.9	1385.7	1465.6	1661.6	1842.2	1950.7	1956.6	1861.2	1701.7	1522.8	1356.0
12.5°	1283.4	1306.7	1395.2	1598.4	1774.4	1881.3	1888.2	1819.1	1669.8	1491.2	1307.0
15°	1255.4	1277.4	1367.2	1566.5	1702.4	1759.9	1758.3	1751.1	1657.3	1498.8	1309.7
17.5°	1303.4	1321.5	1422.8	1581.0	1635.0	1629.0	1637.6	1672.5	1660.0	1562.3	1392.6
20°	1427.4	1445.8	1554.7	1625.4	1583.3	1545.8	1549.8	1608.0	1684.3	1681.7	1522.1
22.5°	1598.1	1629.4	1728.0	1711.6	1576.4	1494.2	1486.0	1561.6	1725.7	1819.1	1697.1
25°	1814.2	1845.8	1922.7	1849.1	1610.3	1482.0	1474.5	1547.5	1776.1	1953.3	1894.1
27.5°	1995.8	2019.8	2096.4	1982.9	1660.3	1487.3	1474.8	1549.4	1816.8	2067.5	2060.2
30°	2141.1	2158.9	2204.0	2045.4	1703.4	1510.3	1495.8	1578.4	1834.9	2123.0	2194.7
32.5°	2258.2	2288.1	2302.3	2112.2	1765.2	1553.7	1529.1	1634.0	1879.0	2191.8	2335.8
35°	2392.1	2426.6	2408.5	2176.0	1846.8	1621.5	1591.2	1724.1	1945.8	2255.3	2499.6
37.5°	2561.8	2601.6	2530.9	2243.1	1932.9	1723.4	1709.3	1850.7	2047.1	2346.0	2675.3
40°	2737.4	2760.4	2649.6	2324.7	2038.8	1871.8	1885.2	2038.8	2179.6	2454.9	2862.1
42.5°	2874.6	2896.3	2771.6	2393.1	2147.1	2047.7	2104.0	2265.8	2331.6	2566.4	3001.5
45°	2979.5	2997.9	2856.2	2467.7	2293.1	2302.6	2408.9	2499.6	2483.8	2634.5	3109.1
47.5°	3061.1	3076.8	2921.3	2548.0	2511.8	2614.4	2776.9	2815.4	2641.7	2708.2	3206.4
50°	3094.6	3099.2	2941.7	2650.3	2760.1	3011.7	3181.1	3157.8	2822.6	2790.0	3310.0
52.5°	3138.4	3137.4	2999.9	2747.6	2993.6	3366.9	3536.0	3483.0	3027.2	2912.7	3426.5
55°	3253.1	3254.5	3124.5	2885.8	3192.6	3653.7	3834.6	3796.2	3242.9	3119.9	3562.3
57.5°	3392.6	3397.5	3301.8	3047.2	3382.7	3861.6	4057.6	4042.8	3534.7	3350.5	3690.6
59°	3410.7	3420.5	3385.7	3161.0	3495.5	3925.4	4133.9	4148.4	3690.9	3502.4	3760.0
60°	3377.8	3394.2	3410.0	3225.5	3561.6	3948.4	4138.5	4166.8	3808.3	3605.7	3791.5
62.5°	3234.4	3260.4	3339.6	3423.8	3644.2	3876.7	3991.5	4050.7	3953.7	3877.1	3794.5
65°	3046.6	3060.1	3174.5	3459.0	3484.0	3541.9	3577.4	3653.4	3779.0	3981.6	3658.7
67.5°	2738.7	2778.5	2918.6	3254.8	3011.4	2943.0	2934.1	2858.5	3184.7	3732.3	3323.9
70°	2262.5	2280.3	2452.9	2668.4	2272.7	2167.4	2209.5	2181.3	2468.7	3213.0	2675.3
72.5°	1710.9	1751.1	1919.8	2127.0	1546.5	1410.0	1526.1	1515.6	1854.3	2582.2	1837.9
75°	1217.3	1243.2	1458.3	1664.6	1083.1	917.6	959.4	998.5	1294.5	2038.8	1086.0
77.5°	836.4	858.8	1020.2	1100.8	790.0	756.8	692.3	730.2	848.2	1209.7	591.0
80°	504.5	503.5	609.8	629.5	550.2	639.1	536.1	601.9	512.8	517.7	228.9
82.5°	327.6	324.3	373.0	406.5	306.2	322.0	216.1	311.5	334.2	144.4	72.4
85°	146.7	152.9	179.2	236.5	134.2	71.4	44.1	95.7	142.4	72.7	0.0
87.5°	15.1	11.8	31.6	57.6	18.4	2.0	6.6	3.3	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8
2.5°	1565.6	1546.5	1489.6	1436.3	1390.6	1334.7	1298.5	1241.6	1207.1	1196.5	1198.2
5°	1502.7	1447.8	1339.6	1253.1	1156.7	1101.8	1018.3	938.0	894.6	878.5	871.3
7.5°	1371.2	1312.3	1181.7	1045.9	942.6	846.3	784.1	713.4	665.0	625.2	618.3
10°	1273.5	1196.2	1034.4	888.4	806.8	734.4	672.3	601.6	544.7	499.3	486.8
12.5°	1215.0	1128.5	947.9	825.5	748.2	673.9	593.0	511.1	452.9	403.9	381.2
15°	1204.4	1104.1	923.5	780.5	685.1	595.3	487.8	399.3	339.4	293.0	278.9
17.5°	1267.9	1147.9	919.9	733.4	602.5	475.3	363.4	290.1	222.7	196.7	186.5
20°	1381.0	1225.1	919.6	678.8	517.7	366.1	255.2	189.1	161.8	149.3	143.4
22.5°	1535.3	1330.4	937.0	631.8	429.5	270.0	182.2	150.6	134.8	124.7	122.4
25°	1723.8	1486.3	979.8	599.9	362.1	211.8	150.3	128.9	115.8	111.2	109.2
27.5°	1891.2	1635.6	1026.8	567.0	313.8	187.5	139.5	118.1	107.5	103.9	101.0
30°	2035.6	1771.1	1049.5	523.6	275.0	171.7	141.4	126.3	112.5	101.6	96.7
32.5°	2155.9	1875.1	1064.3	484.1	242.1	140.4	111.8	97.7	91.4	87.5	84.2
35°	2306.6	1987.5	1055.4	461.8	225.3	127.9	102.0	84.2	73.7	65.8	62.5
37.5°	2464.4	2100.0	1040.0	443.4	217.7	118.7	97.0	79.9	68.4	60.2	55.9
40°	2627.9	2204.3	1021.9	426.3	210.8	112.8	94.1	76.3	64.8	55.9	51.3
42.5°	2777.6	2305.9	1014.7	415.1	199.6	113.8	91.8	74.7	61.2	52.0	48.0
45°	2898.6	2402.3	1024.5	409.2	187.5	112.2	92.4	72.7	58.2	49.3	45.4
47.5°	3027.8	2538.4	1056.4	403.2	175.6	104.3	97.4	72.4	56.9	47.7	43.4
50°	3178.1	2712.8	1129.4	388.8	161.2	95.7	103.6	72.0	55.3	45.7	41.4
52.5°	3378.4	2910.8	1204.8	363.4	140.1	87.5	99.0	71.0	52.0	43.4	39.1
55°	3558.4	3119.3	1268.6	333.5	113.5	75.6	89.1	66.8	46.4	39.5	35.5
57.5°	3632.7	3237.0	1266.6	292.1	90.8	66.4	73.3	61.2	40.5	34.9	31.6
59°	3605.4	3222.2	1224.2	261.5	82.9	61.5	60.8	60.5	37.8	31.6	28.9
60°	3566.9	3168.3	1178.4	246.3	77.9	58.2	55.9	59.9	35.5	29.6	27.0
62.5°	3419.6	2944.6	1026.8	220.7	71.4	49.3	44.7	50.7	31.6	25.7	23.4
65°	3206.1	2600.9	869.3	213.5	69.4	40.8	37.2	36.2	27.0	21.7	19.7
67.5°	2789.7	2201.0	704.2	208.5	70.1	34.2	32.6	27.3	22.4	18.1	16.8
70°	2233.6	1716.2	576.6	202.9	70.7	28.0	27.3	21.7	18.1	15.1	13.8
72.5°	1357.0	1017.3	453.9	176.3	68.7	22.4	24.3	16.4	13.2	10.9	10.2
75°	839.0	696.3	281.5	137.2	45.4	16.4	17.1	10.2	8.9	6.9	6.9
77.5°	486.1	439.7	100.6	49.3	20.1	9.9	7.6	5.3	4.9	3.0	3.0
80°	201.6	161.5	34.9	16.8	10.9	4.6	1.6	0.3	0.0	0.0	0.0
82.5°	58.9	52.3	9.5	7.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8
2.5°	1170.2	1159.4	1154.4	1171.2	1155.8	1175.5	1160.4	1166.9	1186.3	1194.9	1216.9
5°	875.9	864.7	859.4	884.7	883.4	895.9	894.6	906.1	916.0	893.9	916.6
7.5°	610.1	602.5	615.0	634.8	655.8	648.9	648.9	633.5	638.7	635.4	634.4
10°	464.1	438.1	431.5	430.9	438.8	440.4	431.5	410.1	418.0	420.3	434.1
12.5°	365.1	345.0	314.4	300.6	297.0	300.0	270.7	251.9	260.8	255.6	269.0
15°	261.8	245.4	227.3	211.8	207.5	201.6	169.7	147.3	144.7	145.7	148.0
17.5°	186.8	175.6	175.6	159.2	150.3	132.5	116.4	106.6	105.6	106.6	108.2
20°	137.8	131.9	131.2	127.0	117.1	105.2	94.1	92.1	91.4	93.1	93.7
22.5°	118.7	112.5	107.2	106.9	97.7	87.8	82.6	79.9	80.3	80.9	82.6
25°	106.2	99.7	94.1	90.8	84.2	77.3	72.4	71.0	71.0	72.0	72.4
27.5°	97.4	89.1	84.2	79.6	73.7	67.8	63.5	62.5	61.8	62.5	64.1
30°	91.1	82.9	76.6	69.7	65.1	59.5	55.9	54.6	54.3	54.6	55.9
32.5°	77.9	73.0	68.1	61.8	56.2	52.6	48.7	46.4	46.4	47.0	48.3
35°	58.9	56.2	55.9	54.3	49.7	45.7	41.1	38.8	38.8	40.1	40.8
37.5°	52.0	47.0	46.4	45.7	43.7	38.5	34.2	32.2	31.9	32.9	34.2
40°	47.4	41.8	38.8	38.2	38.5	32.6	28.0	26.0	26.0	26.3	27.6
42.5°	43.7	37.2	31.9	31.2	32.6	27.3	22.7	20.7	20.7	20.7	22.4
45°	40.8	33.2	27.0	23.7	25.7	22.4	18.4	16.4	15.8	16.4	17.1
47.5°	38.8	30.3	23.7	19.1	19.1	17.8	14.8	12.5	11.8	12.2	13.2
50°	37.2	27.6	20.1	15.5	13.8	14.1	11.2	9.5	8.9	8.9	9.9
52.5°	34.5	25.0	17.4	13.2	10.5	9.5	8.2	6.9	6.6	6.9	7.6
55°	31.2	22.7	15.1	10.9	8.2	6.6	5.9	4.9	4.6	4.9	5.9
57.5°	27.6	19.1	12.2	8.6	5.6	4.3	3.9	3.3	2.6	3.0	3.6
59°	25.3	17.1	10.5	6.9	4.3	3.0	3.0	2.3	1.6	2.0	3.0
60°	24.3	15.8	8.9	5.9	3.6	2.3	2.3	1.6	1.0	1.3	2.3
62.5°	20.7	13.2	6.9	3.6	1.6	0.3	1.0	0.3	0.0	0.3	1.0
65°	17.4	10.5	4.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3
67.5°	14.5	7.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	11.5	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8
2.5°	1218.2	1265.3	1294.2	1348.8	1404.7	1447.8	1501.8	1550.1	1570.2	1580.7
5°	939.7	1005.1	1060.7	1143.9	1221.2	1315.3	1410.6	1523.1	1566.2	1577.4
7.5°	659.4	726.2	784.4	880.8	991.0	1116.9	1259.7	1402.4	1465.2	1483.0
10°	476.2	547.6	618.7	715.0	818.0	954.5	1103.1	1279.7	1352.1	1365.9
12.5°	300.6	377.2	492.7	611.8	720.6	830.5	986.0	1178.1	1258.0	1283.4
15°	174.3	231.5	318.7	473.9	612.4	757.8	927.5	1140.0	1229.4	1255.4
17.5°	116.8	136.5	196.4	315.1	498.0	690.7	912.7	1171.2	1270.2	1303.4
20°	98.3	107.2	128.3	192.1	383.5	630.8	916.6	1256.1	1386.0	1427.4
22.5°	86.5	94.7	108.2	138.1	267.7	556.5	935.4	1377.4	1545.2	1598.1
25°	76.3	84.5	96.4	114.5	179.9	470.7	976.5	1555.0	1756.0	1814.2
27.5°	67.8	75.3	85.5	101.0	138.5	374.9	1013.0	1728.0	1948.4	1995.8
30°	59.9	66.1	76.0	87.8	115.1	289.1	1031.4	1879.3	2088.5	2141.1
32.5°	52.0	57.9	67.4	77.0	94.7	220.4	1018.6	1990.5	2224.7	2258.2
35°	44.4	50.7	58.5	67.4	81.9	177.9	954.5	2115.5	2365.8	2392.1
37.5°	38.2	43.4	51.6	58.5	74.0	142.4	876.8	2228.0	2524.0	2561.8
40°	32.2	37.5	45.7	52.0	68.1	112.2	806.8	2352.9	2690.7	2737.4
42.5°	26.3	32.6	39.8	50.0	58.5	85.5	721.9	2454.2	2816.0	2874.6
45°	21.0	28.0	35.8	49.7	51.0	65.1	640.0	2533.2	2926.9	2979.5
47.5°	16.8	23.7	34.5	46.4	41.8	51.6	593.3	2615.7	3019.0	3061.1
50°	13.5	19.7	36.2	40.8	34.9	43.7	592.0	2707.8	3066.7	3094.6
52.5°	10.9	16.1	30.6	31.2	29.6	38.5	627.5	2811.4	3115.3	3138.4
55°	9.2	13.5	20.1	23.0	26.6	34.9	654.2	2970.9	3231.4	3253.1
57.5°	7.2	11.5	15.5	18.4	23.7	31.9	657.8	3094.0	3378.4	3392.6
59°	6.2	9.9	13.8	16.4	21.7	29.9	643.0	3101.5	3388.0	3410.7
60°	5.3	8.9	12.2	15.5	20.1	28.3	626.9	3046.6	3352.5	3377.8
62.5°	3.9	6.9	8.9	12.5	16.4	24.3	550.6	2854.8	3216.6	3234.4
65°	2.6	4.9	6.6	9.2	12.8	21.0	448.6	2606.2	3006.8	3046.6
67.5°	1.6	3.6	5.3	6.9	10.5	17.8	319.7	2234.9	2713.1	2738.7
70°	1.0	2.3	3.9	5.6	8.2	14.1	189.8	1766.5	2257.2	2262.5
72.5°	0.7	1.6	2.6	3.9	6.6	12.8	92.1	1151.5	1648.1	1710.9
75°	0.3	1.0	1.6	3.0	5.3	10.5	44.1	769.3	1199.2	1217.3
77.5°	0.0	0.3	1.0	2.0	3.9	8.2	25.7	505.2	817.6	836.4
80°	0.0	0.0	0.7	1.6	3.0	5.3	15.5	298.0	495.3	504.5
82.5°	0.0	0.0	0.3	1.3	2.0	3.9	7.9	130.9	324.3	327.6
85°	0.0	0.0	0.3	1.3	1.6	2.6	3.0	17.8	144.1	146.7
87.5°	0.0	0.0	0.3	1.6	1.6	1.6	1.6	1.0	12.2	15.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)