

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: P450840

Luminaire Tested: **GALN-SA1C-830-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450840
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-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 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: 4060 lumens
Efficiency: N/A
Efficacy: 71.2 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 (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



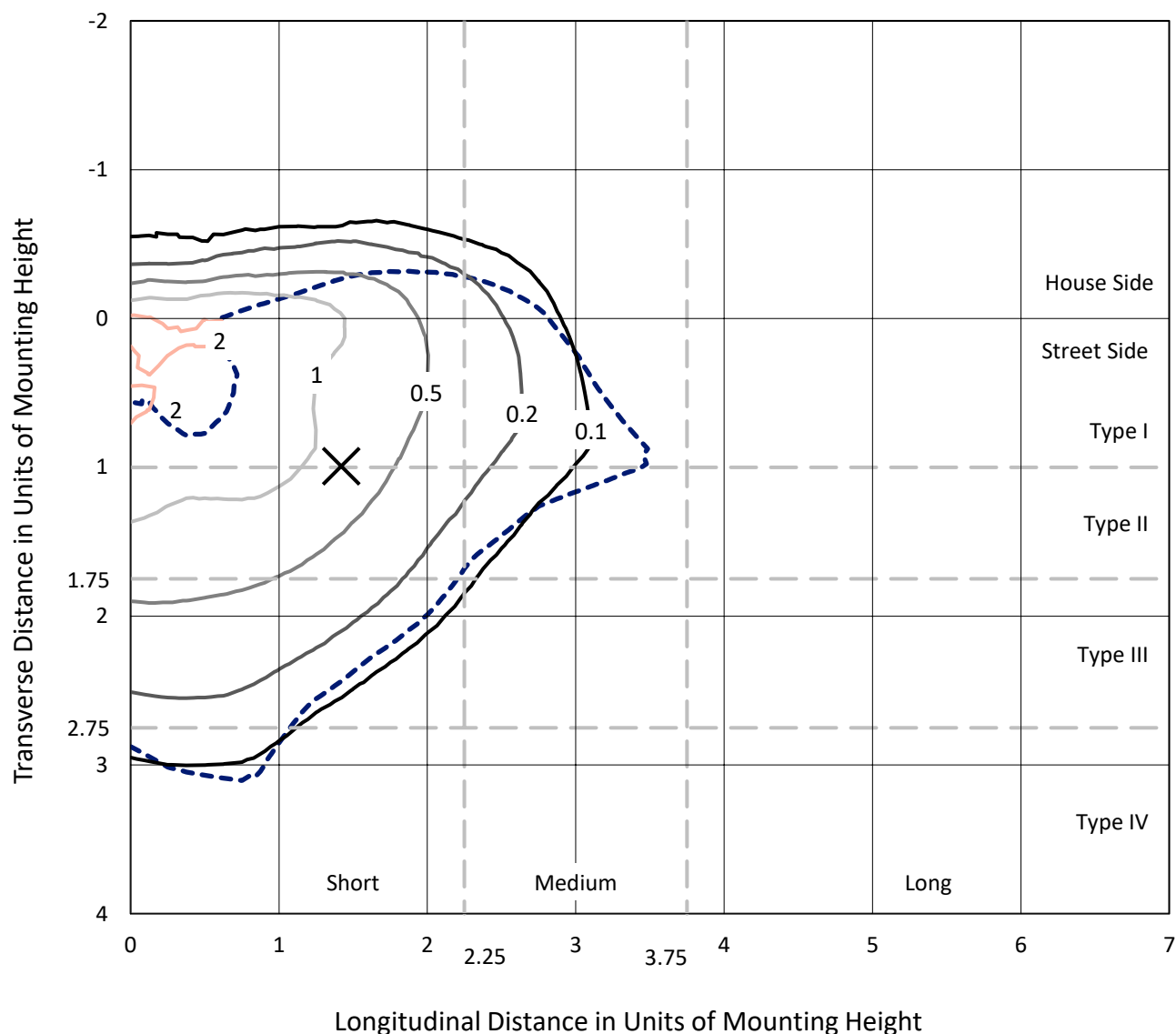
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

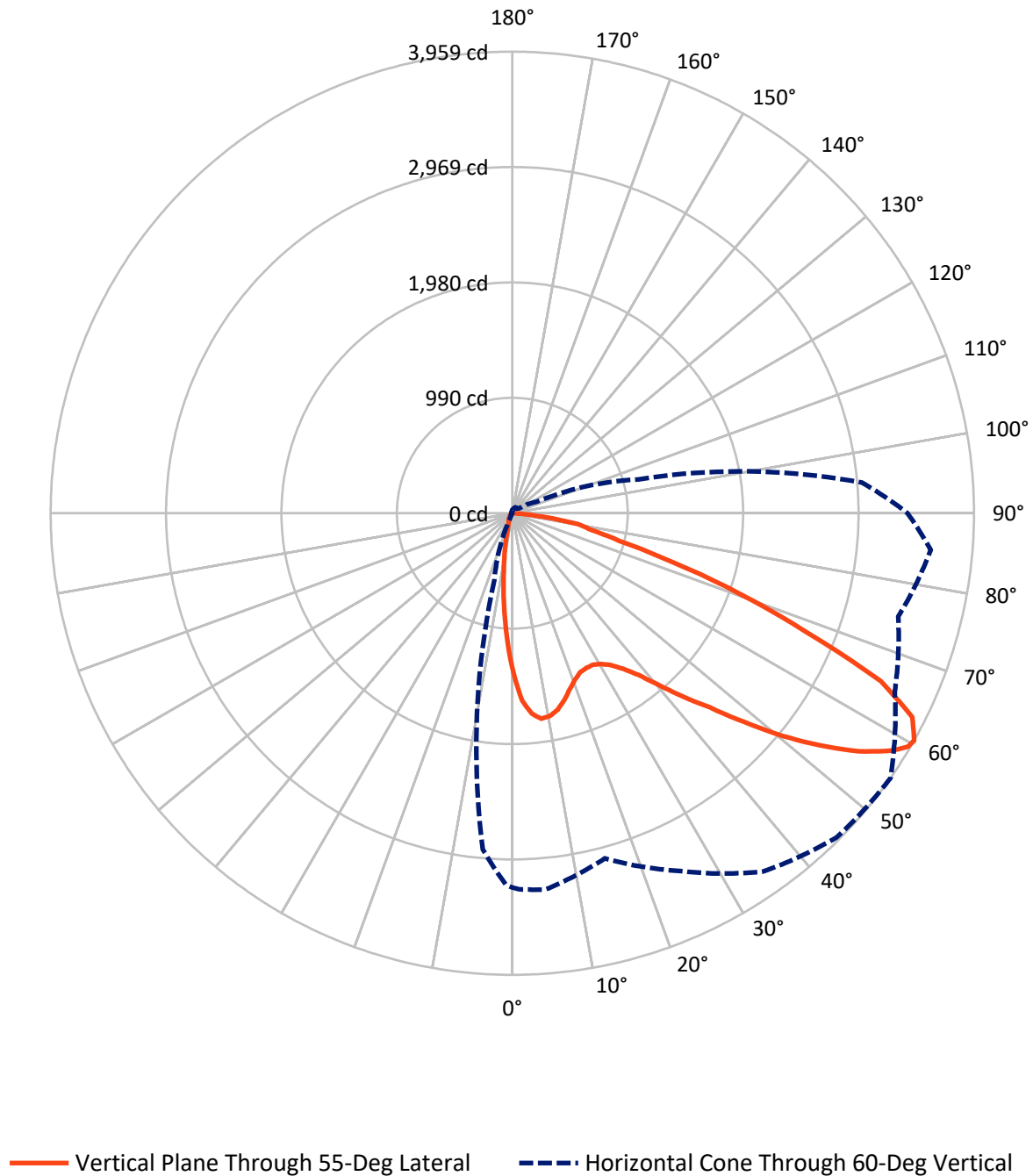
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	602.5	0.0	602.5
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	3457.5	0.0	3457.5
	% Fixture	85.2	0.0	85.2
Total	Lumens	4060.0	0.0	4060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	2.5
10°-20°	200.5	4.9
20°-30°	296.7	7.3
30°-40°	442.3	10.9
40°-50°	647.8	16.0
50°-60°	935.2	23.0
60°-70°	983.7	24.2
70°-80°	404.7	10.0
80°-90°	47.4	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°	4060.0	100.0
0°-180°	4060.0	100.0

Coefficient of Utilization



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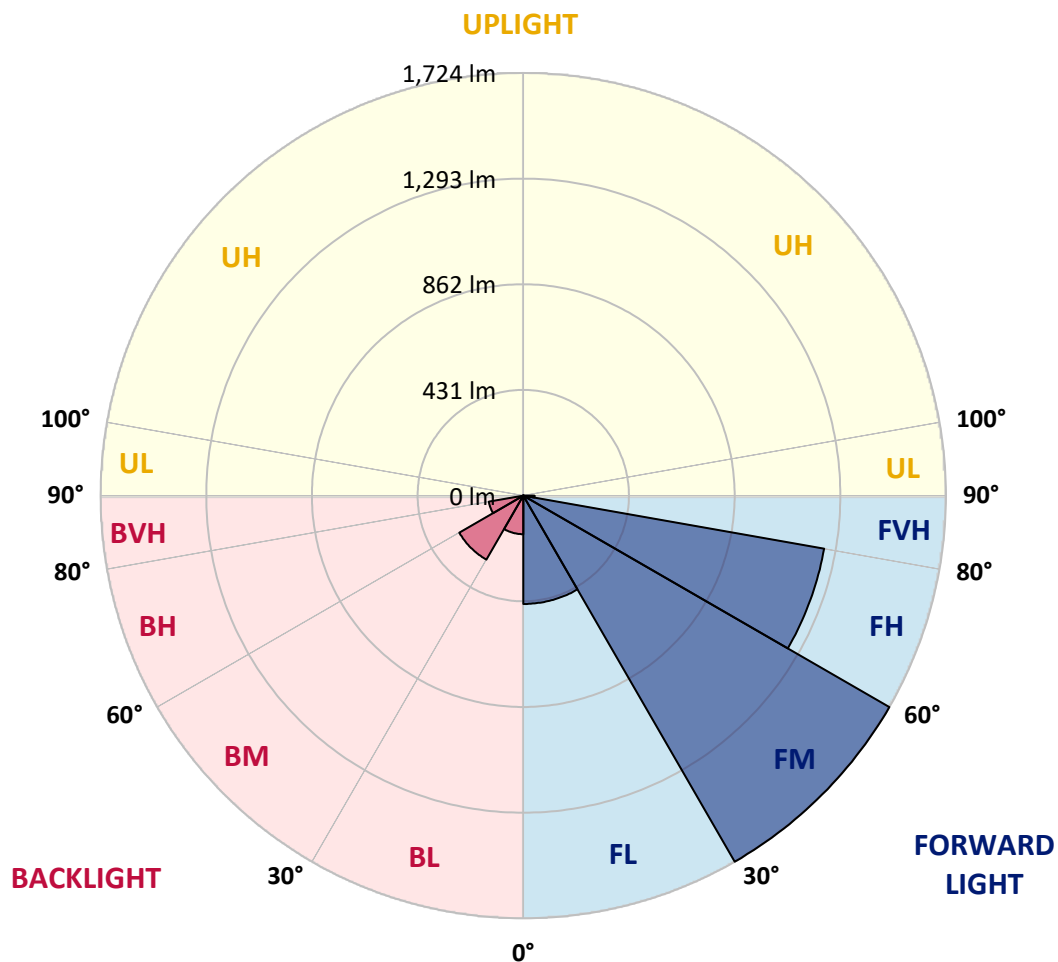
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	441.8	10.9			
FM	(30°-60°)	1723.9	42.5			
FH	(60°-80°)	1245.8	30.7			G1/1800
FVH	(80°-90°)	46.0	1.1			G1/100
BL	(0°-30°)	157.2	3.9	B1/500		
BM	(30°-60°)	301.3	7.4	B1/1000		
BH	(60°-80°)	142.6	3.5	B1/500		G1/500
BVH	(80°-90°)	1.4	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°	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7
2.5°	1501.9	1499.4	1521.6	1557.8	1594.4	1613.5	1609.7	1608.1	1577.8	1555.6	1509.1
5°	1498.8	1511.6	1551.3	1649.4	1723.8	1759.7	1770.3	1725.6	1666.6	1581.0	1475.3
7.5°	1409.1	1425.0	1489.7	1643.1	1775.3	1853.5	1850.6	1779.1	1657.2	1524.7	1374.1
10°	1297.8	1316.6	1392.5	1578.8	1750.3	1853.5	1859.1	1768.5	1616.9	1446.9	1288.5
12.5°	1219.4	1241.6	1325.6	1518.8	1686.0	1787.5	1794.1	1728.5	1586.6	1416.9	1241.9
15°	1192.8	1213.8	1299.1	1488.5	1617.5	1672.2	1670.6	1663.8	1574.7	1424.1	1244.4
17.5°	1238.5	1255.6	1351.9	1502.2	1553.5	1547.8	1556.0	1589.1	1577.2	1484.4	1323.1
20°	1356.3	1373.8	1477.2	1544.4	1504.4	1468.8	1472.5	1527.8	1600.3	1597.8	1446.3
22.5°	1518.5	1548.1	1641.9	1626.3	1497.8	1419.7	1411.9	1483.8	1639.7	1728.5	1612.5
25°	1723.8	1753.8	1826.9	1756.9	1530.0	1408.1	1401.0	1470.3	1687.5	1856.0	1799.7
27.5°	1896.3	1919.1	1991.9	1884.1	1577.5	1413.1	1401.3	1472.2	1726.3	1964.4	1957.5
30°	2034.4	2051.3	2094.1	1943.5	1618.5	1435.0	1421.3	1499.7	1743.5	2017.2	2085.3
32.5°	2145.7	2174.1	2187.5	2006.9	1677.2	1476.3	1452.8	1552.5	1785.3	2082.5	2219.4
35°	2272.8	2305.7	2288.5	2067.5	1754.7	1540.6	1511.9	1638.1	1848.8	2142.8	2375.0
37.5°	2434.1	2471.9	2404.7	2131.3	1836.6	1637.5	1624.1	1758.5	1945.0	2229.1	2541.9
40°	2601.0	2622.8	2517.5	2208.8	1937.2	1778.5	1791.3	1937.2	2071.0	2332.5	2719.4
42.5°	2731.3	2751.9	2633.5	2273.8	2040.0	1945.6	1999.1	2152.8	2215.3	2438.5	2851.9
45°	2831.0	2848.5	2713.8	2344.7	2178.8	2187.8	2288.8	2375.0	2360.0	2503.2	2954.1
47.5°	2908.5	2923.5	2775.7	2421.0	2386.6	2484.1	2638.5	2675.0	2510.0	2573.2	3046.6
50°	2940.3	2944.7	2795.0	2518.2	2622.5	2861.6	3022.5	3000.4	2681.9	2651.0	3145.0
52.5°	2981.9	2981.0	2850.3	2610.7	2844.4	3199.1	3359.7	3309.4	2876.3	2767.5	3255.7
55°	3091.0	3092.2	2968.8	2741.9	3033.5	3471.6	3643.5	3606.9	3081.3	2964.4	3384.7
57.5°	3223.5	3228.2	3137.2	2895.3	3214.1	3669.1	3855.4	3841.3	3358.5	3183.5	3506.6
59°	3240.7	3250.0	3216.9	3003.5	3321.3	3729.7	3927.9	3941.6	3506.9	3327.9	3572.5
60°	3209.4	3225.0	3240.0	3064.7	3384.1	3751.6	3932.2	3959.1	3618.5	3426.0	3602.5
62.5°	3073.2	3097.9	3173.2	3253.2	3462.5	3683.5	3792.5	3848.8	3756.6	3683.8	3605.4
65°	2894.7	2907.5	3016.3	3286.6	3310.4	3365.4	3399.1	3471.3	3590.7	3783.2	3476.3
67.5°	2602.2	2640.0	2773.2	3092.5	2861.3	2796.3	2787.8	2716.0	3026.0	3546.3	3158.2
70°	2149.7	2166.6	2330.7	2535.3	2159.4	2059.4	2099.4	2072.5	2345.7	3052.9	2541.9
72.5°	1625.6	1663.8	1824.1	2021.0	1469.4	1339.7	1450.0	1440.0	1761.9	2453.5	1746.3
75°	1156.6	1181.3	1385.6	1581.6	1029.1	871.9	911.6	948.8	1230.0	1937.2	1031.9
77.5°	794.7	815.9	969.4	1046.0	750.6	719.1	657.8	693.8	805.9	1149.4	561.6
80°	479.4	478.4	579.4	598.1	522.8	607.2	509.4	571.9	487.2	491.9	217.5
82.5°	311.3	308.1	354.4	386.3	290.9	305.9	205.3	295.9	317.5	137.2	68.8
85°	139.4	145.3	170.3	224.7	127.5	67.8	41.9	90.9	135.3	69.1	0.0
87.5°	14.4	11.3	30.0	54.7	17.5	1.9	6.3	3.1	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°	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7
2.5°	1487.5	1469.4	1415.3	1364.7	1321.3	1268.1	1233.8	1179.7	1146.9	1136.9	1138.5
5°	1427.8	1375.6	1272.8	1190.6	1099.1	1046.9	967.5	891.3	850.0	834.7	827.8
7.5°	1302.8	1246.9	1122.8	993.8	895.6	804.1	745.0	677.8	631.9	594.1	587.5
10°	1210.0	1136.6	982.8	844.1	766.6	697.8	638.8	571.6	517.5	474.4	462.5
12.5°	1154.4	1072.2	900.6	784.4	710.9	640.3	563.4	485.6	430.3	383.8	362.2
15°	1144.4	1049.1	877.5	741.6	650.9	565.6	463.4	379.4	322.5	278.4	265.0
17.5°	1204.7	1090.6	874.1	696.9	572.5	451.6	345.3	275.6	211.6	186.9	177.2
20°	1312.2	1164.1	873.8	645.0	491.9	347.8	242.5	179.7	153.8	141.9	136.3
22.5°	1458.8	1264.1	890.3	600.3	408.1	256.6	173.1	143.1	128.1	118.4	116.3
25°	1637.8	1412.2	930.9	570.0	344.1	201.3	142.8	122.5	110.0	105.6	103.8
27.5°	1796.9	1554.1	975.6	538.8	298.1	178.1	132.5	112.2	102.2	98.8	95.9
30°	1934.1	1682.8	997.2	497.5	261.3	163.1	134.4	120.0	106.9	96.6	91.9
32.5°	2048.5	1781.6	1011.3	460.0	230.0	133.4	106.3	92.8	86.9	83.1	80.0
35°	2191.6	1888.5	1002.8	438.8	214.1	121.6	96.9	80.0	70.0	62.5	59.4
37.5°	2341.6	1995.3	988.1	421.3	206.9	112.8	92.2	75.9	65.0	57.2	53.1
40°	2496.9	2094.4	970.9	405.0	200.3	107.2	89.4	72.5	61.6	53.1	48.8
42.5°	2639.1	2191.0	964.1	394.4	189.7	108.1	87.2	70.9	58.1	49.4	45.6
45°	2754.1	2282.5	973.4	388.8	178.1	106.6	87.8	69.1	55.3	46.9	43.1
47.5°	2876.9	2411.9	1003.8	383.1	166.9	99.1	92.5	68.8	54.1	45.3	41.3
50°	3019.7	2577.5	1073.1	369.4	153.1	90.9	98.4	68.4	52.5	43.4	39.4
52.5°	3210.0	2765.7	1144.7	345.3	133.1	83.1	94.1	67.5	49.4	41.3	37.2
55°	3381.0	2963.8	1205.3	316.9	107.8	71.9	84.7	63.4	44.1	37.5	33.8
57.5°	3451.6	3075.7	1203.5	277.5	86.3	63.1	69.7	58.1	38.4	33.1	30.0
59°	3425.7	3061.6	1163.1	248.4	78.8	58.4	57.8	57.5	35.9	30.0	27.5
60°	3389.1	3010.4	1119.7	234.1	74.1	55.3	53.1	56.9	33.8	28.1	25.6
62.5°	3249.1	2797.8	975.6	209.7	67.8	46.9	42.5	48.1	30.0	24.4	22.2
65°	3046.3	2471.3	825.9	202.8	65.9	38.8	35.3	34.4	25.6	20.6	18.8
67.5°	2650.7	2091.3	669.1	198.1	66.6	32.5	30.9	25.9	21.3	17.2	15.9
70°	2122.2	1630.6	547.8	192.8	67.2	26.6	25.9	20.6	17.2	14.4	13.1
72.5°	1289.4	966.6	431.3	167.5	65.3	21.3	23.1	15.6	12.5	10.3	9.7
75°	797.2	661.6	267.5	130.3	43.1	15.6	16.3	9.7	8.4	6.6	6.6
77.5°	461.9	417.8	95.6	46.9	19.1	9.4	7.2	5.0	4.7	2.8	2.8
80°	191.6	153.4	33.1	15.9	10.3	4.4	1.6	0.3	0.0	0.0	0.0
82.5°	55.9	49.7	9.1	7.2	3.1	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°	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7
2.5°	1111.9	1101.6	1096.9	1112.8	1098.1	1116.9	1102.5	1108.8	1127.2	1135.3	1156.3
5°	832.2	821.6	816.6	840.6	839.4	851.3	850.0	860.9	870.3	849.4	870.9
7.5°	579.7	572.5	584.4	603.1	623.1	616.6	616.6	601.9	606.9	603.8	602.8
10°	440.9	416.3	410.0	409.4	416.9	418.4	410.0	389.7	397.2	399.4	412.5
12.5°	346.9	327.8	298.8	285.6	282.2	285.0	257.2	239.4	247.8	242.8	255.6
15°	248.8	233.1	215.9	201.3	197.2	191.6	161.3	140.0	137.5	138.4	140.6
17.5°	177.5	166.9	166.9	151.3	142.8	125.9	110.6	101.3	100.3	101.3	102.8
20°	130.9	125.3	124.7	120.6	111.3	100.0	89.4	87.5	86.9	88.4	89.1
22.5°	112.8	106.9	101.9	101.6	92.8	83.4	78.4	75.9	76.3	76.9	78.4
25°	100.9	94.7	89.4	86.3	80.0	73.4	68.8	67.5	67.5	68.4	68.8
27.5°	92.5	84.7	80.0	75.6	70.0	64.4	60.3	59.4	58.8	59.4	60.9
30°	86.6	78.8	72.8	66.3	61.9	56.6	53.1	51.9	51.6	51.9	53.1
32.5°	74.1	69.4	64.7	58.8	53.4	50.0	46.3	44.1	44.1	44.7	45.9
35°	55.9	53.4	53.1	51.6	47.2	43.4	39.1	36.9	36.9	38.1	38.8
37.5°	49.4	44.7	44.1	43.4	41.6	36.6	32.5	30.6	30.3	31.3	32.5
40°	45.0	39.7	36.9	36.3	36.6	30.9	26.6	24.7	24.7	25.0	26.3
42.5°	41.6	35.3	30.3	29.7	30.9	25.9	21.6	19.7	19.7	19.7	21.3
45°	38.8	31.6	25.6	22.5	24.4	21.3	17.5	15.6	15.0	15.6	16.3
47.5°	36.9	28.8	22.5	18.1	18.1	16.9	14.1	11.9	11.3	11.6	12.5
50°	35.3	26.3	19.1	14.7	13.1	13.4	10.6	9.1	8.4	8.4	9.4
52.5°	32.8	23.8	16.6	12.5	10.0	9.1	7.8	6.6	6.3	6.6	7.2
55°	29.7	21.6	14.4	10.3	7.8	6.3	5.6	4.7	4.4	4.7	5.6
57.5°	26.3	18.1	11.6	8.1	5.3	4.1	3.8	3.1	2.5	2.8	3.4
59°	24.1	16.3	10.0	6.6	4.1	2.8	2.8	2.2	1.6	1.9	2.8
60°	23.1	15.0	8.4	5.6	3.4	2.2	2.2	1.6	0.9	1.3	2.2
62.5°	19.7	12.5	6.6	3.4	1.6	0.3	0.9	0.3	0.0	0.3	0.9
65°	16.6	10.0	4.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3
67.5°	13.8	7.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.9	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°	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7
2.5°	1157.5	1202.2	1229.7	1281.6	1334.7	1375.6	1426.9	1472.8	1491.9	1501.9
5°	892.8	955.0	1007.8	1086.9	1160.3	1249.7	1340.3	1447.2	1488.1	1498.8
7.5°	626.6	690.0	745.3	836.9	941.6	1061.3	1196.9	1332.5	1392.2	1409.1
10°	452.5	520.3	587.8	679.4	777.2	906.9	1048.1	1216.0	1284.7	1297.8
12.5°	285.6	358.4	468.1	581.3	684.7	789.1	936.9	1119.4	1195.3	1219.4
15°	165.6	220.0	302.8	450.3	581.9	720.0	881.3	1083.1	1168.1	1192.8
17.5°	110.9	129.7	186.6	299.4	473.1	656.3	867.2	1112.8	1206.9	1238.5
20°	93.4	101.9	121.9	182.5	364.4	599.4	870.9	1193.5	1316.9	1356.3
22.5°	82.2	90.0	102.8	131.3	254.4	528.8	888.8	1308.8	1468.1	1518.5
25°	72.5	80.3	91.6	108.8	170.9	447.2	927.8	1477.5	1668.5	1723.8
27.5°	64.4	71.6	81.3	95.9	131.6	356.3	962.5	1641.9	1851.3	1896.3
30°	56.9	62.8	72.2	83.4	109.4	274.7	980.0	1785.6	1984.4	2034.4
32.5°	49.4	55.0	64.1	73.1	90.0	209.4	967.8	1891.3	2113.8	2145.7
35°	42.2	48.1	55.6	64.1	77.8	169.1	906.9	2010.0	2247.8	2272.8
37.5°	36.3	41.3	49.1	55.6	70.3	135.3	833.1	2116.9	2398.2	2434.1
40°	30.6	35.6	43.4	49.4	64.7	106.6	766.6	2235.7	2556.6	2601.0
42.5°	25.0	30.9	37.8	47.5	55.6	81.3	685.9	2331.9	2675.7	2731.3
45°	20.0	26.6	34.1	47.2	48.4	61.9	608.1	2406.9	2781.0	2831.0
47.5°	15.9	22.5	32.8	44.1	39.7	49.1	563.8	2485.3	2868.5	2908.5
50°	12.8	18.8	34.4	38.8	33.1	41.6	562.5	2572.8	2913.8	2940.3
52.5°	10.3	15.3	29.1	29.7	28.1	36.6	596.3	2671.3	2960.0	2981.9
55°	8.8	12.8	19.1	21.9	25.3	33.1	621.6	2822.8	3070.4	3091.0
57.5°	6.9	10.9	14.7	17.5	22.5	30.3	625.0	2939.7	3210.0	3223.5
59°	5.9	9.4	13.1	15.6	20.6	28.4	610.9	2946.9	3219.1	3240.7
60°	5.0	8.4	11.6	14.7	19.1	26.9	595.6	2894.7	3185.4	3209.4
62.5°	3.8	6.6	8.4	11.9	15.6	23.1	523.1	2712.5	3056.3	3073.2
65°	2.5	4.7	6.3	8.8	12.2	20.0	426.3	2476.3	2856.9	2894.7
67.5°	1.6	3.4	5.0	6.6	10.0	16.9	303.8	2123.5	2577.8	2602.2
70°	0.9	2.2	3.8	5.3	7.8	13.4	180.3	1678.5	2144.7	2149.7
72.5°	0.6	1.6	2.5	3.8	6.3	12.2	87.5	1094.1	1566.0	1625.6
75°	0.3	0.9	1.6	2.8	5.0	10.0	41.9	730.9	1139.4	1156.6
77.5°	0.0	0.3	0.9	1.9	3.8	7.8	24.4	480.0	776.9	794.7
80°	0.0	0.0	0.6	1.6	2.8	5.0	14.7	283.1	470.6	479.4
82.5°	0.0	0.0	0.3	1.3	1.9	3.8	7.5	124.4	308.1	311.3
85°	0.0	0.0	0.3	1.3	1.6	2.5	2.8	16.9	136.9	139.4
87.5°	0.0	0.0	0.3	1.6	1.6	1.6	1.6	0.9	11.6	14.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)