

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: P324285

Luminaire Tested: **GLEON-SA1C-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1C-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 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: 4037 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 59
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

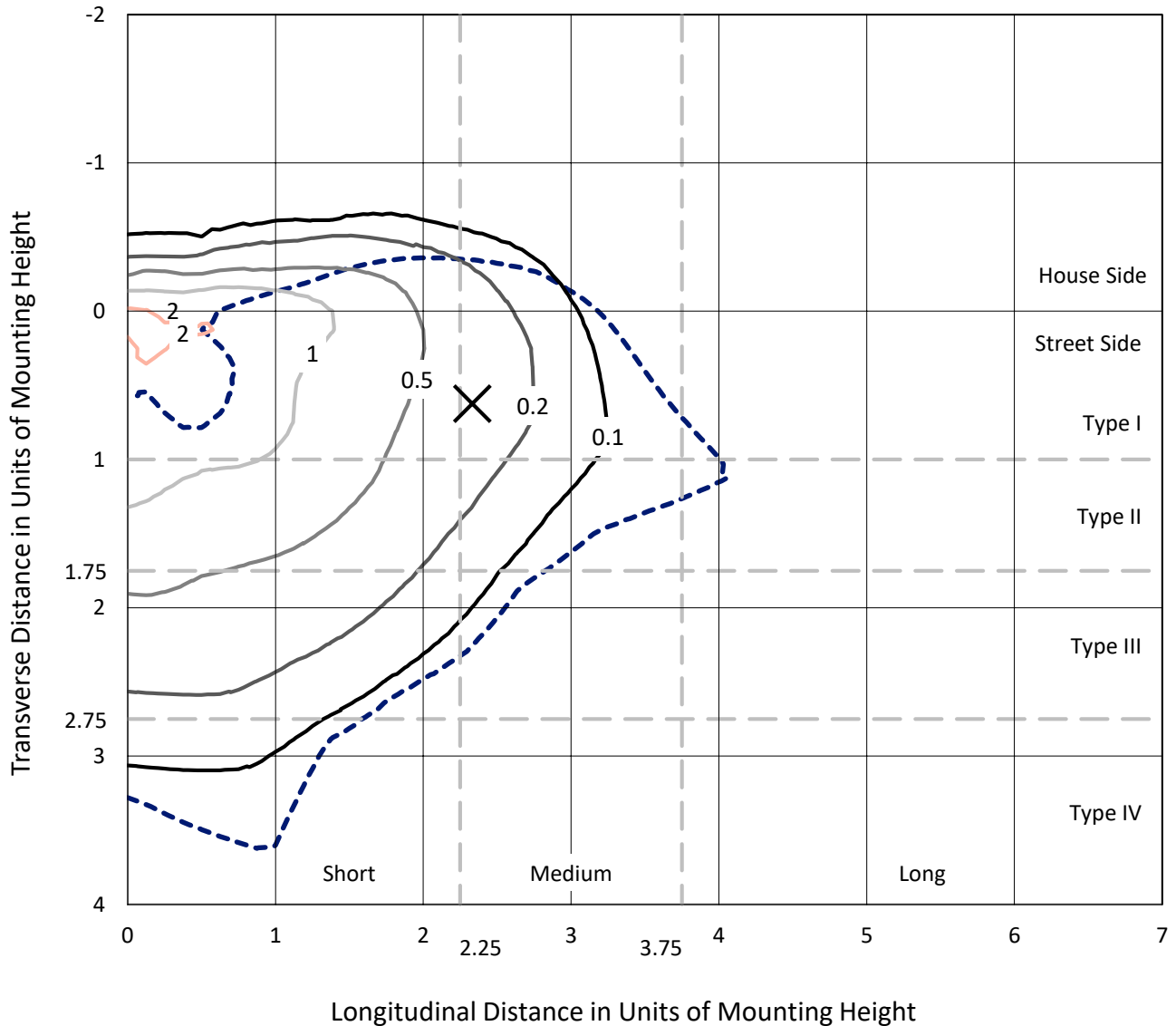




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Iso-Footcandle Lines of Horizontal Illumination

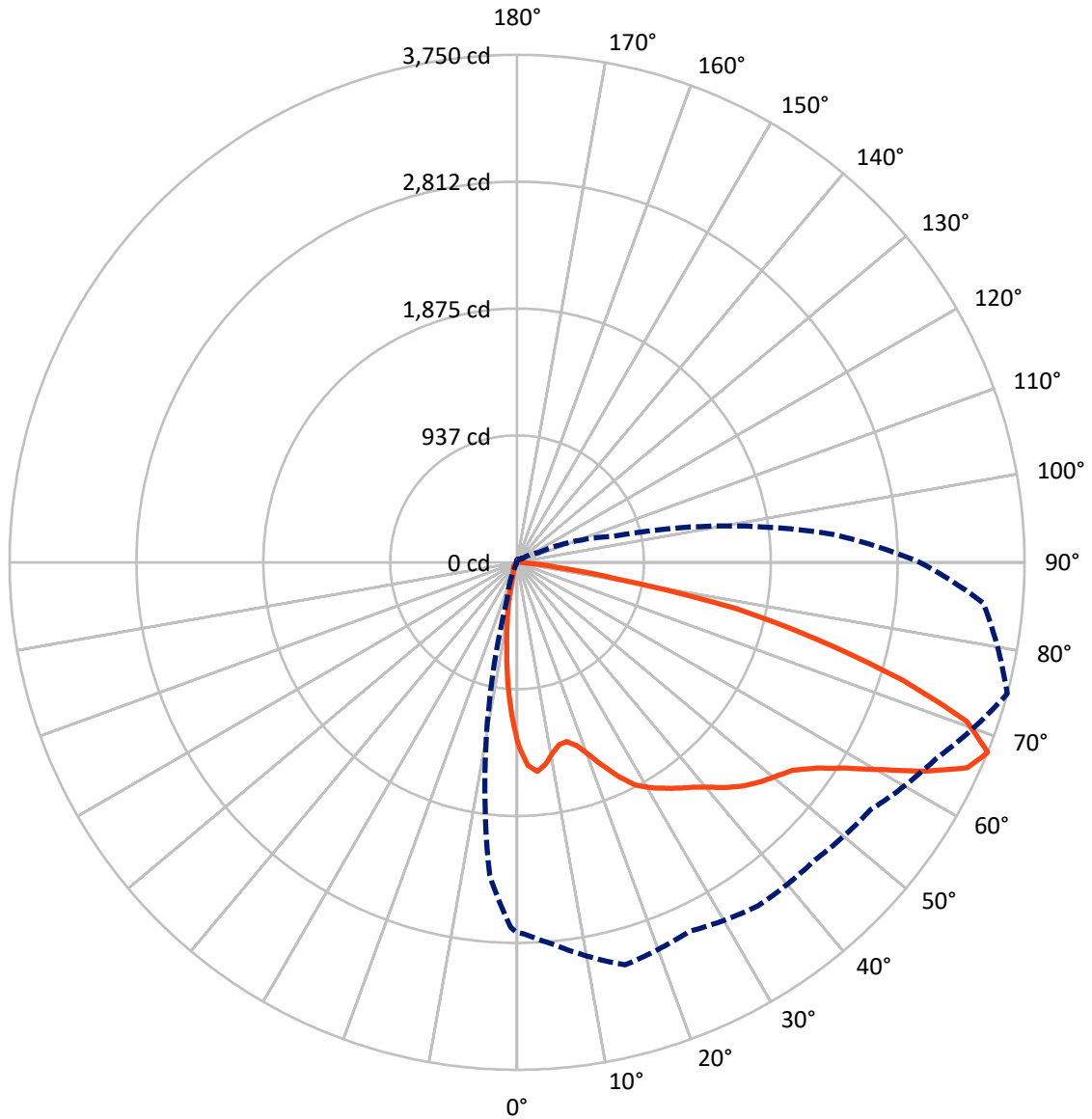
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	605.8	0.0	605.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	3431.2	0.0	3431.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	4037.0	0.0	4037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	2.5
10°-20°	202.3	5.0
20°-30°	286.2	7.1
30°-40°	420.8	10.4
40°-50°	604.8	15.0
50°-60°	851.3	21.1
60°-70°	994.3	24.6
70°-80°	507.3	12.6
80°-90°	67.4	1.7
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°	4037.0	100.0
0°-180°	4037.0	100.0

Coefficient of Utilization

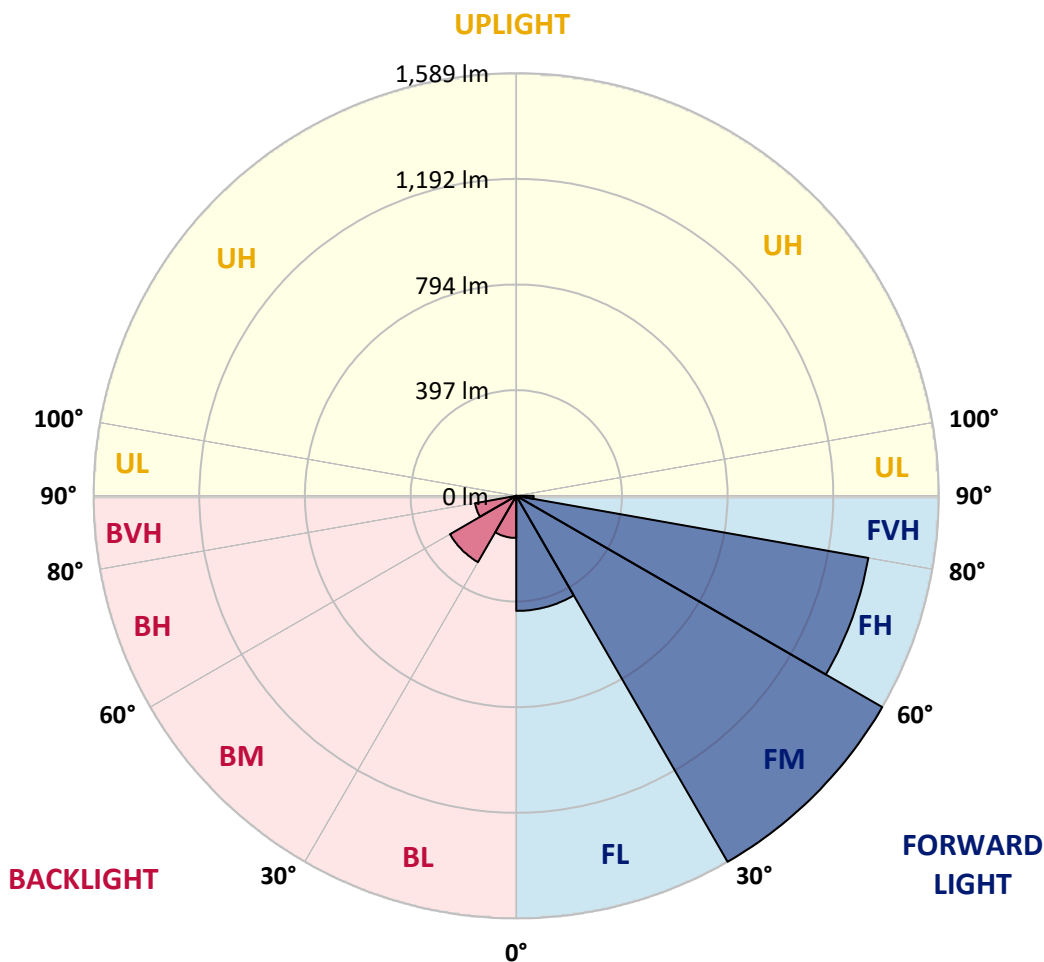


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	432.8	10.7			
FM (30°-60°)	1588.9	39.4			
FH (60°-80°)	1344.2	33.3			G1/1800
FVH (80°-90°)	65.3	1.6			G1/100
BL (0°-30°)	158.4	3.9	B1/500		
BM (30°-60°)	288.0	7.1	B1/1000		
BH (60°-80°)	157.4	3.9	B1/500		G1/500
BVH (80°-90°)	2.0	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3
2.5°	1468.1	1470.4	1482.3	1509.8	1539.8	1542.1	1562.4	1541.6	1534.5	1500.8	1466.0
5°	1479.2	1488.0	1528.8	1609.6	1679.8	1702.4	1718.5	1677.5	1634.5	1552.3	1464.5
7.5°	1389.9	1404.6	1468.7	1620.5	1746.0	1801.5	1812.0	1747.9	1642.5	1507.1	1375.2
10°	1275.6	1292.4	1369.6	1556.3	1728.6	1823.6	1838.2	1754.2	1602.8	1434.1	1278.6
12.5°	1183.0	1202.7	1281.7	1484.0	1668.7	1773.9	1802.6	1733.0	1568.3	1382.3	1212.6
15°	1140.3	1162.9	1245.9	1437.3	1602.4	1685.2	1708.9	1678.9	1549.2	1374.0	1197.3
17.5°	1164.8	1189.3	1275.0	1441.4	1540.0	1575.4	1594.5	1606.8	1549.2	1423.6	1242.1
20°	1265.2	1291.6	1382.3	1482.1	1488.4	1475.2	1495.7	1538.7	1567.2	1517.7	1349.6
22.5°	1404.1	1435.0	1537.4	1551.9	1463.2	1413.2	1415.9	1483.4	1599.9	1637.0	1498.7
25°	1573.3	1611.2	1715.2	1655.9	1473.7	1376.3	1375.4	1437.9	1631.8	1756.5	1664.9
27.5°	1741.4	1783.1	1874.5	1782.9	1517.1	1369.6	1367.7	1424.1	1663.0	1862.8	1846.4
30°	1882.4	1922.9	2001.7	1874.9	1563.9	1385.3	1376.1	1438.9	1681.6	1931.9	1978.7
32.5°	1997.1	2029.6	2093.3	1938.2	1614.0	1415.7	1395.8	1478.3	1713.1	1990.2	2100.4
35°	2123.3	2157.5	2183.0	1998.4	1670.3	1459.5	1431.0	1540.8	1761.7	2049.5	2233.7
37.5°	2267.3	2301.4	2298.3	2053.5	1741.6	1532.0	1513.8	1639.9	1837.2	2108.2	2382.4
40°	2408.3	2443.1	2418.2	2113.7	1825.4	1651.5	1638.1	1788.6	1938.4	2183.4	2556.8
42.5°	2540.2	2577.9	2524.7	2170.7	1925.2	1802.2	1825.2	1980.3	2065.0	2275.9	2707.2
45°	2646.5	2685.0	2614.0	2226.2	2030.4	1985.0	2054.1	2192.5	2217.2	2354.1	2808.7
47.5°	2723.8	2760.1	2676.0	2281.7	2165.0	2208.6	2328.9	2415.1	2354.7	2422.0	2880.8
50°	2773.1	2801.4	2694.2	2351.1	2341.7	2469.5	2615.2	2657.2	2484.2	2483.2	2968.4
52.5°	2804.5	2817.3	2707.5	2423.6	2526.1	2753.4	2895.5	2908.7	2617.5	2550.5	3086.4
55°	2912.5	2922.9	2802.4	2511.3	2678.5	3002.2	3149.1	3136.9	2768.4	2682.3	3225.6
57.5°	3096.9	3107.8	2998.4	2637.5	2801.8	3156.0	3332.9	3354.9	2945.2	2867.4	3374.8
60°	3189.5	3209.7	3170.7	2797.4	2921.3	3254.3	3458.1	3528.3	3166.3	3111.4	3519.3
62.5°	3105.5	3135.0	3191.6	2974.7	3040.1	3308.4	3497.2	3590.5	3392.7	3395.8	3608.5
65°	2938.0	2961.5	3057.5	3071.8	3108.9	3301.7	3400.8	3503.7	3531.4	3657.0	3603.7
67.5°	2735.7	2744.5	2825.9	3079.5	3009.1	3100.5	3111.2	3187.4	3421.8	3749.6	3458.9
70°	2444.4	2449.2	2520.3	2823.4	2585.9	2606.0	2590.1	2605.6	2941.8	3524.1	3093.5
72.5°	1967.3	1979.3	2080.5	2344.8	1883.9	1825.9	1950.6	1943.7	2265.6	2977.4	2297.5
75°	1448.4	1469.3	1622.1	1888.7	1322.2	1196.0	1287.0	1311.3	1610.6	2303.1	1436.8
77.5°	1014.1	1029.6	1177.6	1388.4	957.0	855.2	822.3	851.2	1063.1	1666.1	723.8
80°	584.2	590.0	684.4	801.7	644.9	737.8	668.4	688.3	637.0	741.2	311.3
82.5°	382.3	383.2	420.1	477.1	401.6	466.6	345.4	441.6	391.8	297.8	101.4
85°	206.5	207.7	243.6	338.7	227.4	128.5	75.5	155.1	242.3	68.3	27.7
87.5°	22.8	20.8	73.4	123.2	63.1	11.7	4.0	17.4	38.8	4.4	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°	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3
2.5°	1448.2	1432.4	1392.8	1350.9	1317.2	1285.7	1253.9	1215.1	1185.1	1179.0	1169.0
5°	1417.3	1367.0	1284.0	1200.6	1133.5	1048.7	995.0	953.1	912.2	909.7	901.5
7.5°	1309.0	1242.9	1126.0	1010.7	916.2	835.5	754.0	699.5	656.7	641.6	632.6
10°	1205.0	1130.6	984.7	853.1	768.8	697.4	640.1	583.1	531.4	495.9	479.8
12.5°	1132.3	1050.1	889.3	775.9	715.4	647.7	577.7	506.6	447.1	404.3	378.1
15°	1104.2	1016.4	857.3	745.3	670.7	585.0	495.5	414.2	348.2	309.4	285.9
17.5°	1137.7	1035.6	854.8	708.0	603.7	497.2	398.3	302.3	240.2	210.7	195.6
20°	1222.6	1096.4	853.9	662.3	524.2	393.2	269.8	198.9	161.2	144.8	137.7
22.5°	1342.7	1174.0	861.5	617.1	441.4	280.9	186.3	146.1	126.8	118.0	114.0
25°	1497.2	1283.0	883.1	576.2	363.5	209.6	145.1	122.4	108.8	101.9	99.1
27.5°	1661.9	1408.5	916.8	540.6	300.2	167.1	124.3	104.8	95.0	90.3	87.6
30°	1797.6	1553.8	950.8	501.0	254.3	145.7	113.8	95.6	84.3	81.3	78.8
32.5°	1916.4	1663.8	974.9	465.3	224.3	129.5	102.9	85.5	77.8	71.9	69.2
35°	2039.4	1755.4	974.2	440.2	203.7	117.2	93.7	76.5	67.3	60.4	58.3
37.5°	2172.5	1858.8	957.5	418.8	194.7	107.5	88.5	71.7	62.5	55.7	53.0
40°	2328.3	1967.5	940.5	398.7	192.2	99.6	84.9	67.9	58.1	51.4	48.8
42.5°	2480.2	2065.4	925.6	383.8	181.5	99.4	81.7	65.0	54.7	48.2	45.1
45°	2601.6	2156.6	922.7	374.8	170.2	102.9	79.9	63.1	52.0	45.5	42.6
47.5°	2702.6	2255.6	941.1	368.5	159.5	93.9	84.1	61.8	49.5	43.2	40.0
50°	2822.7	2377.3	984.3	358.2	148.2	84.5	96.4	62.2	47.4	40.9	37.5
52.5°	2990.2	2545.6	1047.8	340.8	132.7	75.9	94.9	62.5	45.1	38.4	35.0
55°	3178.0	2755.7	1116.1	311.9	111.1	64.6	81.3	59.9	40.7	35.8	32.5
57.5°	3375.3	2946.4	1156.6	277.5	88.4	55.8	65.0	54.5	36.0	32.1	30.0
60°	3406.3	3018.9	1138.1	235.2	70.2	48.6	48.2	55.5	32.1	28.3	26.8
62.5°	3329.3	2927.8	1048.4	197.5	58.7	42.6	39.6	48.4	29.1	25.2	23.7
65°	3181.0	2681.7	903.0	178.0	54.5	36.5	32.9	34.0	25.4	22.0	20.7
67.5°	2974.9	2353.2	741.4	167.0	53.9	31.4	28.1	25.8	22.0	19.1	18.0
70°	2553.4	1960.4	591.5	160.8	52.4	26.4	23.7	21.0	18.4	16.3	15.3
72.5°	1879.3	1389.1	460.1	154.1	52.8	21.0	20.7	17.4	14.7	12.6	12.2
75°	1085.8	793.6	301.8	124.9	50.3	16.3	17.2	12.2	10.3	8.8	8.8
77.5°	578.7	484.0	114.9	52.0	18.4	10.3	9.8	7.3	6.5	5.4	5.2
80°	252.2	213.0	34.6	14.5	10.1	5.5	3.6	3.3	2.9	2.3	2.1
82.5°	89.3	77.1	11.3	7.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.3	14.5	0.0	1.7	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°	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3
2.5°	1148.8	1144.6	1119.7	1120.7	1125.1	1131.4	1116.4	1123.3	1141.9	1159.7	1166.4
5°	888.3	889.3	874.1	883.5	891.9	897.7	873.6	874.0	888.7	908.8	919.3
7.5°	625.9	624.4	625.2	647.5	663.4	651.9	660.9	629.7	631.7	646.0	635.3
10°	465.3	444.2	432.4	449.2	466.6	460.3	444.8	434.7	441.8	457.6	456.5
12.5°	365.6	335.4	317.6	305.6	319.9	308.1	307.7	298.9	289.3	291.1	316.5
15°	275.0	253.0	232.0	212.7	212.3	208.3	187.8	164.8	162.9	164.1	177.3
17.5°	189.1	181.7	173.1	156.4	152.0	135.2	115.3	106.1	101.5	103.7	108.0
20°	132.9	130.0	131.0	122.0	115.7	99.6	88.0	84.3	83.6	85.7	87.8
22.5°	110.2	105.0	104.4	100.4	94.1	82.4	76.1	74.0	73.1	75.0	76.5
25°	96.4	91.2	89.1	86.6	79.9	71.9	68.1	66.2	65.2	66.4	67.3
27.5°	84.9	80.1	78.2	76.5	70.0	64.3	61.2	59.5	58.7	59.1	60.0
30°	76.3	72.1	69.6	67.5	62.0	57.9	55.3	53.5	52.8	52.8	53.7
32.5°	67.3	65.0	62.7	60.0	54.9	52.2	49.5	47.6	46.9	47.0	47.8
35°	56.0	55.3	55.8	53.4	49.0	46.7	44.0	41.9	41.3	41.5	42.3
37.5°	49.7	46.3	48.4	47.0	44.6	41.5	38.1	36.1	35.2	35.8	36.1
40°	45.7	41.5	40.0	41.3	40.9	36.0	32.9	31.0	30.2	30.4	30.8
42.5°	42.3	37.3	33.8	33.7	36.0	31.4	28.1	26.4	25.4	25.4	25.8
45°	39.0	33.7	29.5	26.2	30.2	26.6	23.5	22.0	20.8	20.8	21.0
47.5°	36.5	30.6	25.6	21.4	22.8	21.8	19.3	17.8	16.6	16.6	16.8
50°	34.2	27.5	22.2	18.0	17.0	18.0	15.7	14.0	13.2	13.0	13.4
52.5°	31.7	24.5	18.9	15.3	13.4	13.6	12.2	11.1	10.1	10.1	10.5
55°	29.3	22.0	16.4	13.0	11.1	10.1	9.8	9.0	8.2	8.2	8.6
57.5°	26.8	19.3	14.0	10.7	8.8	8.0	8.0	7.5	6.9	6.9	7.3
60°	24.5	16.6	11.5	8.8	6.9	6.7	6.9	6.3	5.9	5.9	6.3
62.5°	21.8	14.2	9.4	7.3	5.5	5.4	5.9	5.5	5.2	5.2	5.5
65°	18.6	12.0	7.5	5.5	4.2	4.2	5.0	4.6	4.2	4.2	4.6
67.5°	15.7	10.1	5.7	4.0	3.1	3.3	4.2	3.8	3.6	3.6	4.0
70°	13.0	7.8	4.0	2.5	1.7	2.5	3.3	3.3	3.3	3.3	3.6
72.5°	9.8	5.4	2.3	1.0	0.8	1.7	2.7	3.1	2.9	2.9	3.4
75°	6.3	3.1	0.8	0.0	0.0	1.0	2.1	2.5	2.5	2.3	2.9
77.5°	3.6	1.0	0.0	0.0	0.0	0.0	1.3	1.1	1.0	0.8	1.3
80°	1.0	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°	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3	1354.3
2.5°	1193.3	1215.9	1247.6	1281.3	1333.1	1374.2	1414.6	1449.2	1462.6	1468.1
5°	944.5	977.6	1024.1	1083.7	1177.3	1261.4	1346.7	1432.6	1469.9	1479.2
7.5°	677.7	720.0	779.1	853.9	963.5	1072.5	1191.6	1317.6	1375.4	1389.9
10°	501.6	553.3	620.9	699.7	804.3	916.4	1046.3	1190.3	1256.2	1275.6
12.5°	355.9	425.7	516.3	612.2	702.8	802.8	934.2	1092.9	1162.2	1183.0
15°	209.0	276.5	383.8	512.1	628.2	729.6	863.1	1043.0	1119.3	1140.3
17.5°	119.9	153.6	234.6	377.7	535.3	675.6	840.7	1055.4	1145.3	1164.8
20°	91.6	102.3	135.2	243.3	426.7	622.7	840.7	1125.8	1236.5	1265.2
22.5°	80.1	88.0	101.4	145.1	314.0	565.9	850.4	1227.6	1372.3	1404.1
25°	71.1	78.2	89.7	109.2	214.2	498.4	873.6	1352.4	1532.2	1573.3
27.5°	63.7	70.4	80.7	95.6	146.5	416.9	904.7	1498.9	1708.5	1741.4
30°	57.0	63.3	72.7	83.2	113.0	324.5	931.3	1637.0	1847.0	1882.4
32.5°	50.7	56.4	64.8	72.7	92.6	240.0	934.2	1746.4	1961.9	1997.1
35°	44.7	49.9	57.6	63.7	76.7	189.5	889.6	1841.2	2076.8	2123.3
37.5°	39.0	44.0	50.7	55.3	67.5	154.5	821.6	1947.0	2224.3	2267.3
40°	33.7	38.1	44.9	48.0	63.9	118.8	747.5	2057.9	2368.9	2408.3
42.5°	28.7	32.9	39.6	45.5	56.0	88.7	667.6	2161.9	2498.9	2540.2
45°	23.9	28.3	35.0	48.2	46.5	66.4	582.1	2231.0	2601.6	2646.5
47.5°	19.3	24.3	33.5	45.9	37.1	48.8	514.4	2296.4	2679.4	2723.8
50°	15.5	20.5	37.7	40.9	30.4	37.3	486.1	2354.9	2730.5	2773.1
52.5°	12.6	17.2	35.6	31.4	25.4	30.8	501.4	2449.8	2777.7	2804.5
55°	10.5	13.6	21.4	21.8	21.6	26.2	520.4	2585.9	2899.9	2912.5
57.5°	9.2	10.9	14.9	16.8	18.2	23.3	520.7	2781.4	3089.1	3096.9
60°	7.8	9.6	12.4	13.6	15.7	20.8	501.8	2849.6	3163.5	3189.5
62.5°	6.9	8.4	10.3	11.3	13.2	18.7	457.4	2750.8	3061.3	3105.5
65°	6.1	7.6	8.6	9.6	11.7	16.8	384.4	2553.0	2891.9	2938.0
67.5°	5.4	6.7	7.6	8.6	10.5	14.9	283.0	2323.3	2697.4	2735.7
70°	4.8	5.9	6.9	7.6	9.2	12.6	171.7	1971.5	2428.5	2444.4
72.5°	4.6	5.4	6.3	6.9	8.0	11.1	87.0	1448.8	1941.4	1967.3
75°	4.0	4.8	5.7	6.1	7.1	9.6	35.4	951.6	1406.9	1448.4
77.5°	3.3	4.4	5.2	5.5	6.1	7.8	18.0	608.1	987.4	1014.1
80°	1.1	3.3	4.4	4.6	5.2	5.7	11.9	332.9	572.8	584.2
82.5°	0.0	2.1	3.4	3.3	3.6	4.4	7.6	158.3	378.1	382.3
85°	0.0	1.0	2.7	2.1	1.5	3.1	2.7	34.6	198.3	206.5
87.5°	0.0	0.0	0.2	1.0	0.8	1.1	0.4	0.2	18.0	22.8
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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