

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: P193929

Luminaire Tested: **GLEON-AF-01-LED-E1-T2R-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193929  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-01-LED-E1-T2R-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3491 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 34  
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: 25 FT

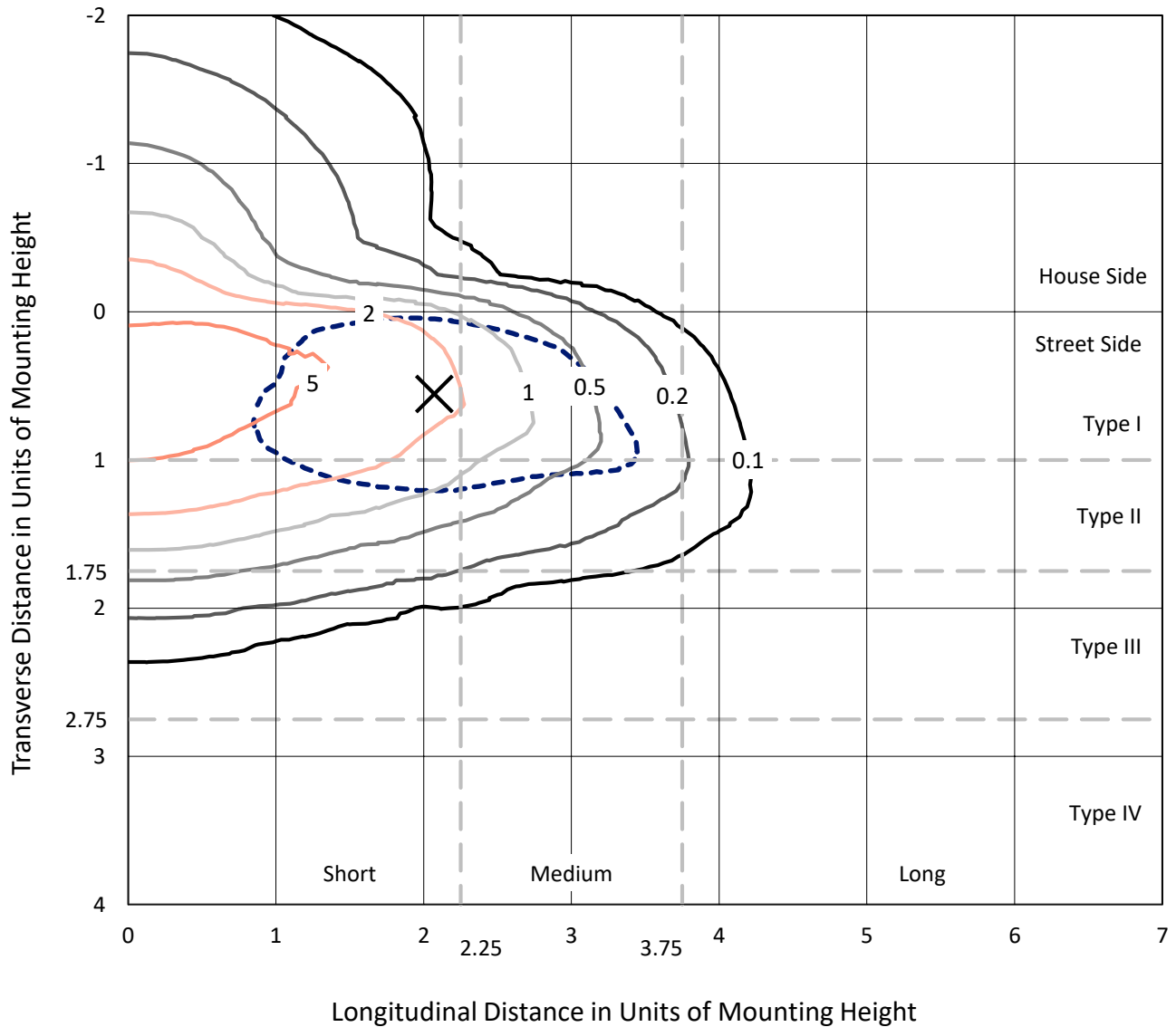


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

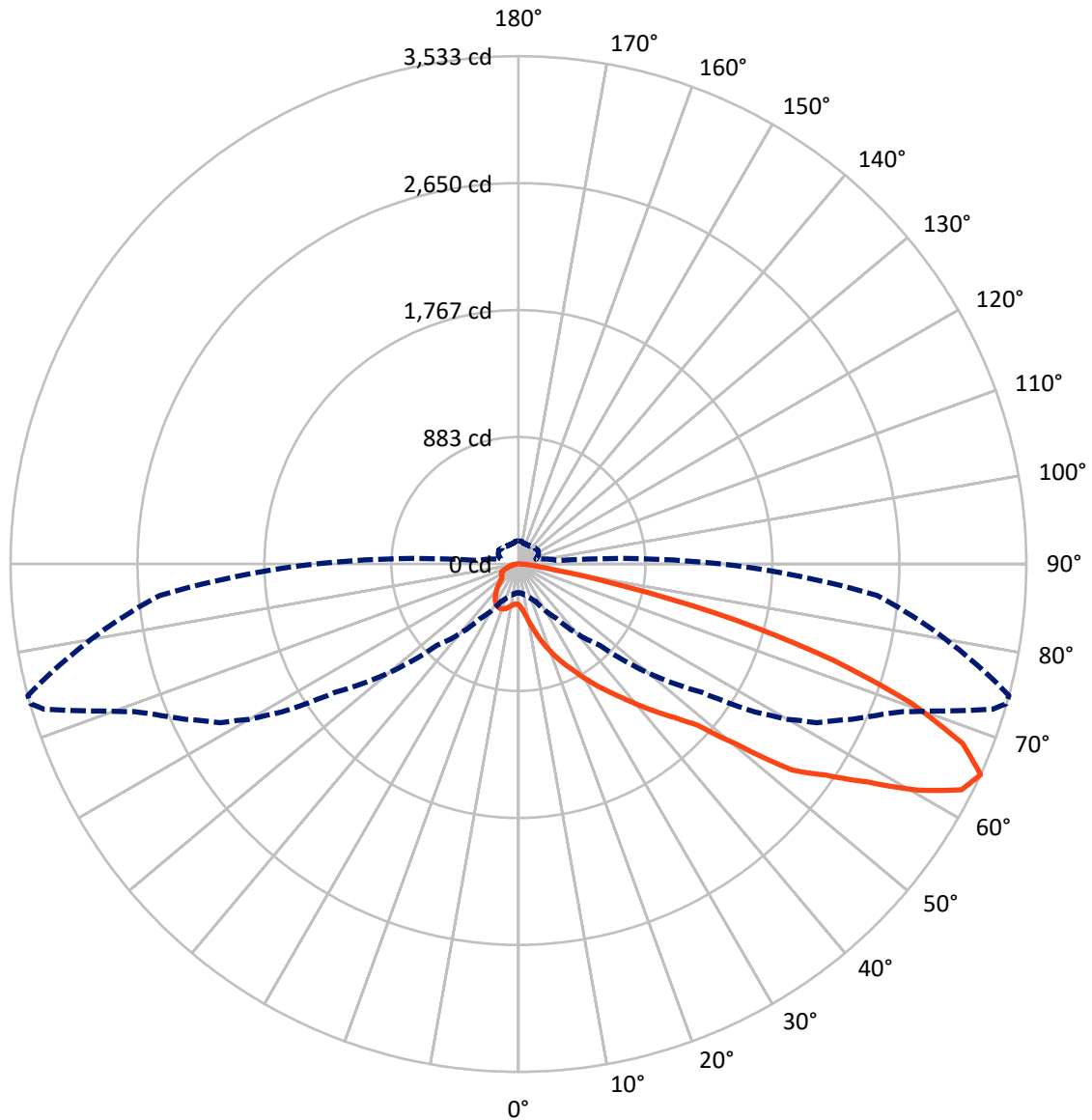


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	538.2	0.0	538.2
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	2952.8	0.0	2952.8
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	3491.0	0.0	3491.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.1	1.0
10°-20°	137.0	3.9
20°-30°	281.1	8.1
30°-40°	473.0	13.5
40°-50°	653.5	18.7
50°-60°	815.8	23.4
60°-70°	734.1	21.0
70°-80°	307.7	8.8
80°-90°	53.8	1.5
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°	3491.0	100.0
0°-180°	3491.0	100.0



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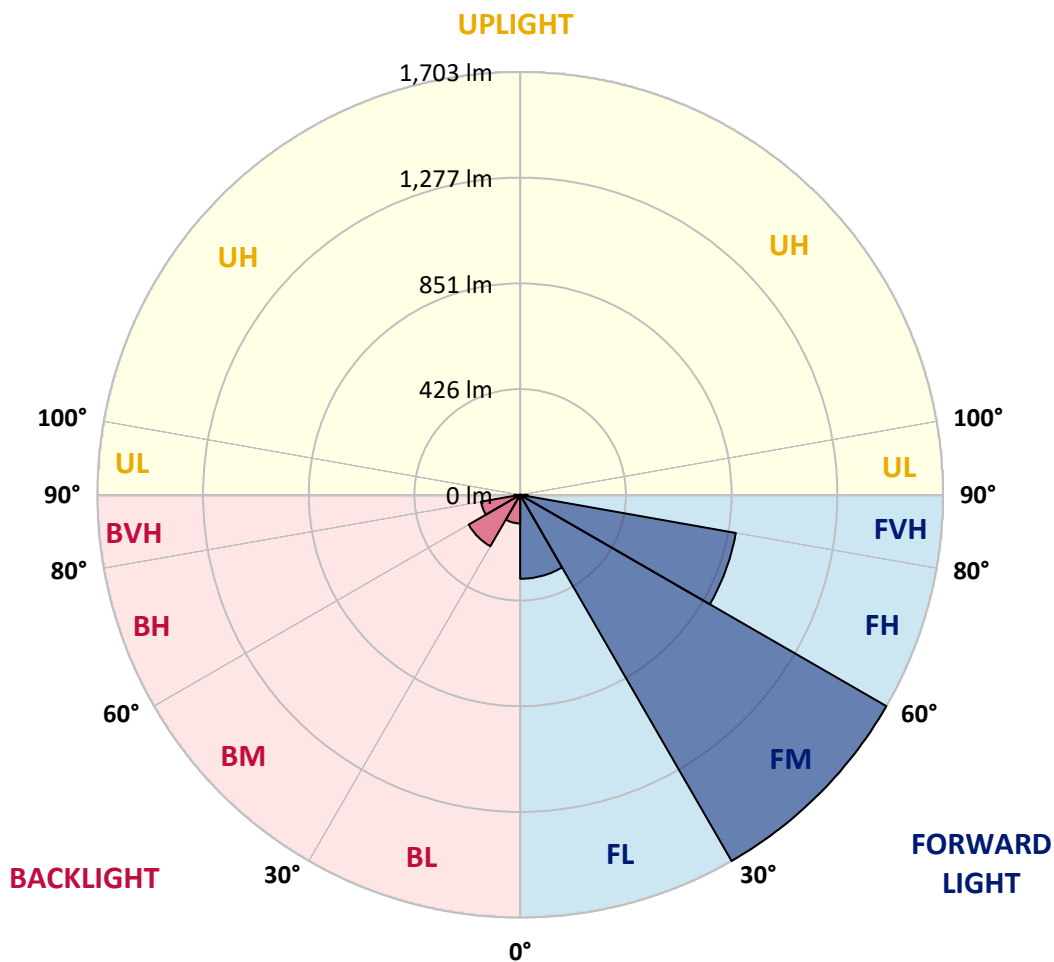
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	338.1	9.7			
FM	(30°-60°)	1702.6	48.8			
FH	(60°-80°)	881.8	25.3			G1/1800
FVH	(80°-90°)	30.2	0.9			G1/100
BL	(0°-30°)	115.1	3.3	B1/500		
BM	(30°-60°)	239.6	6.9	B1/1000		
BH	(60°-80°)	160.0	4.6	B1/500		G1/500
BVH	(80°-90°)	23.5	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	283.7	283.7	283.7	283.7	283.7	283.7	283.7	283.7	283.7	283.7	283.7
2.5°	360.2	356.2	357.2	350.6	342.5	332.0	320.2	320.1	320.2	319.1	314.8
5°	499.5	494.7	492.9	478.0	456.2	425.2	391.4	387.8	386.3	382.5	373.8
7.5°	601.1	598.5	595.7	584.4	564.6	529.9	484.6	476.9	469.4	467.6	457.7
10°	666.7	666.1	660.1	657.1	644.8	614.7	570.6	563.1	555.0	552.2	541.8
12.5°	718.6	718.4	715.6	716.5	705.7	683.9	645.9	639.1	633.2	624.6	617.2
15°	754.5	754.6	758.8	763.4	761.7	747.0	711.3	708.4	703.2	697.3	688.5
17.5°	783.9	784.7	789.0	797.4	806.5	805.4	777.1	774.6	770.2	762.1	757.4
20°	850.3	853.4	845.2	845.2	846.2	850.6	837.1	835.1	828.8	824.5	820.9
22.5°	962.5	966.1	947.5	928.5	909.8	896.2	882.7	885.2	880.9	877.9	875.8
25°	1108.2	1111.0	1080.8	1048.8	1010.7	961.2	927.6	926.1	923.8	922.0	921.0
27.5°	1245.4	1246.5	1218.0	1171.0	1126.9	1055.7	973.2	971.4	968.6	965.1	962.2
30°	1362.7	1362.4	1333.0	1288.2	1240.9	1162.1	1042.5	1036.9	1028.6	1019.2	1011.9
32.5°	1464.3	1463.8	1431.6	1385.2	1335.6	1267.5	1137.3	1125.8	1112.9	1094.5	1083.5
35°	1544.3	1544.0	1513.6	1465.1	1408.3	1366.8	1246.0	1231.8	1215.5	1190.9	1173.8
37.5°	1574.5	1574.5	1557.5	1524.5	1474.2	1445.8	1366.8	1349.6	1332.1	1304.2	1285.0
40°	1556.9	1557.2	1560.8	1554.7	1530.3	1508.4	1479.5	1469.3	1454.2	1429.1	1409.1
42.5°	1497.5	1499.4	1523.5	1553.1	1565.3	1561.8	1579.5	1574.9	1564.3	1545.0	1529.1
45°	1422.4	1428.0	1454.4	1510.3	1575.0	1607.9	1663.3	1663.8	1661.8	1651.4	1639.1
47.5°	1319.1	1327.0	1361.9	1437.4	1552.2	1652.7	1748.4	1752.8	1757.0	1750.2	1744.6
50°	1181.9	1191.4	1243.6	1343.7	1505.8	1699.1	1909.1	1929.3	1948.1	1945.8	1949.6
52.5°	1035.0	1046.1	1110.1	1221.6	1426.0	1709.9	2011.9	2044.8	2077.7	2104.6	2133.2
55°	902.5	896.6	960.5	1078.0	1294.8	1661.4	2104.3	2143.9	2180.6	2213.7	2247.7
57.5°	722.9	732.7	796.8	912.9	1121.1	1524.8	2167.9	2225.9	2278.6	2333.3	2381.5
60°	528.4	538.2	607.7	725.7	932.6	1317.6	2119.3	2207.2	2291.7	2375.4	2440.9
62.5°	319.1	326.3	387.6	500.0	719.1	1071.9	1902.9	2018.2	2142.5	2242.6	2342.9
65°	198.6	202.7	225.4	287.2	461.8	800.2	1554.7	1680.5	1814.3	1941.4	2045.6
67.5°	162.6	164.1	168.2	181.4	253.6	521.8	1157.1	1268.5	1389.3	1512.2	1628.2
70°	146.2	145.2	145.2	146.1	162.6	280.6	757.6	830.1	930.8	1037.7	1143.8
72.5°	132.0	131.0	129.2	126.7	132.7	171.2	391.6	446.3	518.8	613.9	715.5
75°	118.6	117.3	115.2	112.0	116.2	129.2	188.0	211.0	246.4	296.9	353.6
77.5°	104.8	103.1	101.1	98.8	104.1	100.5	110.2	118.5	132.0	148.2	169.5
80°	89.1	87.6	86.9	85.8	92.0	76.5	77.8	82.9	90.9	99.6	109.6
82.5°	69.7	69.7	72.4	72.9	79.8	55.0	58.2	62.6	66.8	71.4	76.0
85°	45.9	46.3	55.2	58.7	63.0	37.0	43.6	45.1	48.4	51.1	53.0
87.5°	14.4	15.5	33.7	37.3	36.2	21.0	26.8	27.4	29.7	31.6	33.2
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):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	283.7	283.7	283.7	283.7	283.7	283.7	283.7	283.7	283.7	283.7	283.7
2.5°	314.8	312.8	311.0	310.8	309.5	307.7	308.3	305.5	305.7	304.2	302.5
5°	370.1	368.8	362.2	360.4	355.4	352.3	351.8	345.2	344.4	340.6	336.4
7.5°	449.8	445.5	436.2	431.8	423.3	417.1	414.1	405.3	401.0	391.1	386.7
10°	533.2	527.8	516.4	510.1	502.0	491.9	486.5	473.7	468.8	459.7	448.8
12.5°	610.5	605.1	593.4	588.6	577.8	567.1	561.1	546.8	540.3	525.8	517.2
15°	682.1	676.6	666.4	661.4	650.7	641.9	634.0	619.8	612.2	598.7	587.4
17.5°	751.5	745.7	736.8	732.3	721.9	713.0	704.4	691.0	683.3	669.7	659.6
20°	815.9	811.6	805.2	799.2	788.8	780.7	770.5	758.9	747.7	737.8	728.2
22.5°	872.1	870.5	863.5	860.9	852.0	845.0	836.1	824.7	816.6	804.0	795.1
25°	920.5	920.0	916.7	915.9	909.6	903.0	901.0	891.6	884.2	873.1	863.9
27.5°	962.2	962.7	961.8	964.2	962.5	959.5	959.7	956.6	952.3	943.0	934.9
30°	1008.4	1005.8	1007.3	1010.6	1011.6	1011.9	1017.4	1019.2	1018.8	1012.7	1008.8
32.5°	1073.9	1067.6	1061.8	1061.3	1064.6	1065.9	1075.2	1080.0	1084.1	1085.6	1086.3
35°	1157.3	1144.8	1132.7	1126.2	1120.6	1122.1	1128.7	1136.5	1145.6	1151.9	1159.3
37.5°	1262.4	1247.0	1225.7	1210.5	1206.7	1198.5	1202.8	1208.9	1217.8	1227.5	1240.4
40°	1389.8	1366.5	1342.5	1322.4	1311.5	1296.3	1296.1	1295.0	1300.4	1309.5	1327.7
42.5°	1512.4	1491.8	1466.3	1445.2	1430.9	1410.6	1406.5	1395.8	1398.2	1406.2	1423.8
45°	1627.2	1610.2	1594.7	1570.2	1558.2	1536.2	1529.3	1516.5	1509.4	1513.1	1530.7
47.5°	1738.4	1727.5	1711.4	1695.5	1686.2	1666.6	1657.6	1648.6	1639.5	1639.1	1657.6
50°	1955.2	1949.5	1930.3	1913.8	1918.2	1894.1	1895.6	1871.1	1882.2	1883.5	1922.4
52.5°	2159.0	2179.1	2193.3	2210.7	2221.9	2224.1	2231.5	2242.6	2256.0	2282.4	2318.4
55°	2275.6	2300.9	2315.6	2328.8	2350.6	2355.3	2367.7	2382.4	2394.1	2423.8	2454.4
57.5°	2414.3	2461.2	2484.0	2505.0	2534.4	2545.6	2566.3	2582.3	2597.5	2632.7	2669.7
60°	2499.7	2556.9	2603.3	2636.5	2673.4	2699.8	2731.0	2756.1	2791.8	2834.0	2889.2
62.5°	2431.8	2515.7	2577.4	2634.4	2684.4	2735.0	2779.8	2826.7	2880.9	2944.7	3030.3
65°	2161.3	2246.7	2352.3	2411.5	2477.7	2555.7	2623.8	2699.8	2773.7	2866.5	2993.1
67.5°	1739.9	1839.2	1957.9	2017.5	2093.7	2180.8	2257.1	2350.0	2436.2	2548.8	2705.2
70°	1254.1	1382.5	1482.3	1544.6	1633.5	1723.2	1796.9	1905.0	1976.4	2091.7	2253.5
72.5°	794.1	895.4	1017.7	1096.2	1175.2	1266.0	1341.4	1434.6	1501.2	1606.3	1752.8
75°	427.0	501.7	609.1	683.6	768.2	845.8	934.1	996.5	1045.8	1128.9	1247.9
77.5°	200.1	245.5	299.9	357.2	414.6	474.4	532.6	583.1	604.3	651.9	722.1
80°	121.4	136.2	152.0	169.7	193.7	213.0	238.6	257.1	258.4	273.5	294.9
82.5°	81.1	86.6	91.4	95.8	102.0	106.7	112.2	118.6	121.3	124.8	131.7
85°	55.4	58.0	59.0	61.8	61.1	62.8	64.9	67.1	68.2	68.1	71.2
87.5°	34.0	35.4	36.0	36.7	36.2	35.5	36.5	37.7	38.0	37.0	37.3
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):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	283.7	283.7	283.7	283.7	283.7	283.7	283.7	283.7	283.7	283.7	283.7
2.5°	302.9	301.4	299.9	298.9	298.6	289.8	286.0	283.5	278.3	274.0	270.5
5°	334.1	331.0	328.5	325.5	323.9	301.7	293.6	288.0	278.8	273.3	268.3
7.5°	384.3	375.6	370.5	364.7	359.7	319.7	306.3	297.6	284.7	277.4	271.8
10°	441.3	432.3	424.2	415.2	407.5	343.7	324.2	310.6	293.6	284.2	276.8
12.5°	505.0	496.0	485.8	474.4	464.5	374.1	347.0	327.7	304.4	291.8	281.4
15°	580.1	564.4	552.1	538.8	527.3	410.4	373.6	346.8	315.8	298.7	284.9
17.5°	650.0	633.5	616.7	605.1	591.7	451.3	400.4	366.3	325.2	303.2	285.5
20°	718.3	700.3	685.7	670.2	656.2	493.6	429.0	383.5	331.3	303.4	281.4
22.5°	778.4	767.2	751.0	734.1	719.9	535.9	455.7	398.1	333.6	299.6	274.1
25°	846.8	834.9	815.1	800.9	785.0	579.0	482.0	409.3	332.3	292.5	262.9
27.5°	919.9	906.7	886.3	871.5	852.3	623.8	506.1	417.4	327.3	280.9	247.9
30°	996.0	984.0	964.0	949.0	929.6	671.2	533.1	422.8	317.4	264.9	230.3
32.5°	1077.8	1067.8	1047.9	1032.2	1011.6	722.6	558.2	424.5	302.4	245.9	211.8
35°	1155.5	1148.6	1131.9	1117.2	1095.7	771.2	584.8	423.7	284.5	225.1	195.0
37.5°	1242.9	1238.8	1230.5	1211.8	1185.6	837.1	616.7	420.2	262.7	204.4	182.1
40°	1336.1	1336.4	1327.5	1314.8	1290.3	917.1	654.7	413.4	238.9	186.2	170.4
42.5°	1434.7	1439.9	1435.6	1426.5	1403.0	997.7	700.1	405.2	215.8	168.5	158.8
45°	1547.8	1554.0	1560.7	1547.3	1524.5	1104.1	759.9	394.4	190.8	153.8	150.9
47.5°	1678.1	1688.1	1694.0	1694.2	1671.4	1236.0	857.1	388.0	168.7	143.9	147.1
50°	1953.3	1956.4	1970.4	1994.9	1977.4	1541.2	1026.8	384.0	153.7	137.8	144.3
52.5°	2349.7	2384.2	2408.5	2406.8	2383.0	1735.0	1120.3	363.5	144.7	135.5	142.9
55°	2511.1	2554.2	2599.2	2611.1	2592.6	1900.4	1208.7	343.0	140.5	137.1	143.4
57.5°	2726.2	2798.9	2860.6	2886.5	2859.7	2112.0	1325.0	332.3	139.1	141.6	146.6
60°	2977.6	3067.4	3148.4	3195.0	3195.0	2355.3	1445.7	327.8	137.3	148.2	151.9
62.5°	3139.0	3271.0	3393.3	3461.5	3459.5	2524.6	1499.2	312.6	133.2	152.8	159.1
65°	3139.7	3296.6	3452.4	3529.1	3533.1	2503.8	1410.8	276.1	125.6	153.5	166.4
67.5°	2877.9	3045.3	3226.9	3312.7	3332.5	2304.9	1221.3	227.0	113.2	146.9	169.0
70°	2430.6	2594.0	2779.4	2863.7	2898.9	1964.8	983.7	175.0	97.3	132.4	163.6
72.5°	1914.9	2075.2	2204.3	2265.9	2293.3	1501.8	716.3	132.2	79.8	111.5	148.9
75°	1355.8	1476.1	1544.6	1558.3	1562.6	905.3	435.2	98.3	65.8	86.7	125.7
77.5°	765.2	816.8	811.1	817.3	766.4	349.5	189.5	70.4	54.2	65.9	97.5
80°	298.7	308.0	289.3	283.5	260.1	130.0	83.6	49.1	43.3	49.9	68.2
82.5°	131.7	136.0	132.0	133.0	127.2	67.1	50.1	35.5	33.0	36.5	45.3
85°	72.5	73.9	73.5	75.7	72.5	26.8	23.8	21.8	23.1	24.8	29.1
87.5°	35.4	35.7	34.5	36.4	35.2	13.5	11.7	12.4	13.5	13.9	13.9
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):**

	135°	145°	155°	165°	175°	180°
0°	283.7	283.7	283.7	283.7	283.7	283.7
2.5°	268.0	266.7	266.9	266.5	265.9	265.9
5°	265.7	264.4	264.4	264.0	263.2	263.4
7.5°	268.0	265.9	265.0	263.9	262.7	262.7
10°	270.7	266.9	264.5	262.6	261.1	261.1
12.5°	272.6	266.7	262.9	260.2	258.8	258.8
15°	273.3	265.5	260.2	257.1	255.8	255.6
17.5°	271.2	261.1	254.6	251.0	249.3	248.8
20°	264.5	253.0	245.2	241.1	238.8	237.9
22.5°	254.6	241.4	232.3	228.0	225.1	224.6
25°	240.7	226.5	217.6	213.5	211.8	211.3
27.5°	224.6	211.3	203.7	201.1	199.6	199.4
30°	209.2	198.0	192.3	190.4	188.5	188.2
32.5°	194.8	187.7	185.6	182.8	178.5	178.0
35°	184.6	183.9	182.4	176.1	170.9	169.4
37.5°	178.3	184.4	176.8	164.4	160.6	160.3
40°	174.7	179.3	166.2	161.9	162.3	161.9
42.5°	166.4	171.2	166.6	164.6	165.9	166.2
45°	158.1	163.4	169.0	167.7	170.9	170.9
47.5°	153.5	161.4	168.9	168.9	173.5	175.2
50°	148.2	159.8	166.2	168.5	172.2	170.9
52.5°	147.9	157.0	162.4	166.6	168.2	166.7
55°	148.4	154.7	158.6	163.3	165.2	165.4
57.5°	149.0	153.3	156.0	158.1	164.1	164.1
60°	150.7	152.2	153.7	154.8	162.6	162.8
62.5°	153.3	151.0	150.7	151.9	161.8	161.1
65°	157.5	149.4	146.9	148.1	160.9	159.0
67.5°	163.1	146.9	142.1	142.9	160.3	156.0
70°	168.2	142.9	136.2	135.3	154.0	146.4
72.5°	168.7	138.3	127.9	125.4	133.8	126.6
75°	160.4	135.2	118.8	111.5	110.5	109.6
77.5°	144.6	133.3	108.2	96.8	94.8	95.5
80°	121.0	126.6	95.5	82.0	92.7	91.5
82.5°	90.4	111.7	81.1	72.5	72.4	63.9
85°	50.2	87.1	66.1	54.4	37.8	36.7
87.5°	14.0	48.4	46.3	30.7	21.0	21.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)