

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: P193930

Luminaire Tested: **GLEON-AF-02-LED-E1-T2R-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193930
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-02-LED-E1-T2R-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6822 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 66
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

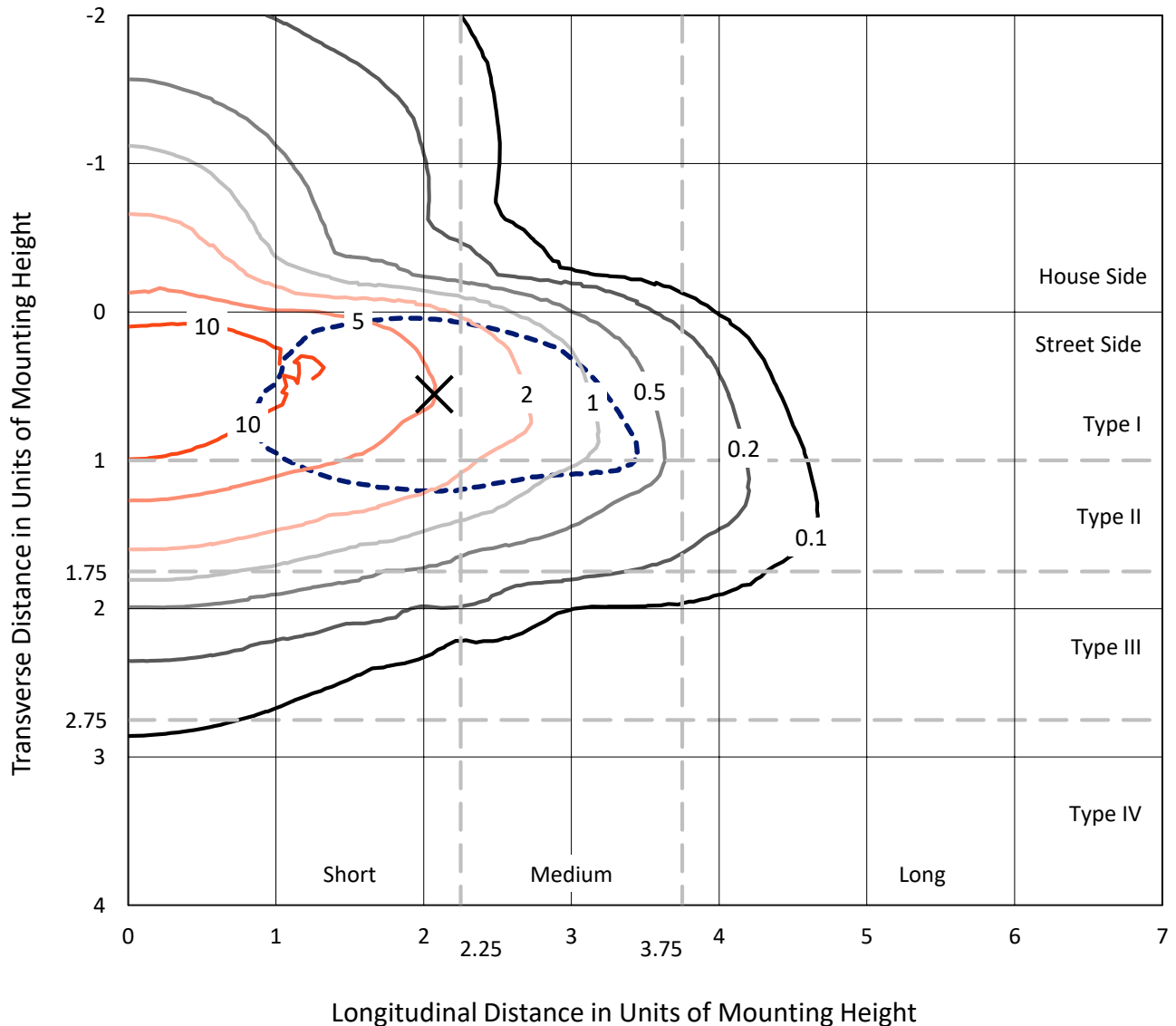


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Iso-Footcandle Lines of Horizontal Illumination

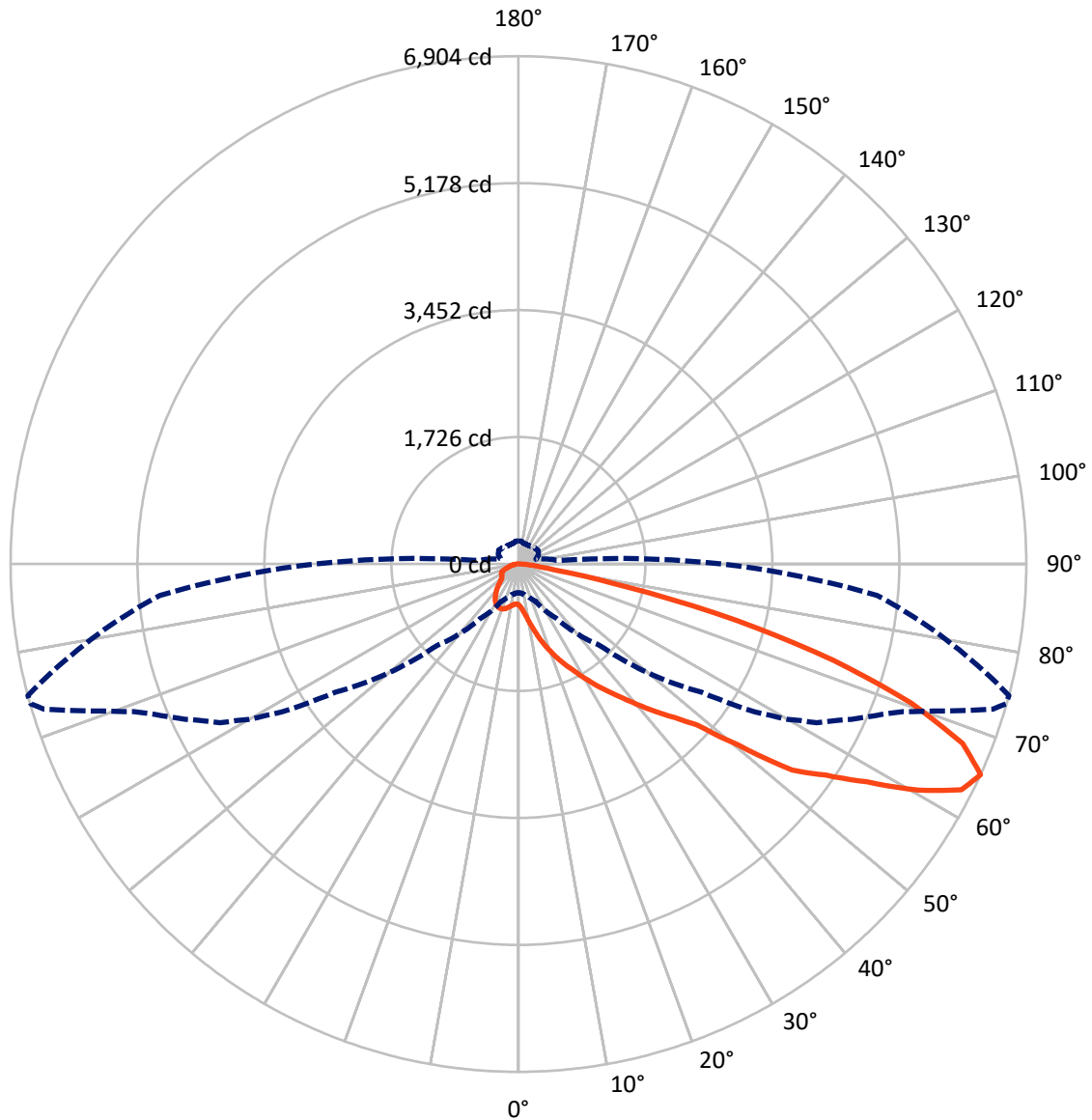
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.2 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
House Side	Lumens	1051.8	0.0	1051.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	5770.2	0.0	5770.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	6822.0	0.0	6822.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	1.0
10°-20°	267.8	3.9
20°-30°	549.3	8.1
30°-40°	924.2	13.5
40°-50°	1277.0	18.7
50°-60°	1594.1	23.4
60°-70°	1434.5	21.0
70°-80°	601.3	8.8
80°-90°	105.1	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°	6822.0	100.0
0°-180°	6822.0	100.0



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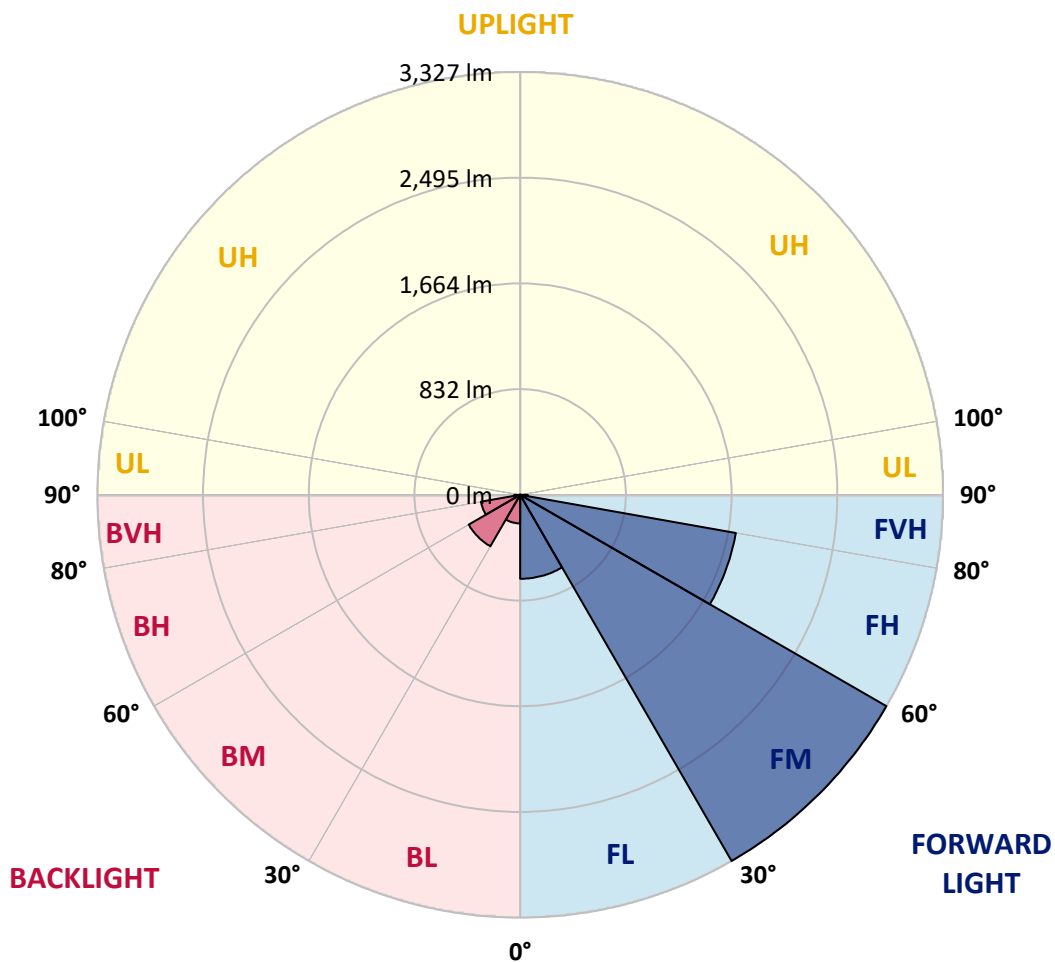
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	660.7	9.7			
FM	(30°-60°)	3327.3	48.8			
FH	(60°-80°)	1723.2	25.3			G1/1800
FVH	(80°-90°)	59.0	0.9			G1/100
BL	(0°-30°)	224.9	3.3	B1/500		
BM	(30°-60°)	468.2	6.9	B1/1000		
BH	(60°-80°)	312.7	4.6	B1/500		G1/500
BVH	(80°-90°)	46.0	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°	554.4	554.4	554.4	554.4	554.4	554.4	554.4	554.4	554.4	554.4	554.4
2.5°	703.9	696.2	698.1	685.2	669.4	648.7	625.8	625.5	625.8	623.5	615.1
5°	976.1	966.8	963.2	934.1	891.5	830.8	764.9	757.8	754.9	747.5	730.4
7.5°	1174.7	1169.5	1164.1	1142.1	1103.3	1035.5	947.1	931.9	917.4	913.8	894.4
10°	1302.9	1301.6	1290.0	1284.2	1260.0	1201.2	1115.0	1100.4	1084.6	1079.1	1058.8
12.5°	1404.3	1404.0	1398.5	1400.1	1379.1	1336.5	1262.2	1249.0	1237.3	1220.6	1206.0
15°	1474.4	1474.7	1482.8	1491.8	1488.6	1459.8	1390.1	1384.3	1374.3	1362.6	1345.5
17.5°	1531.8	1533.4	1541.8	1558.3	1576.1	1573.8	1518.6	1513.8	1505.0	1489.2	1480.2
20°	1661.6	1667.8	1651.6	1651.6	1653.6	1662.3	1635.8	1631.9	1619.7	1611.3	1604.2
22.5°	1880.9	1888.0	1851.5	1814.4	1777.9	1751.4	1724.9	1729.8	1721.4	1715.6	1711.4
25°	2165.7	2171.2	2112.1	2049.4	1975.2	1878.3	1812.8	1809.9	1805.3	1801.8	1799.8
27.5°	2433.7	2436.0	2380.1	2288.4	2202.2	2063.0	1901.9	1898.3	1892.8	1886.1	1880.2
30°	2663.0	2662.3	2604.8	2517.3	2425.0	2271.0	2037.2	2026.2	2010.0	1991.6	1977.4
32.5°	2861.5	2860.6	2797.6	2706.9	2610.0	2477.0	2222.5	2199.9	2174.7	2138.9	2117.3
35°	3017.8	3017.2	2957.8	2863.1	2752.1	2671.0	2435.0	2407.2	2375.2	2327.1	2293.9
37.5°	3076.9	3076.9	3043.6	2979.1	2880.9	2825.4	2671.0	2637.4	2603.2	2548.6	2511.2
40°	3042.4	3043.0	3050.1	3038.2	2990.4	2947.7	2891.2	2871.2	2841.8	2792.8	2753.7
42.5°	2926.4	2930.0	2977.1	3034.9	3058.8	3052.0	3086.6	3077.6	3056.9	3019.1	2988.1
45°	2779.5	2790.5	2842.2	2951.3	3077.9	3142.1	3250.3	3251.3	3247.4	3227.1	3203.2
47.5°	2577.7	2593.2	2661.3	2808.9	3033.3	3229.6	3416.6	3425.3	3433.4	3420.1	3409.2
50°	2309.7	2328.1	2430.1	2625.8	2942.6	3320.4	3730.8	3770.2	3807.0	3802.5	3809.9
52.5°	2022.6	2044.3	2169.2	2387.2	2786.6	3341.4	3931.6	3995.9	4060.1	4112.8	4168.6
55°	1763.7	1752.1	1877.0	2106.6	2530.2	3246.8	4112.1	4189.6	4261.3	4325.9	4392.4
57.5°	1412.7	1431.7	1557.0	1784.0	2190.9	2979.7	4236.4	4349.8	4452.8	4559.7	4653.9
60°	1032.6	1051.7	1187.6	1418.2	1822.4	2574.8	4141.5	4313.3	4478.3	4642.0	4769.9
62.5°	623.5	637.7	757.5	977.1	1405.3	2094.6	3718.5	3943.9	4186.7	4382.4	4578.4
65°	388.1	396.2	440.4	561.2	902.5	1563.8	3038.2	3283.9	3545.4	3793.7	3997.5
67.5°	317.7	320.6	328.7	354.5	495.7	1019.7	2261.3	2478.9	2714.9	2955.2	3181.8
70°	285.8	283.8	283.8	285.4	317.7	548.3	1480.5	1622.2	1818.9	2027.8	2235.1
72.5°	258.0	256.1	252.5	247.7	259.3	334.5	765.3	872.2	1013.9	1199.6	1398.2
75°	231.8	229.3	225.1	218.9	227.0	252.5	367.5	412.3	481.4	580.2	691.0
77.5°	204.7	201.5	197.6	193.1	203.4	196.3	215.4	231.5	258.0	289.6	331.3
80°	174.0	171.1	169.8	167.6	179.9	149.5	152.1	162.1	177.6	194.7	214.1
82.5°	136.3	136.3	141.4	142.4	156.0	107.5	113.7	122.4	130.5	139.5	148.5
85°	89.8	90.4	107.8	114.6	123.0	72.3	85.2	88.2	94.6	99.8	103.7
87.5°	28.1	30.4	65.9	73.0	70.7	41.0	52.3	53.6	58.1	61.7	64.9
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	554.4	554.4	554.4	554.4	554.4	554.4	554.4	554.4	554.4	554.4	554.4
2.5°	615.1	611.2	607.7	607.4	604.8	601.2	602.5	597.0	597.4	594.5	591.2
5°	723.3	720.7	707.8	704.2	694.6	688.4	687.5	674.5	672.9	665.5	657.4
7.5°	878.9	870.5	852.5	843.7	827.3	815.0	809.2	792.1	783.7	764.3	755.6
10°	1042.0	1031.3	1009.1	996.8	981.0	961.3	950.6	925.8	916.1	898.3	877.0
12.5°	1193.1	1182.5	1159.5	1150.2	1129.2	1108.2	1096.6	1068.5	1055.9	1027.5	1010.7
15°	1332.9	1322.3	1302.3	1292.6	1271.6	1254.5	1239.0	1211.2	1196.3	1169.9	1147.9
17.5°	1468.5	1457.2	1439.8	1431.1	1410.7	1393.3	1376.5	1350.4	1335.2	1308.7	1289.0
20°	1594.5	1586.1	1573.5	1561.9	1541.5	1525.7	1505.7	1483.1	1461.1	1441.7	1423.0
22.5°	1704.3	1701.0	1687.5	1682.3	1664.9	1651.3	1633.9	1611.6	1595.8	1571.2	1553.8
25°	1798.9	1797.9	1791.4	1789.8	1777.6	1764.6	1760.8	1742.4	1727.8	1706.2	1688.1
27.5°	1880.2	1881.2	1879.6	1884.1	1880.9	1875.1	1875.4	1869.3	1860.9	1842.8	1827.0
30°	1970.7	1965.5	1968.4	1974.9	1976.8	1977.4	1988.1	1991.6	1991.0	1979.0	1971.3
32.5°	2098.5	2086.3	2075.0	2074.0	2080.4	2083.0	2101.1	2110.5	2118.5	2121.4	2122.7
35°	2261.6	2237.0	2213.5	2200.9	2189.9	2192.8	2205.7	2220.9	2238.7	2250.9	2265.5
37.5°	2467.0	2436.9	2395.3	2365.6	2358.1	2342.0	2350.4	2362.3	2379.8	2398.8	2424.0
40°	2715.9	2670.4	2623.6	2584.2	2562.9	2533.1	2532.8	2530.6	2541.2	2559.0	2594.5
42.5°	2955.5	2915.1	2865.4	2824.1	2796.3	2756.6	2748.5	2727.5	2732.4	2747.9	2782.4
45°	3179.9	3146.7	3116.3	3068.5	3044.9	3002.0	2988.4	2963.6	2949.7	2956.8	2991.3
47.5°	3397.2	3375.9	3344.3	3313.3	3295.2	3256.8	3239.3	3221.6	3203.8	3203.2	3239.3
50°	3820.9	3809.6	3772.1	3739.8	3748.5	3701.4	3704.3	3656.5	3678.1	3680.7	3756.6
52.5°	4219.0	4258.4	4286.2	4320.1	4342.0	4346.2	4360.8	4382.4	4408.5	4460.2	4530.6
55°	4447.0	4496.4	4525.1	4550.9	4593.6	4602.6	4626.8	4655.6	4678.5	4736.6	4796.3
57.5°	4717.9	4809.6	4854.1	4895.2	4952.6	4974.6	5014.9	5046.3	5076.0	5144.8	5217.1
60°	4884.8	4996.5	5087.3	5152.2	5224.2	5275.9	5336.9	5386.0	5455.7	5538.0	5645.9
62.5°	4752.1	4916.1	5036.6	5148.0	5245.8	5344.6	5432.1	5523.8	5629.7	5754.4	5921.6
65°	4223.5	4390.5	4596.8	4712.4	4841.9	4994.3	5127.3	5275.9	5420.2	5601.7	5849.0
67.5°	3400.1	3594.2	3826.0	3942.6	4091.5	4261.6	4410.8	4592.3	4760.8	4980.7	5286.5
70°	2450.8	2701.7	2896.7	3018.5	3192.2	3367.5	3511.5	3722.7	3862.2	4087.6	4403.7
72.5°	1551.9	1749.8	1988.7	2142.1	2296.5	2474.1	2621.3	2803.4	2933.5	3138.9	3425.3
75°	834.4	980.3	1190.2	1335.8	1501.2	1652.9	1825.3	1947.4	2043.6	2206.0	2438.5
77.5°	391.0	479.8	586.1	698.1	810.2	927.0	1040.7	1139.5	1180.8	1273.8	1411.1
80°	237.3	266.1	297.1	331.6	378.4	416.2	466.3	502.4	505.0	534.4	576.4
82.5°	158.5	169.2	178.6	187.3	199.2	208.6	219.2	231.8	237.0	243.8	257.4
85°	108.2	113.3	115.3	120.8	119.5	122.7	126.9	131.1	133.4	133.0	139.2
87.5°	66.5	69.1	70.4	71.7	70.7	69.4	71.4	73.6	74.3	72.3	73.0
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	554.4	554.4	554.4	554.4	554.4	554.4	554.4	554.4	554.4	554.4	554.4
2.5°	591.9	589.0	586.1	584.1	583.5	566.4	558.9	554.1	543.8	535.4	528.6
5°	652.9	646.8	641.9	636.1	632.9	589.6	573.8	562.8	544.7	534.1	524.4
7.5°	751.1	733.9	723.9	712.6	703.0	624.8	598.7	581.5	556.4	542.1	531.2
10°	862.5	844.7	828.9	811.4	796.3	671.6	633.5	607.1	573.8	555.4	540.9
12.5°	986.8	969.3	949.3	927.0	907.7	731.0	678.1	640.3	594.8	570.2	549.9
15°	1133.7	1103.0	1078.8	1053.0	1030.4	802.1	730.1	677.8	617.1	583.8	556.7
17.5°	1270.3	1238.0	1205.1	1182.5	1156.3	881.8	782.4	715.9	635.5	592.5	558.0
20°	1403.6	1368.4	1340.0	1309.7	1282.2	964.5	838.2	749.4	647.4	592.8	549.9
22.5°	1521.2	1499.2	1467.6	1434.6	1406.9	1047.2	890.6	777.9	651.9	585.4	535.7
25°	1654.9	1631.6	1592.9	1565.1	1534.1	1131.4	941.9	799.8	649.4	571.5	513.7
27.5°	1797.6	1771.7	1732.0	1703.0	1665.5	1218.9	989.0	815.6	639.7	548.9	484.3
30°	1946.4	1922.9	1883.8	1854.4	1816.6	1311.6	1041.7	826.3	620.3	517.6	450.1
32.5°	2106.3	2086.6	2047.8	2017.2	1976.8	1412.0	1090.8	829.5	590.9	480.5	414.0
35°	2258.0	2244.5	2211.9	2183.1	2141.1	1507.0	1142.7	827.9	556.0	439.8	381.0
37.5°	2428.8	2420.8	2404.6	2368.1	2316.8	1635.8	1205.1	821.1	513.4	399.4	355.8
40°	2611.0	2611.6	2594.2	2569.3	2521.5	1792.1	1279.3	807.9	466.9	363.9	332.9
42.5°	2803.7	2813.7	2805.3	2787.6	2741.7	1949.7	1368.1	791.7	421.7	329.4	310.3
45°	3024.6	3036.9	3049.8	3023.6	2979.1	2157.6	1485.0	770.8	372.9	300.6	294.8
47.5°	3279.4	3298.7	3310.4	3310.7	3266.1	2415.3	1674.9	758.2	329.7	281.2	287.4
50°	3817.0	3823.1	3850.6	3898.4	3864.1	3011.7	2006.5	750.4	300.3	269.3	281.9
52.5°	4591.6	4659.1	4706.6	4703.4	4656.9	3390.4	2189.3	710.4	282.9	264.8	279.3
55°	4907.1	4991.4	5079.2	5102.5	5066.3	3713.7	2362.0	670.3	274.5	268.0	280.3
57.5°	5327.5	5469.6	5590.0	5640.7	5588.4	4127.3	2589.3	649.4	271.9	276.7	286.4
60°	5818.6	5994.3	6152.5	6243.6	6243.6	4602.6	2825.0	640.6	268.3	289.6	296.7
62.5°	6134.1	6392.1	6631.1	6764.4	6760.5	4933.6	2929.7	610.9	260.3	298.7	311.0
65°	6135.4	6442.2	6746.7	6896.5	6904.2	4892.9	2756.9	539.6	245.4	300.0	325.2
67.5°	5623.9	5951.0	6305.9	6473.5	6512.2	4504.1	2386.5	443.7	221.2	287.1	330.3
70°	4749.8	5069.2	5431.5	5596.2	5664.9	3839.6	1922.2	342.0	190.2	258.6	319.7
72.5°	3742.1	4055.3	4307.5	4427.9	4481.5	2934.8	1399.8	258.3	156.0	218.0	290.9
75°	2649.4	2884.5	3018.5	3045.3	3053.7	1769.2	850.5	192.1	128.5	169.5	245.7
77.5°	1495.3	1596.1	1585.1	1597.1	1497.6	682.9	370.4	137.6	105.9	128.8	190.5
80°	583.8	601.9	565.4	554.1	508.2	254.1	163.4	95.9	84.6	97.5	133.4
82.5°	257.4	265.7	258.0	259.9	248.6	131.1	97.8	69.4	64.6	71.4	88.5
85°	141.8	144.3	143.7	147.9	141.8	52.3	46.5	42.6	45.2	48.4	56.8
87.5°	69.1	69.7	67.5	71.0	68.8	26.5	22.9	24.2	26.5	27.1	27.1
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):

	135°	145°	155°	165°	175°	180°
0°	554.4	554.4	554.4	554.4	554.4	554.4
2.5°	523.7	521.2	521.5	520.8	519.5	519.5
5°	519.2	516.6	516.6	516.0	514.4	514.7
7.5°	523.7	519.5	517.9	515.7	513.4	513.4
10°	528.9	521.5	517.0	513.1	510.2	510.2
12.5°	532.8	521.2	513.7	508.6	505.7	505.7
15°	534.1	518.9	508.6	502.4	499.8	499.5
17.5°	529.9	510.2	497.6	490.5	487.3	486.3
20°	517.0	494.4	479.2	471.1	466.6	465.0
22.5°	497.6	471.8	454.0	445.6	439.8	438.8
25°	470.5	442.7	425.3	417.2	414.0	413.0
27.5°	438.8	413.0	398.1	393.0	390.1	389.7
30°	408.8	386.8	375.9	372.0	368.4	367.8
32.5°	380.7	366.8	362.6	357.1	348.7	347.8
35°	360.7	359.4	356.5	344.2	333.9	331.0
37.5°	348.4	360.4	345.5	321.3	313.9	313.2
40°	341.3	350.3	324.8	316.4	317.1	316.4
42.5°	325.2	334.5	325.5	321.6	324.2	324.8
45°	309.0	319.3	330.3	327.7	333.9	333.9
47.5°	300.0	315.5	330.0	330.0	339.0	342.3
50°	289.6	312.2	324.8	329.4	336.5	333.9
52.5°	289.0	306.8	317.4	325.5	328.7	325.8
55°	290.0	302.2	310.0	319.0	322.9	323.2
57.5°	291.3	299.7	304.8	309.0	320.6	320.6
60°	294.5	297.4	300.3	302.6	317.7	318.1
62.5°	299.7	295.1	294.5	296.7	316.1	314.8
65°	307.7	291.9	287.1	289.3	314.5	310.6
67.5°	318.7	287.1	277.7	279.3	313.2	304.8
70°	328.7	279.3	266.1	264.5	300.9	286.1
72.5°	329.7	270.3	249.9	245.1	261.5	247.3
75°	313.5	264.1	232.2	218.0	216.0	214.1
77.5°	282.5	260.6	211.5	189.2	185.3	186.6
80°	236.4	247.3	186.6	160.2	181.1	178.9
82.5°	176.6	218.3	158.5	141.8	141.4	125.0
85°	98.2	170.2	129.2	106.2	73.9	71.7
87.5°	27.4	94.6	90.4	60.1	41.0	42.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)