

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: P450842

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
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-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT 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 IV - 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



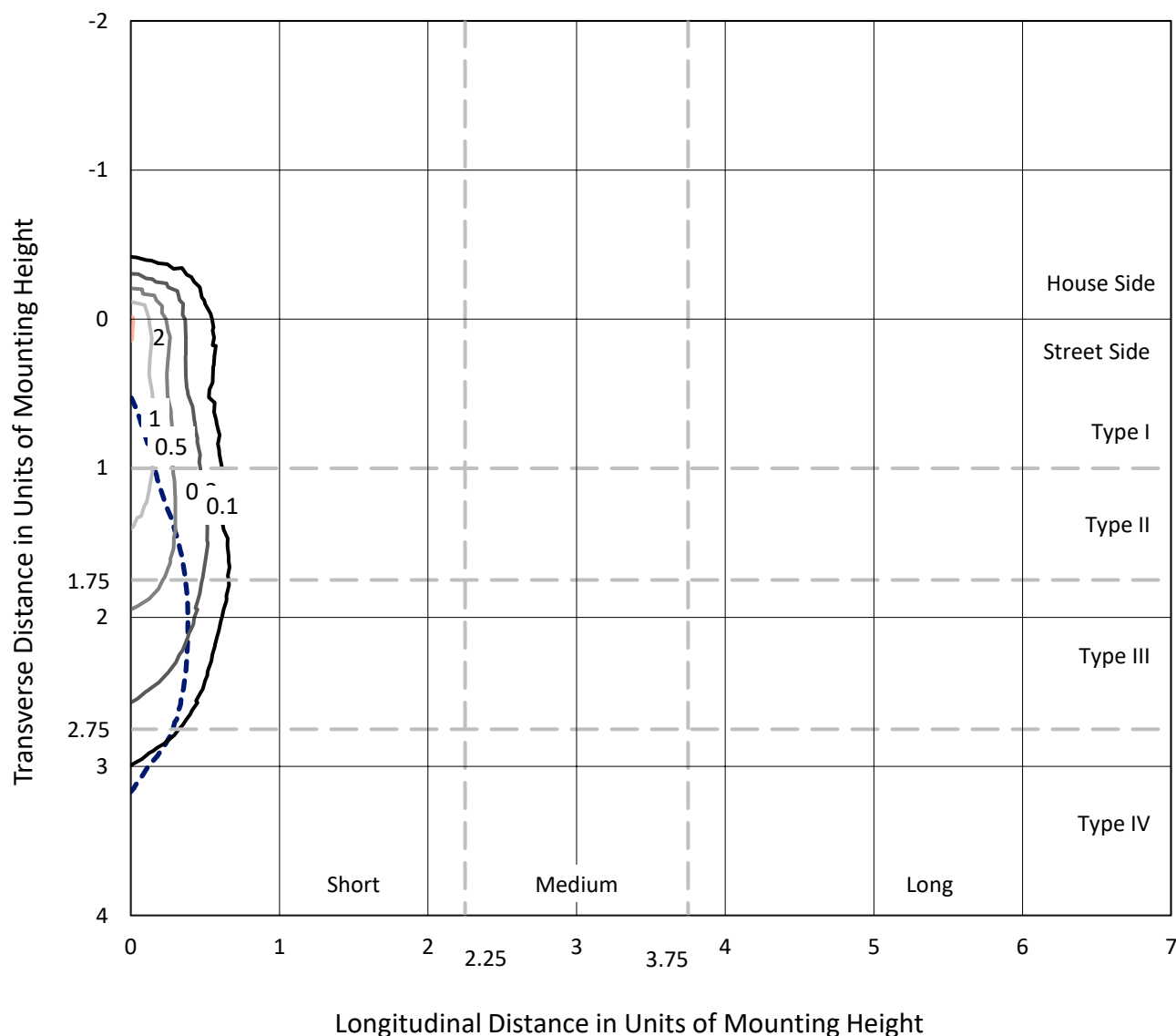
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

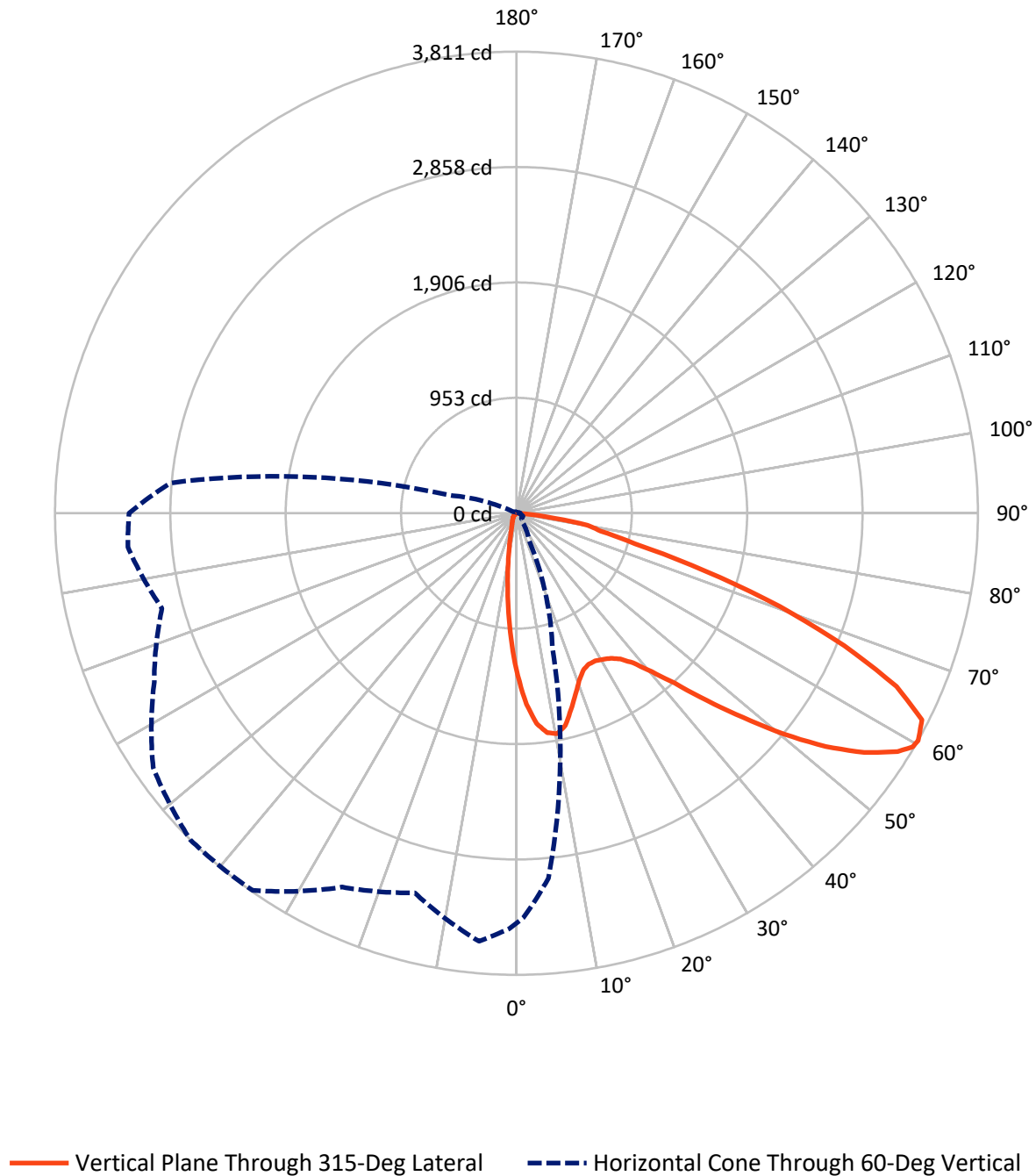


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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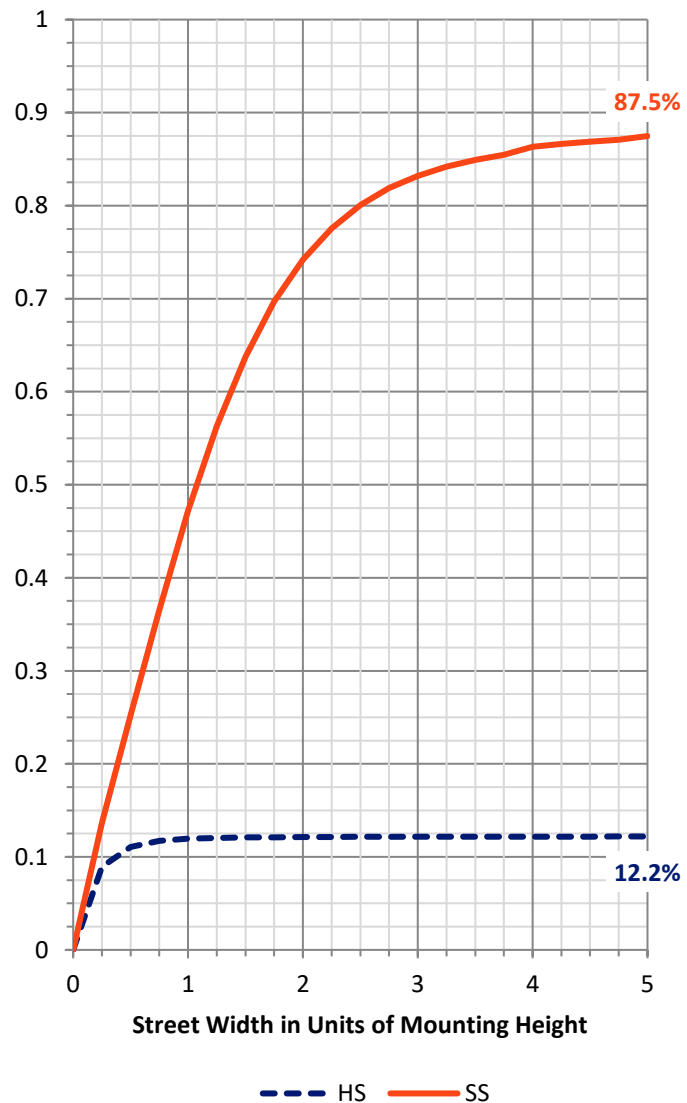
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	500.8	0.0	500.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	3559.2	0.0	3559.2
	% Fixture	87.7	0.0	87.7
Total	Lumens	4060.0	0.0	4060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	2.5
10°-20°	198.2	4.9
20°-30°	290.6	7.2
30°-40°	432.2	10.6
40°-50°	629.0	15.5
50°-60°	907.1	22.3
60°-70°	997.7	24.6
70°-80°	446.9	11.0
80°-90°	58.4	1.4
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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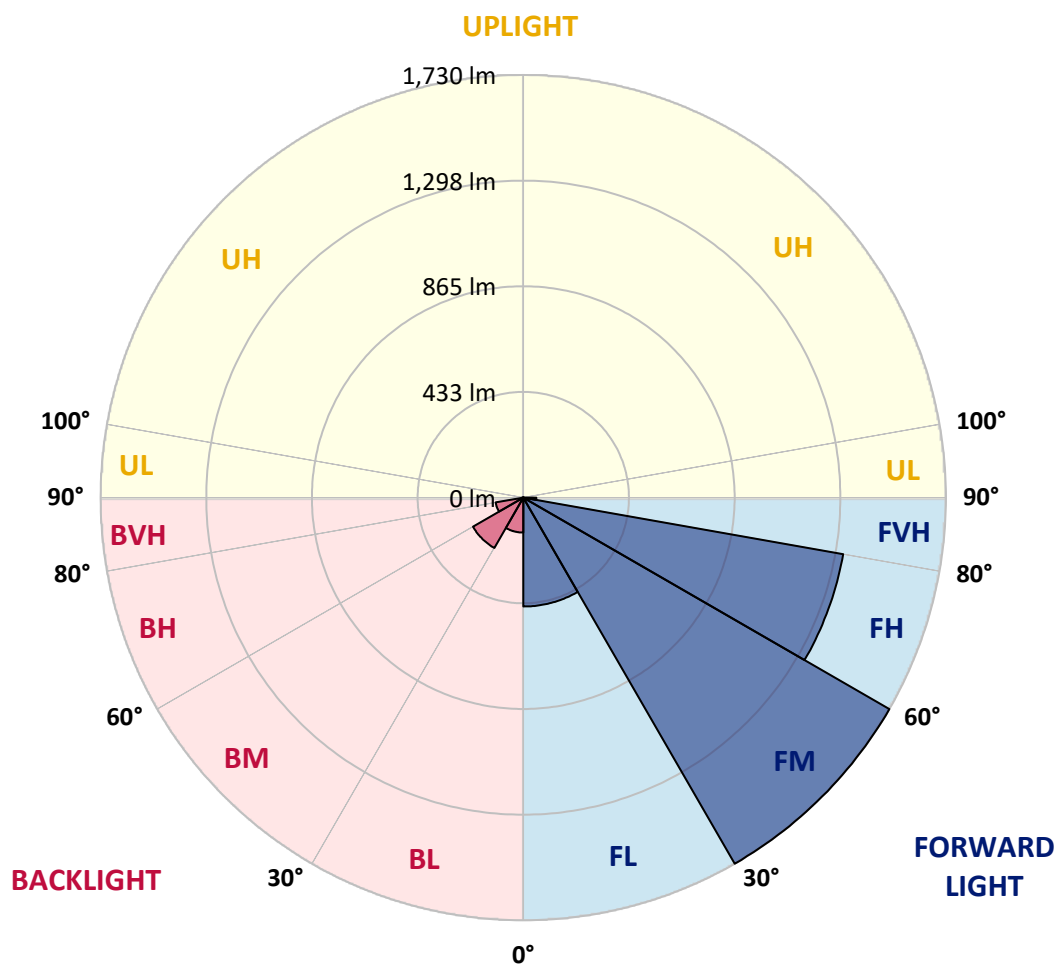
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	445.6	11.0			
FM	(30°-60°)	1730.5	42.6			
FH	(60°-80°)	1329.8	32.8			G1/1800
FVH	(80°-90°)	53.4	1.3			G1/100
BL	(0°-30°)	143.1	3.5	B1/500		
BM	(30°-60°)	237.8	5.9	B1/1000		
BH	(60°-80°)	114.8	2.8	B1/500		G1/500
BVH	(80°-90°)	5.0	0.1			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9
2.5°	1475.2	1468.7	1453.9	1408.9	1369.7	1318.4	1266.6	1225.8	1200.8	1154.9	1133.9
5°	1429.2	1432.3	1389.4	1296.8	1193.7	1123.4	1046.5	985.4	918.2	875.6	830.8
7.5°	1309.2	1303.0	1256.4	1127.4	1002.1	900.3	803.0	724.0	674.3	634.5	601.2
10°	1206.4	1201.8	1142.2	976.2	841.6	765.4	699.6	630.5	577.1	518.8	472.2
12.5°	1141.9	1131.4	1062.9	889.4	779.9	708.9	637.3	565.4	491.6	432.7	376.2
15°	1120.3	1105.2	1028.9	859.5	740.4	650.3	560.5	477.7	392.9	327.8	285.2
17.5°	1159.5	1134.5	1053.3	854.3	693.2	573.7	463.2	355.5	267.3	217.6	191.3
20°	1249.3	1220.6	1115.1	849.0	640.7	487.9	352.1	251.2	184.9	157.7	143.2
22.5°	1382.6	1343.1	1206.4	857.4	592.2	404.3	254.3	177.5	146.9	129.9	119.7
25°	1542.8	1509.8	1322.1	887.0	554.0	338.6	196.6	145.1	123.8	113.3	105.5
27.5°	1718.4	1665.6	1471.8	922.5	519.1	287.6	172.5	129.6	110.2	100.6	96.6
30°	1843.4	1802.4	1597.1	947.2	475.6	249.4	157.7	127.8	110.5	99.1	91.7
32.5°	1966.8	1914.4	1702.0	958.6	443.8	222.8	136.4	111.4	96.9	91.0	83.6
35°	2098.9	2044.0	1806.7	952.4	420.0	205.2	123.8	99.4	83.0	73.1	65.7
37.5°	2232.6	2174.5	1910.7	930.2	405.2	198.1	113.9	94.4	78.4	68.2	60.2
40°	2391.2	2313.7	2008.2	912.0	389.8	194.4	107.4	91.4	75.0	64.2	56.2
42.5°	2520.8	2447.1	2100.5	902.4	379.3	185.8	107.4	88.9	72.8	60.8	52.5
45°	2643.7	2567.1	2200.2	910.1	375.0	175.0	108.6	88.6	71.3	58.3	50.0
47.5°	2746.4	2680.1	2302.6	939.1	369.4	163.3	102.2	92.9	70.4	56.2	47.5
50°	2867.7	2803.5	2438.1	997.8	359.5	151.5	94.1	100.0	70.1	54.3	45.4
52.5°	3038.7	2969.3	2625.1	1064.4	343.8	133.6	86.7	99.1	68.8	51.2	43.2
55°	3247.6	3191.5	2841.8	1144.4	322.2	113.6	75.0	88.0	65.1	46.0	39.5
57.5°	3381.6	3333.7	3004.1	1178.9	289.2	92.9	66.0	73.8	59.6	41.0	35.2
59°	3397.3	3354.1	3038.1	1167.5	267.6	84.9	61.7	63.3	58.0	38.3	32.7
60°	3384.0	3339.3	3024.5	1145.3	247.5	79.3	58.0	56.2	58.3	36.7	30.9
62.5°	3298.9	3222.3	2892.7	1032.6	216.3	72.8	51.5	46.0	51.5	33.0	27.5
65°	3134.4	3019.6	2631.9	874.0	204.0	69.1	43.8	38.6	39.2	29.0	23.8
67.5°	2847.0	2702.3	2284.7	710.1	198.8	69.4	37.0	34.6	30.2	24.7	21.0
70°	2392.7	2248.3	1833.2	584.2	196.3	69.4	31.5	29.6	25.3	20.7	18.2
72.5°	1695.6	1540.0	1236.6	458.9	176.8	69.1	26.9	26.9	20.7	17.3	14.8
75°	958.0	959.2	777.4	324.7	146.9	57.1	21.6	21.3	15.1	13.3	11.1
77.5°	558.3	548.4	524.0	139.5	68.2	25.9	15.1	13.0	10.5	9.6	8.0
80°	287.0	236.1	229.9	50.6	24.4	16.4	10.5	7.4	6.8	6.2	5.6
82.5°	84.9	85.2	75.9	20.4	13.6	10.8	5.2	4.0	3.7	3.4	3.4
85°	5.9	3.7	4.3	6.2	8.3	4.3	0.3	0.9	0.9	1.2	1.5
87.5°	0.6	0.3	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9
2.5°	1110.7	1124.3	1099.0	1099.6	1078.6	1085.4	1060.7	1068.8	1054.3	1065.4	1098.1
5°	835.7	838.8	818.5	812.0	815.1	827.7	832.7	810.1	819.7	800.9	799.6
7.5°	588.9	592.6	580.8	579.3	601.5	596.3	605.8	582.7	560.8	570.3	552.7
10°	457.4	441.9	417.9	411.1	406.8	409.5	409.5	388.6	385.5	377.1	389.8
12.5°	361.1	342.3	319.4	288.6	280.8	280.2	268.8	250.3	244.4	237.3	247.8
15°	262.3	254.6	235.5	218.2	200.6	197.2	178.7	163.6	143.5	140.7	139.8
17.5°	184.6	173.1	172.8	163.0	152.8	146.0	128.7	111.4	103.7	102.8	102.8
20°	138.3	134.3	127.8	126.5	123.4	115.7	100.3	91.0	87.3	87.6	88.9
22.5°	116.4	113.6	107.7	104.9	103.7	96.9	85.5	79.3	77.5	77.5	77.8
25°	104.0	101.5	95.1	90.7	89.2	84.3	75.3	70.7	69.1	69.1	69.1
27.5°	94.7	91.7	84.9	81.2	78.4	72.8	67.3	62.7	61.1	61.1	61.4
30°	88.3	84.9	78.7	73.8	69.4	64.5	59.9	55.9	54.0	53.7	54.0
32.5°	79.6	76.5	70.4	67.3	62.3	56.5	52.8	49.1	47.2	47.5	47.2
35°	62.0	61.1	56.8	57.7	54.9	50.0	46.6	42.6	40.4	40.1	40.7
37.5°	56.5	52.8	47.8	48.1	47.2	45.4	39.8	35.5	33.9	33.9	34.3
40°	52.2	48.5	42.9	40.1	40.4	40.4	34.6	29.9	28.4	28.1	28.7
42.5°	48.5	44.8	38.6	33.9	32.7	34.3	29.3	24.7	23.1	22.5	23.1
45°	46.0	42.0	34.9	29.6	25.9	27.8	24.1	20.4	18.5	18.5	18.2
47.5°	43.5	39.8	32.1	25.6	21.6	20.7	19.8	16.4	14.5	14.2	14.5
50°	41.4	37.7	29.0	22.2	18.2	16.0	16.0	13.0	11.7	11.1	11.4
52.5°	39.2	35.2	26.2	19.8	15.7	13.0	11.4	10.5	9.6	9.3	9.6
55°	36.1	32.1	23.5	17.0	13.6	10.8	9.0	8.6	8.0	7.4	8.0
57.5°	32.4	28.7	20.7	14.5	10.8	8.3	7.4	7.1	6.5	6.2	6.2
59°	30.2	26.9	19.1	12.7	9.6	7.4	6.8	6.5	5.9	5.2	5.6
60°	29.0	26.2	18.2	11.7	8.6	6.8	6.2	5.9	5.2	4.9	5.2
62.5°	25.6	23.5	16.0	9.6	6.8	4.9	4.3	4.6	4.3	4.0	4.3
65°	22.5	20.7	13.6	7.4	5.2	3.4	3.1	4.0	3.7	3.4	3.7
67.5°	20.1	17.9	11.4	5.6	3.7	1.9	2.2	3.4	3.4	3.1	3.4
70°	17.3	15.4	9.3	4.0	1.9	0.9	1.5	2.5	3.1	2.8	3.1
72.5°	14.2	12.0	7.1	2.8	0.9	0.0	0.9	2.2	3.1	2.8	3.1
75°	11.1	9.0	5.2	1.5	0.0	0.0	0.3	1.9	3.1	2.8	3.1
77.5°	8.0	6.5	3.1	0.3	0.0	0.0	0.3	1.9	3.1	2.8	3.1
80°	5.2	4.6	1.2	0.0	0.0	0.0	0.3	1.9	3.1	3.1	3.4
82.5°	3.4	2.5	0.0	0.0	0.0	0.0	0.6	2.5	3.4	3.7	3.7
85°	1.5	0.0	0.0	0.0	0.0	0.0	1.2	3.1	4.0	4.0	4.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	2.2	3.7	4.6	4.6	4.6
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°	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9
2.5°	1103.6	1123.1	1150.5	1192.8	1227.1	1281.1	1322.4	1378.9	1436.0	1453.3	1480.2
5°	812.3	837.3	899.6	956.4	992.2	1106.4	1178.6	1292.5	1394.7	1443.7	1497.1
7.5°	564.2	593.8	641.3	720.6	795.9	888.8	1005.5	1135.7	1285.4	1355.5	1430.8
10°	396.0	433.0	500.0	565.1	659.8	748.1	863.2	1007.0	1172.1	1254.9	1349.3
12.5°	250.0	283.0	371.6	444.7	562.9	665.4	771.6	901.8	1093.1	1178.0	1277.1
15°	142.9	170.7	212.0	305.8	437.0	572.5	704.9	856.1	1052.7	1157.3	1264.4
17.5°	106.5	113.9	132.4	185.5	304.9	463.2	643.5	842.2	1080.2	1203.0	1325.2
20°	89.5	94.4	103.1	124.1	194.4	356.8	583.6	844.7	1169.1	1323.4	1439.4
22.5°	80.2	83.3	90.4	104.0	132.7	259.9	513.5	859.2	1276.8	1471.2	1605.1
25°	70.4	74.4	80.6	92.3	110.5	180.2	444.4	891.6	1427.7	1658.8	1784.8
27.5°	62.7	66.4	72.5	83.3	96.9	137.6	363.9	919.4	1586.9	1847.7	1950.8
30°	54.9	58.6	64.8	73.5	85.8	111.4	277.1	935.7	1741.6	1989.4	2068.7
32.5°	48.5	51.5	57.4	65.1	75.3	94.4	218.5	918.8	1859.8	2118.1	2171.2
35°	42.0	45.7	50.6	57.7	66.7	80.6	181.8	860.1	1961.3	2250.5	2269.6
37.5°	35.2	39.5	44.8	51.2	58.3	74.1	146.0	795.3	2069.9	2415.6	2384.1
40°	29.6	33.6	38.6	45.7	52.2	67.9	112.3	726.2	2187.2	2570.5	2509.1
42.5°	24.1	28.4	34.3	40.7	51.5	59.3	87.0	654.6	2292.4	2705.4	2622.1
45°	19.1	22.8	29.0	37.3	51.2	50.9	67.3	583.9	2371.8	2801.7	2706.3
47.5°	15.1	18.2	24.4	36.4	47.2	43.2	54.0	540.1	2455.1	2888.4	2770.8
50°	12.0	15.1	21.0	38.0	41.4	37.0	45.4	547.2	2535.6	2932.5	2797.3
52.5°	10.2	13.3	18.2	29.9	31.8	32.4	39.8	579.9	2639.6	2979.7	2850.1
55°	9.0	11.7	15.4	21.0	24.7	29.0	36.4	603.7	2778.8	3081.0	2966.5
57.5°	7.1	10.2	13.9	17.9	20.4	25.3	33.6	605.5	2904.7	3210.9	3121.1
59°	6.5	9.3	13.0	17.0	18.2	22.8	31.8	589.8	2909.4	3230.3	3192.1
60°	5.9	9.0	12.3	15.7	17.3	21.6	30.2	571.6	2867.4	3199.5	3221.4
62.5°	4.9	7.7	10.8	12.7	14.8	17.9	26.2	505.5	2664.0	3059.7	3167.1
65°	4.3	6.8	9.3	10.5	12.3	15.4	23.1	404.6	2439.3	2870.2	3011.5
67.5°	4.0	6.2	8.0	9.0	10.8	14.2	20.7	285.8	2148.3	2629.8	2777.9
70°	3.7	5.9	7.1	8.3	9.6	12.0	17.6	166.7	1654.8	2208.2	2364.7
72.5°	3.7	5.6	6.2	7.1	8.3	10.8	16.4	90.1	1131.4	1684.5	1886.6
75°	3.7	5.2	5.6	6.2	7.4	9.9	14.5	47.2	731.4	1170.3	1444.4
77.5°	3.7	4.9	5.6	5.9	7.1	8.6	12.7	29.6	487.3	819.7	976.2
80°	4.0	4.9	5.2	5.9	6.8	8.0	10.5	19.8	286.4	493.2	594.1
82.5°	4.3	4.9	5.6	6.2	7.1	7.7	9.3	12.3	132.1	326.2	369.1
85°	4.6	5.2	5.9	6.5	7.4	7.7	8.6	9.0	21.6	147.2	199.1
87.5°	4.9	5.6	6.2	6.8	8.0	8.0	8.0	8.0	7.4	15.7	40.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9
2.5°	1514.1	1549.0	1573.4	1579.5	1561.9	1553.9	1531.7	1497.1	1476.1	1475.2
5°	1595.6	1677.4	1734.1	1743.7	1709.8	1652.4	1584.2	1496.2	1444.7	1429.2
7.5°	1581.7	1724.9	1816.2	1829.5	1772.4	1662.9	1530.8	1389.1	1332.9	1309.2
10°	1524.6	1699.3	1829.8	1850.8	1774.6	1620.3	1452.4	1294.4	1224.6	1206.4
12.5°	1475.8	1652.4	1768.4	1797.4	1739.7	1585.7	1405.5	1233.6	1158.9	1141.9
15°	1454.5	1596.8	1667.8	1682.6	1673.0	1564.1	1400.5	1224.3	1138.8	1120.3
17.5°	1475.8	1549.6	1558.5	1573.7	1595.0	1561.9	1448.1	1274.6	1182.3	1159.5
20°	1531.7	1508.5	1471.5	1478.0	1526.8	1570.9	1532.6	1386.0	1273.7	1249.3
22.5°	1626.7	1498.4	1414.4	1408.9	1470.6	1600.8	1656.7	1536.9	1406.7	1382.6
25°	1743.4	1524.0	1393.4	1381.4	1448.7	1644.6	1791.6	1721.8	1579.5	1542.8
27.5°	1870.6	1577.1	1393.4	1381.7	1446.8	1683.5	1907.0	1885.4	1758.5	1718.4
30°	1940.3	1620.9	1413.5	1400.2	1469.7	1706.1	1968.7	2030.7	1893.1	1843.4
32.5°	2002.6	1681.7	1452.7	1427.7	1517.5	1739.4	2023.9	2154.2	2000.2	1966.8
35°	2060.1	1746.8	1506.7	1477.7	1580.5	1785.1	2085.0	2283.8	2149.2	2098.9
37.5°	2123.3	1822.4	1590.9	1566.3	1685.7	1874.0	2157.6	2454.2	2295.8	2232.6
40°	2192.1	1910.1	1729.5	1719.0	1853.0	1974.6	2249.2	2635.9	2463.1	2391.2
42.5°	2262.2	2011.0	1899.3	1916.5	2042.5	2115.6	2343.4	2775.7	2600.1	2520.8
45°	2325.8	2140.0	2119.9	2205.4	2263.4	2253.2	2413.1	2874.2	2719.6	2643.7
47.5°	2406.0	2327.9	2386.9	2518.7	2520.2	2402.9	2465.9	2954.7	2822.3	2746.4
50°	2495.8	2549.8	2731.6	2865.9	2829.8	2550.1	2527.6	3050.1	2928.5	2867.7
52.5°	2599.8	2798.3	3050.1	3199.2	3114.9	2710.6	2630.4	3153.2	3097.0	3038.7
55°	2720.8	2967.7	3367.7	3486.5	3401.6	2910.0	2786.5	3293.0	3287.4	3247.6
57.5°	2857.5	3146.7	3551.6	3712.4	3636.8	3143.9	3004.7	3424.8	3403.8	3381.6
59°	2965.5	3238.7	3632.8	3799.4	3753.8	3307.8	3151.3	3506.9	3430.6	3397.3
60°	3031.0	3301.0	3662.7	3811.2	3800.7	3405.3	3244.2	3547.0	3430.3	3384.0
62.5°	3225.1	3410.0	3651.3	3759.0	3800.1	3592.4	3516.7	3591.1	3366.8	3298.9
65°	3294.2	3373.9	3462.1	3448.8	3484.0	3582.8	3690.8	3542.7	3231.0	3134.4
67.5°	3159.7	2977.9	3009.1	2920.5	2903.2	3185.3	3620.1	3305.6	2965.2	2847.0
70°	2663.4	2281.3	2265.6	2306.3	2194.6	2578.8	3250.7	2849.2	2526.7	2392.7
72.5°	2096.5	1612.2	1479.5	1629.5	1626.1	1967.5	2700.4	2021.8	1707.0	1695.6
75°	1648.7	1122.5	985.1	1009.5	1056.4	1424.3	2150.8	1283.9	1051.2	958.0
77.5°	1106.7	795.3	741.9	712.0	762.6	914.4	1360.7	696.3	589.5	558.3
80°	637.9	577.7	656.1	595.6	622.8	576.2	676.8	319.4	265.1	287.0
82.5°	415.1	329.0	350.6	260.5	356.1	359.2	217.3	94.4	79.9	84.9
85°	259.6	154.3	86.7	61.7	122.8	225.9	67.9	5.9	6.8	5.9
87.5°	67.3	25.6	10.8	16.0	19.8	17.6	15.7	0.9	0.3	0.6
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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