

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: P193130

Luminaire Tested: **GLEON-AF-02-LED-E1-T2R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193130
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 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: 8085.2 lumens
Efficiency: N/A
Efficacy: 122.5 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 - G2

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



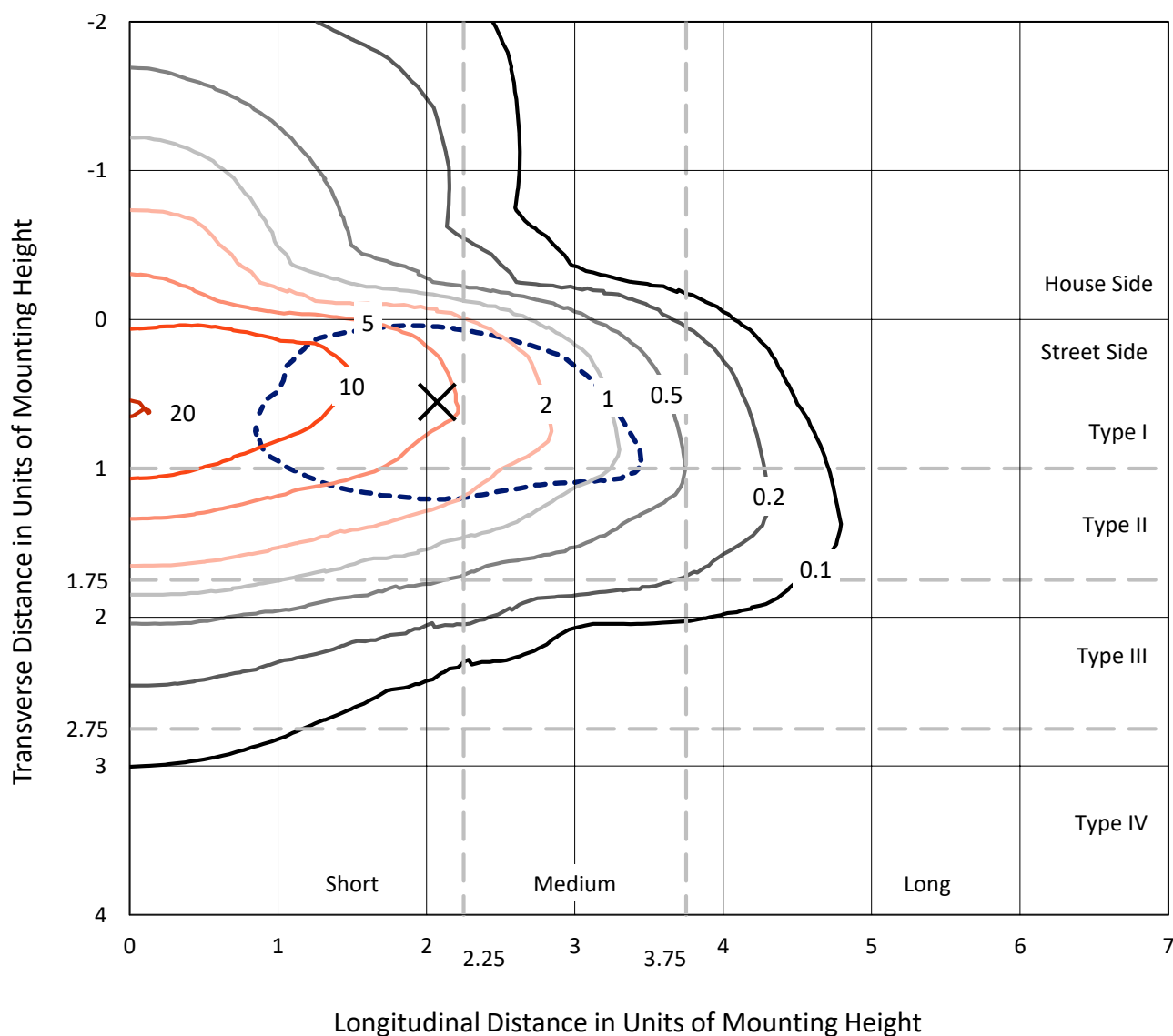
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

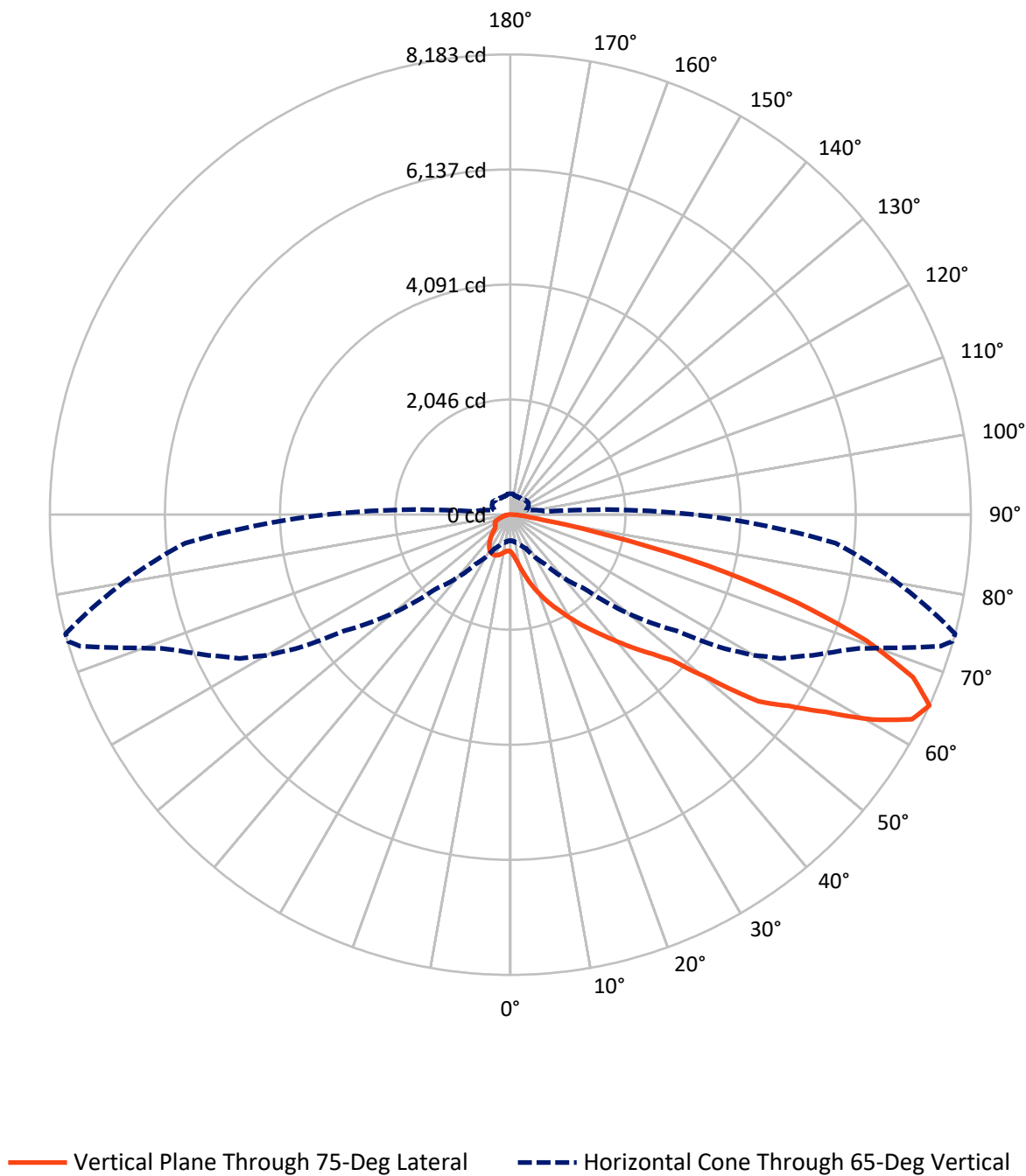


Based on 10 foot mounting height. Maximum calculated value = 20.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1246.5	0.0	1246.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	6838.6	0.0	6838.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	8085.2	0.0	8085.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	1.0
10°-20°	317.3	3.9
20°-30°	651.1	8.1
30°-40°	1095.4	13.5
40°-50°	1513.5	18.7
50°-60°	1889.3	23.4
60°-70°	1700.2	21.0
70°-80°	712.7	8.8
80°-90°	124.5	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°	8085.2	100.0
0°-180°	8085.2	100.0

Coefficient of Utilization



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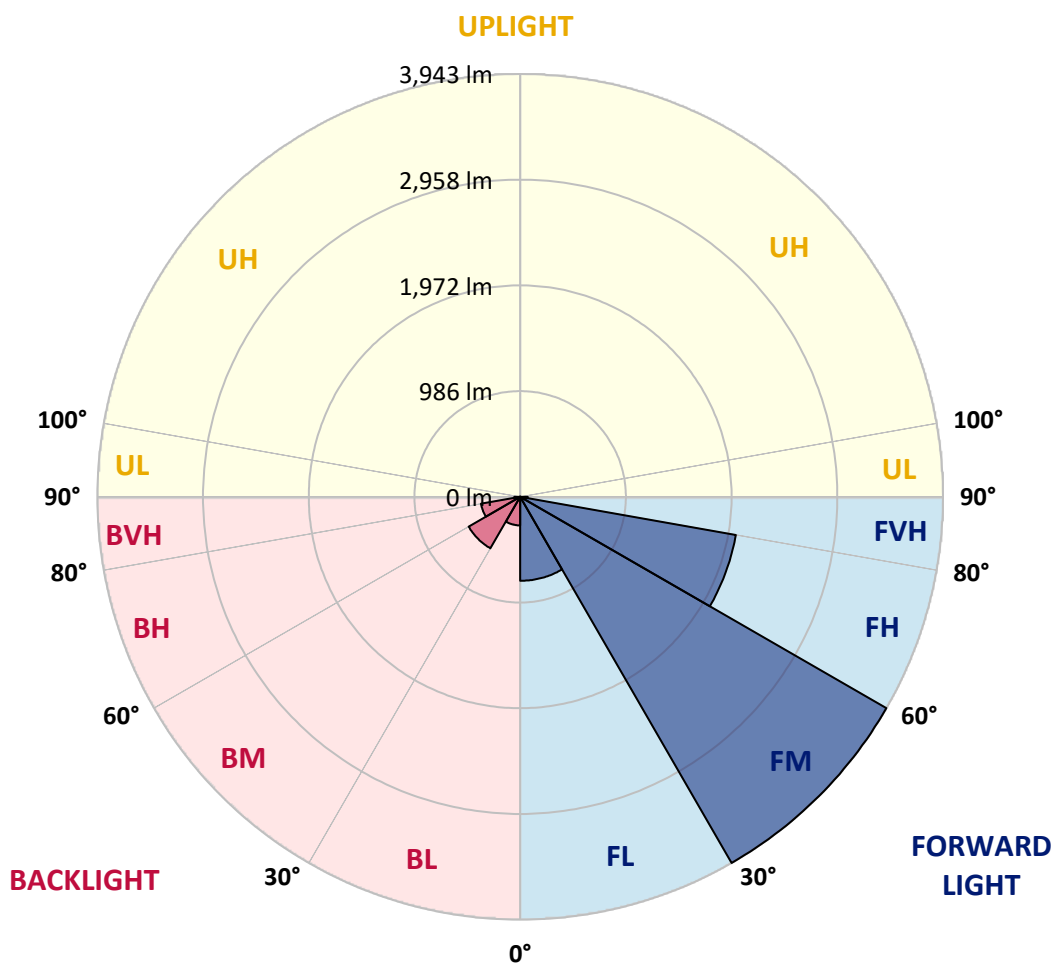
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	783.0	9.7			
FM	(30°-60°)	3943.3	48.8			
FH	(60°-80°)	2042.3	25.3			G2/5000
FVH	(80°-90°)	70.0	0.9			G1/100
BL	(0°-30°)	266.6	3.3	B1/500		
BM	(30°-60°)	554.9	6.9	B1/1000		
BH	(60°-80°)	370.6	4.6	B1/500		G1/500
BVH	(80°-90°)	54.5	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
2.5°	834.3	825.1	827.4	812.1	793.3	768.8	741.7	741.3	741.7	738.9	729.0
5°	1156.8	1145.8	1141.5	1107.2	1056.6	984.7	906.7	898.2	894.8	885.9	865.7
7.5°	1392.2	1386.1	1379.6	1353.6	1307.7	1227.3	1122.4	1104.4	1087.2	1083.0	1060.1
10°	1544.2	1542.6	1528.9	1522.0	1493.2	1423.6	1321.4	1304.2	1285.4	1279.0	1254.9
12.5°	1664.3	1663.9	1657.5	1659.3	1634.4	1583.9	1496.0	1480.3	1466.5	1446.6	1429.3
15°	1747.4	1747.7	1757.3	1768.1	1764.2	1730.1	1647.5	1640.6	1628.7	1615.0	1594.6
17.5°	1815.5	1817.4	1827.4	1846.8	1867.9	1865.3	1799.8	1794.0	1783.6	1765.0	1754.2
20°	1969.3	1976.6	1957.5	1957.5	1959.8	1970.1	1938.7	1934.1	1919.5	1909.7	1901.2
22.5°	2229.1	2237.6	2194.4	2150.3	2107.1	2075.7	2044.4	2050.0	2040.1	2033.2	2028.3
25°	2566.7	2573.2	2503.1	2429.0	2340.9	2226.0	2148.4	2145.0	2139.7	2135.4	2133.1
27.5°	2884.3	2886.9	2820.7	2712.2	2609.9	2445.0	2254.0	2249.8	2243.3	2235.3	2228.4
30°	3156.1	3155.3	3087.1	2983.5	2873.9	2691.5	2414.4	2401.4	2382.3	2360.4	2343.6
32.5°	3391.4	3390.2	3315.6	3208.1	3093.2	2935.6	2634.0	2607.3	2577.4	2535.0	2509.2
35°	3576.6	3575.8	3505.5	3393.3	3261.6	3165.6	2885.9	2853.0	2815.1	2758.0	2718.6
37.5°	3646.6	3646.6	3607.2	3530.7	3414.4	3348.6	3165.6	3125.8	3085.3	3020.6	2976.1
40°	3605.7	3606.4	3614.9	3600.7	3544.1	3493.6	3426.6	3402.9	3368.0	3309.9	3263.6
42.5°	3468.3	3472.5	3528.4	3597.0	3625.2	3617.1	3658.1	3647.4	3622.9	3578.1	3541.4
45°	3294.1	3307.2	3368.5	3497.8	3647.8	3724.0	3852.2	3853.2	3848.6	3824.6	3796.3
47.5°	3055.0	3073.4	3154.1	3329.0	3594.9	3827.7	4049.2	4059.5	4069.2	4053.4	4040.4
50°	2737.4	2759.3	2880.1	3112.0	3487.4	3935.2	4421.6	4468.2	4511.9	4506.5	4515.3
52.5°	2397.1	2422.9	2570.9	2829.3	3302.6	3960.1	4659.6	4735.8	4811.9	4874.3	4940.4
55°	2090.2	2076.5	2224.5	2496.7	2998.7	3847.9	4873.5	4965.4	5050.3	5126.9	5205.6
57.5°	1674.3	1696.8	1845.3	2114.3	2596.5	3531.5	5020.9	5155.2	5277.2	5404.0	5515.7
60°	1223.8	1246.4	1407.5	1680.7	2159.9	3051.6	4908.4	5111.9	5307.5	5501.5	5653.1
62.5°	738.9	755.8	897.8	1158.0	1665.4	2482.5	4407.1	4674.1	4961.9	5193.8	5426.2
65°	460.0	469.6	522.0	665.1	1069.6	1853.4	3600.7	3892.0	4201.9	4496.2	4737.7
67.5°	376.6	380.0	389.6	420.2	587.4	1208.5	2680.0	2937.9	3217.6	3502.5	3771.0
70°	338.7	336.4	336.4	338.2	376.6	649.8	1754.6	1922.6	2155.6	2403.2	2649.0
72.5°	305.8	303.5	299.3	293.5	307.3	396.5	907.0	1033.6	1201.7	1421.7	1657.0
75°	274.8	271.7	266.7	259.5	269.0	299.3	435.5	488.7	570.6	687.7	819.0
77.5°	242.7	238.8	234.3	228.9	241.1	232.7	255.2	274.3	305.8	343.3	392.7
80°	206.3	202.7	201.2	198.7	213.2	177.2	180.3	192.1	210.5	230.7	253.7
82.5°	161.4	161.4	167.6	168.8	184.8	127.4	134.7	145.0	154.6	165.3	176.0
85°	106.4	107.2	127.9	135.8	145.8	85.8	101.1	104.5	112.1	118.2	122.8
87.5°	33.4	35.9	78.1	86.6	83.8	48.6	62.0	63.5	68.9	73.1	76.9
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°	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
2.5°	729.0	724.4	720.2	719.8	716.7	712.6	714.1	707.6	708.0	704.5	700.7
5°	857.2	854.2	838.9	834.6	823.2	815.8	814.7	799.4	797.5	788.8	779.1
7.5°	1041.7	1031.7	1010.3	999.9	980.5	965.9	959.0	938.7	928.8	905.9	895.5
10°	1234.9	1222.3	1196.0	1181.3	1162.6	1139.2	1126.7	1097.2	1085.7	1064.6	1039.4
12.5°	1414.1	1401.4	1374.3	1363.1	1338.2	1313.4	1299.6	1266.4	1251.3	1217.7	1197.8
15°	1579.8	1567.1	1543.4	1532.0	1507.0	1486.7	1468.3	1435.4	1417.8	1386.5	1360.5
17.5°	1740.5	1727.1	1706.4	1696.0	1672.0	1651.4	1631.4	1600.4	1582.4	1551.1	1527.7
20°	1889.7	1879.8	1864.8	1851.1	1827.0	1808.2	1784.4	1757.7	1731.6	1708.7	1686.5
22.5°	2019.8	2016.1	1999.9	1993.8	1973.1	1957.1	1936.4	1910.0	1891.3	1862.3	1841.4
25°	2131.9	2130.8	2123.1	2121.3	2106.7	2091.4	2086.9	2065.0	2047.7	2022.2	2000.6
27.5°	2228.4	2229.6	2227.6	2233.0	2229.1	2222.3	2222.7	2215.3	2205.4	2184.0	2165.3
30°	2335.5	2329.4	2332.9	2340.6	2342.8	2343.6	2356.1	2360.4	2359.7	2345.5	2336.3
32.5°	2487.1	2472.5	2459.2	2458.0	2465.7	2468.7	2490.1	2501.3	2510.8	2514.3	2515.8
35°	2680.3	2651.2	2623.4	2608.4	2595.4	2598.8	2614.1	2632.2	2653.2	2667.7	2684.9
37.5°	2923.8	2888.2	2838.8	2803.6	2794.8	2775.6	2785.6	2799.8	2820.4	2843.0	2872.9
40°	3218.8	3164.8	3109.3	3062.6	3037.4	3002.2	3001.8	2999.1	3011.7	3032.8	3074.9
42.5°	3502.8	3454.9	3396.0	3346.9	3314.1	3267.0	3257.4	3232.6	3238.3	3256.7	3297.7
45°	3768.7	3729.3	3693.3	3636.7	3608.8	3557.8	3541.7	3512.3	3495.9	3504.3	3545.3
47.5°	4026.3	4001.0	3963.5	3926.8	3905.4	3859.8	3839.2	3818.1	3797.1	3796.3	3839.2
50°	4528.4	4514.9	4470.6	4432.3	4442.6	4386.8	4390.2	4333.6	4359.2	4362.2	4452.2
52.5°	5000.2	5046.9	5079.8	5120.0	5146.0	5151.0	5168.2	5193.8	5224.9	5286.1	5369.5
55°	5270.3	5328.9	5363.0	5393.6	5444.2	5454.9	5483.5	5517.6	5544.8	5613.6	5684.4
57.5°	5591.5	5700.2	5752.9	5801.5	5869.6	5895.7	5943.4	5980.7	6015.9	6097.3	6183.1
60°	5789.3	5921.8	6029.3	6106.2	6191.5	6252.8	6325.1	6383.3	6465.9	6563.5	6691.2
62.5°	5632.0	5826.5	5969.2	6101.1	6217.2	6334.3	6438.0	6546.6	6672.1	6819.9	7018.2
65°	5005.6	5203.4	5448.0	5585.0	5738.4	5919.0	6076.7	6252.8	6423.8	6638.9	6932.1
67.5°	4029.7	4259.7	4534.5	4672.6	4849.0	5050.7	5227.5	5442.6	5642.3	5902.9	6265.4
70°	2904.6	3202.0	3433.2	3577.3	3783.2	3991.0	4161.6	4412.0	4577.3	4844.4	5219.1
72.5°	1839.2	2073.7	2356.9	2538.7	2721.6	2932.2	3106.7	3322.5	3476.7	3720.1	4059.5
75°	988.9	1161.9	1410.5	1583.1	1779.1	1959.0	2163.4	2308.0	2422.1	2614.6	2890.0
77.5°	463.5	568.7	694.6	827.4	960.2	1098.7	1233.4	1350.6	1399.5	1509.8	1672.3
80°	281.3	315.3	352.1	393.0	448.5	493.3	552.7	595.5	598.5	633.3	683.1
82.5°	187.9	200.5	211.6	221.9	236.1	247.3	259.8	274.8	280.9	288.9	305.1
85°	128.2	134.3	136.6	143.1	141.6	145.5	150.4	155.3	158.1	157.7	165.0
87.5°	78.8	82.0	83.5	85.0	83.8	82.3	84.5	87.3	88.1	85.8	86.6
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0	657.0
2.5°	701.5	698.0	694.6	692.2	691.5	671.3	662.4	656.6	644.4	634.5	626.5
5°	773.8	766.6	760.8	753.9	750.1	698.8	680.0	667.0	645.6	632.9	621.4
7.5°	890.1	869.8	858.0	844.6	833.1	740.4	709.5	689.2	659.4	642.6	629.6
10°	1022.1	1001.2	982.4	961.7	943.7	796.0	750.8	719.5	680.0	658.2	641.1
12.5°	1169.5	1148.9	1125.2	1098.7	1075.7	866.4	803.6	759.0	704.9	675.9	651.7
15°	1343.7	1307.3	1278.6	1248.0	1221.2	950.5	865.3	803.3	731.3	691.9	659.7
17.5°	1505.5	1467.3	1428.2	1401.4	1370.4	1045.2	927.3	848.4	753.2	702.2	661.2
20°	1663.6	1621.9	1588.2	1552.1	1519.7	1143.1	993.5	888.2	767.3	702.6	651.7
22.5°	1802.9	1776.8	1739.3	1700.3	1667.4	1241.0	1055.5	921.9	772.7	693.8	634.9
25°	1961.3	1933.7	1887.8	1854.9	1818.2	1340.9	1116.3	948.0	769.6	677.4	608.9
27.5°	2130.4	2099.9	2052.8	2018.3	1973.9	1444.6	1172.2	966.6	758.1	650.5	574.0
30°	2306.9	2278.9	2232.6	2197.8	2153.0	1554.4	1234.5	979.3	735.1	613.5	533.5
32.5°	2496.2	2473.0	2426.9	2390.7	2342.8	1673.6	1292.7	983.2	700.4	569.5	490.6
35°	2676.1	2660.0	2621.4	2587.4	2537.6	1786.1	1354.4	981.2	659.0	521.2	451.6
37.5°	2878.6	2869.0	2849.9	2806.7	2745.8	1938.7	1428.2	973.2	608.5	473.4	421.7
40°	3094.4	3095.2	3074.5	3045.0	2988.5	2123.9	1516.2	957.4	553.4	431.2	394.5
42.5°	3322.9	3334.7	3324.8	3303.8	3249.4	2310.8	1621.4	938.3	499.8	390.4	367.7
45°	3584.7	3599.2	3614.6	3583.4	3530.7	2557.1	1759.9	913.5	442.0	356.3	349.4
47.5°	3886.6	3909.6	3923.3	3923.7	3870.9	2862.5	1985.0	898.5	390.7	333.3	340.6
50°	4523.8	4531.0	4563.5	4620.2	4579.6	3569.3	2378.0	889.4	355.8	319.1	334.2
52.5°	5441.8	5521.9	5578.0	5574.2	5519.1	4018.2	2594.6	842.0	335.2	313.8	331.0
55°	5815.8	5915.7	6019.6	6047.3	6004.4	4401.3	2799.3	794.5	325.3	317.6	332.1
57.5°	6314.0	6482.4	6625.2	6685.1	6623.2	4891.5	3068.8	769.6	322.2	328.0	339.5
60°	6896.0	7104.2	7291.8	7399.7	7399.7	5454.9	3348.1	759.3	318.1	343.3	351.7
62.5°	7269.9	7575.7	7858.9	8016.9	8012.3	5847.1	3472.2	724.1	308.4	354.0	368.5
65°	7271.4	7635.0	7995.9	8173.4	8182.7	5798.8	3267.4	639.5	290.8	355.5	385.3
67.5°	6665.3	7052.9	7473.6	7672.1	7718.1	5338.1	2828.5	525.9	262.1	340.3	391.4
70°	5629.4	6007.8	6437.2	6632.4	6713.9	4550.5	2278.2	405.3	225.4	306.6	378.9
72.5°	4435.0	4806.2	5105.0	5247.8	5311.3	3478.3	1659.0	306.2	184.8	258.3	344.8
75°	3140.0	3418.5	3577.3	3609.2	3619.1	2096.8	1008.0	227.7	152.3	200.9	291.1
77.5°	1772.1	1891.6	1878.6	1892.8	1774.9	809.4	438.9	163.1	125.5	152.8	225.8
80°	691.9	713.4	670.1	656.6	602.3	301.2	193.6	113.6	100.3	115.6	158.1
82.5°	305.1	315.0	305.8	308.1	294.7	155.3	116.0	82.3	76.6	84.5	104.9
85°	168.0	171.1	170.3	175.3	168.0	62.0	55.0	50.5	53.5	57.4	67.3
87.5°	82.0	82.7	80.0	84.2	81.5	31.3	27.2	28.7	31.3	32.1	32.1
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°	657.0	657.0	657.0	657.0	657.0	657.0
2.5°	620.7	617.7	618.1	617.4	615.7	615.7
5°	615.3	612.3	612.3	611.6	609.6	610.0
7.5°	620.7	615.7	613.8	611.2	608.5	608.5
10°	626.8	618.1	612.7	608.1	604.6	604.6
12.5°	631.4	617.7	608.9	602.8	599.3	599.3
15°	632.9	615.0	602.8	595.5	592.4	591.9
17.5°	628.0	604.6	589.7	581.3	577.4	576.4
20°	612.7	585.8	567.9	558.4	553.0	551.1
22.5°	589.7	559.1	538.1	528.2	521.2	520.1
25°	557.6	524.7	504.0	494.4	490.6	489.5
27.5°	520.1	489.5	471.9	465.8	462.2	461.9
30°	484.4	458.5	445.4	440.9	436.6	435.8
32.5°	451.2	434.8	429.7	423.3	413.3	412.1
35°	427.4	425.9	422.5	408.0	395.7	392.2
37.5°	412.9	427.1	409.5	380.8	371.9	371.2
40°	404.5	415.1	385.0	375.1	375.9	375.1
42.5°	385.3	396.5	385.8	381.2	384.3	385.0
45°	366.2	378.5	391.4	388.4	395.7	395.7
47.5°	355.5	373.8	391.1	391.1	401.8	405.7
50°	343.3	370.1	385.0	390.4	398.8	395.7
52.5°	342.5	363.5	376.2	385.8	389.6	386.1
55°	343.6	358.2	367.3	378.1	382.7	383.1
57.5°	345.2	355.1	361.2	366.2	380.0	380.0
60°	349.0	352.5	355.8	358.6	376.6	377.0
62.5°	355.1	349.7	349.0	351.7	374.6	373.1
65°	364.7	346.0	340.3	342.8	372.8	368.1
67.5°	377.7	340.3	329.1	331.0	371.2	361.2
70°	389.6	331.0	315.3	313.5	356.6	339.0
72.5°	390.7	320.3	296.2	290.4	310.0	293.2
75°	371.6	313.0	275.2	258.3	256.0	253.7
77.5°	334.9	308.8	250.6	224.3	219.6	221.1
80°	280.1	293.2	221.1	189.8	214.7	212.0
82.5°	209.3	258.7	187.9	168.0	167.6	148.0
85°	116.4	201.7	153.1	125.8	87.6	85.0
87.5°	32.6	112.1	107.2	71.1	48.6	50.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)