

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: P193950

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193950
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10353 lumens
Efficiency: N/A
Efficacy: 91.6 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

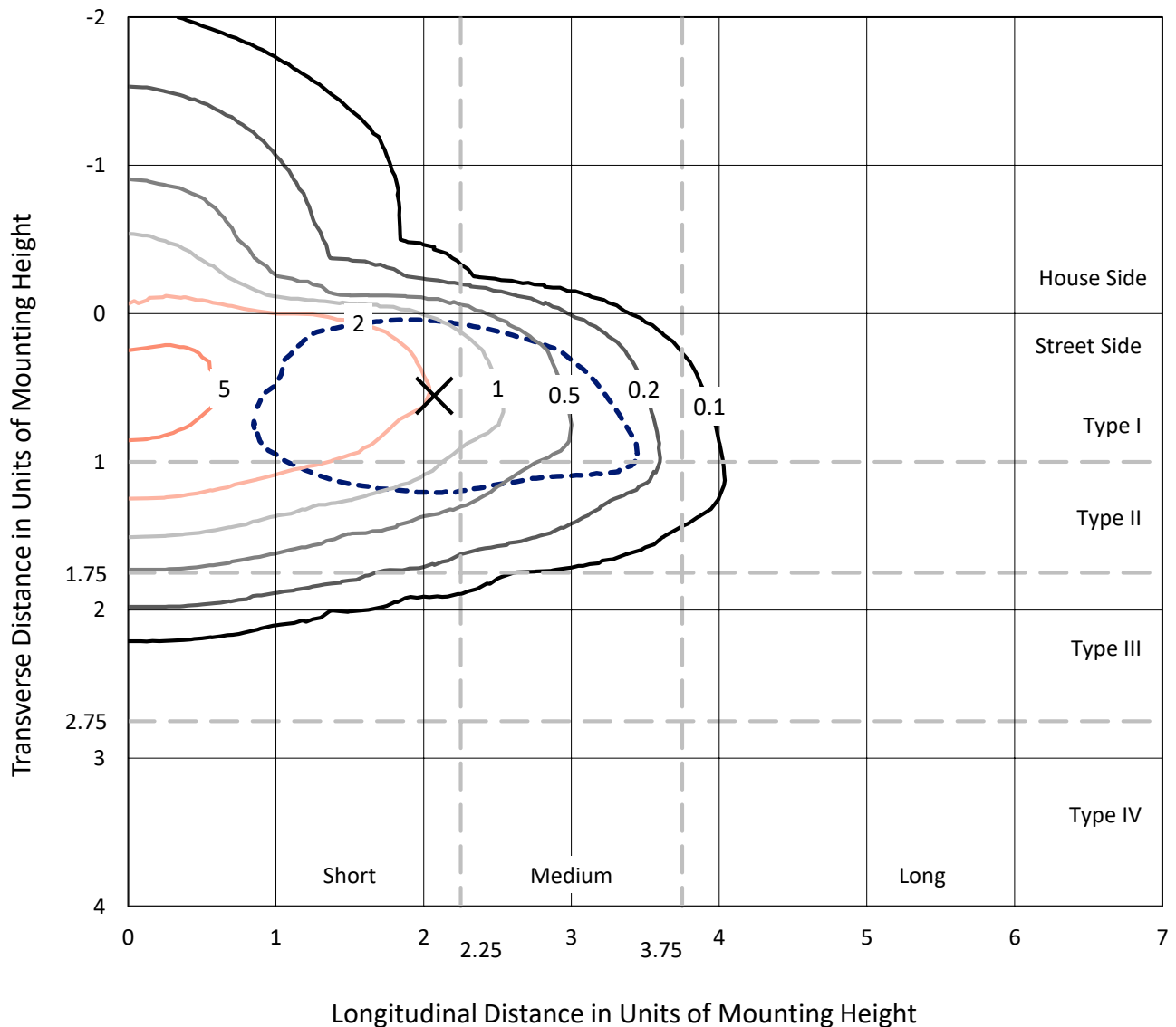
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

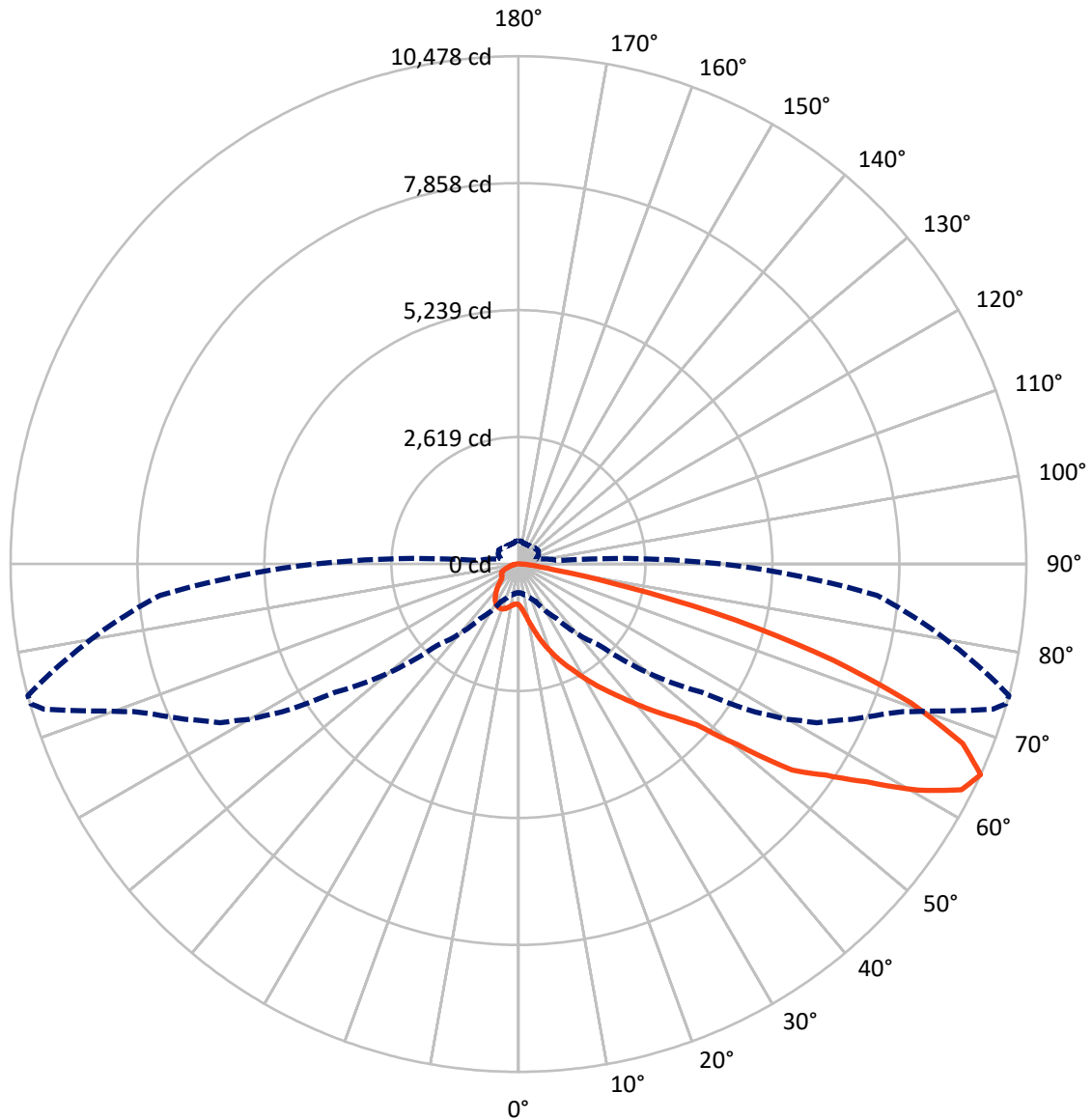
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 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	1596.2	0.0	1596.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	8756.8	0.0	8756.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	10353.0	0.0	10353.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	1.0
10°-20°	406.3	3.9
20°-30°	833.7	8.1
30°-40°	1402.6	13.5
40°-50°	1938.0	18.7
50°-60°	2419.2	23.4
60°-70°	2177.1	21.0
70°-80°	912.6	8.8
80°-90°	159.4	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°	10353.0	100.0
0°-180°	10353.0	100.0



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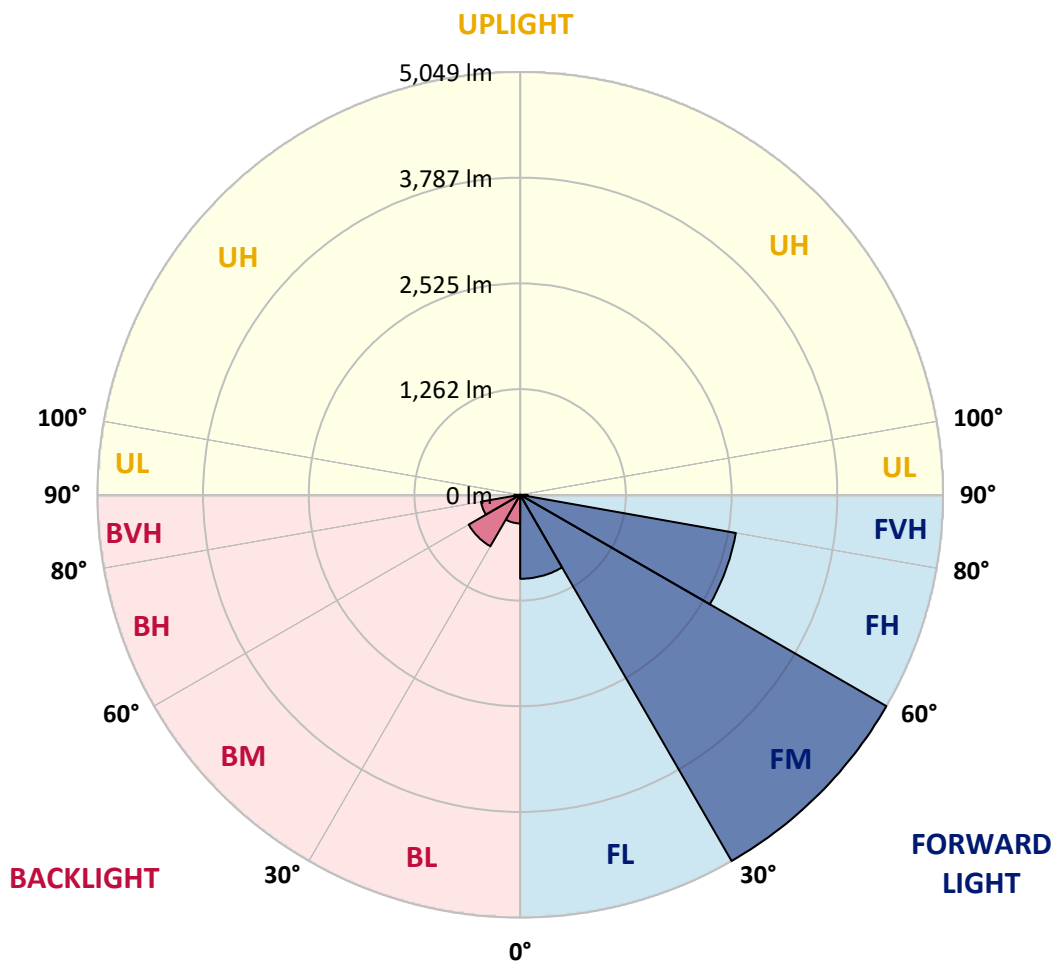
CATALOG NUMBER: GLEON-AF-02-LED-E1-T2R-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1002.7	9.7			
FM	(30°-60°)	5049.4	48.8			
FH	(60°-80°)	2615.1	25.3			G2/5000
FVH	(80°-90°)	89.6	0.9			G1/100
BL	(0°-30°)	341.4	3.3	B1/500		
BM	(30°-60°)	710.5	6.9	B1/1000		
BH	(60°-80°)	474.5	4.6	B1/500		G1/500
BVH	(80°-90°)	69.8	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°	841.4	841.4	841.4	841.4	841.4	841.4	841.4	841.4	841.4	841.4	841.4
2.5°	1068.3	1056.5	1059.4	1039.8	1015.8	984.5	949.7	949.2	949.7	946.2	933.5
5°	1481.4	1467.1	1461.8	1417.7	1353.0	1260.8	1160.9	1150.1	1145.7	1134.4	1108.4
7.5°	1782.7	1774.9	1766.6	1733.2	1674.4	1571.5	1437.3	1414.2	1392.2	1386.8	1357.4
10°	1977.3	1975.3	1957.7	1948.8	1912.1	1822.9	1692.1	1670.0	1646.0	1637.7	1606.8
12.5°	2131.1	2130.6	2122.3	2124.8	2092.9	2028.2	1915.5	1895.4	1877.8	1852.3	1830.3
15°	2237.5	2238.0	2250.2	2263.9	2259.0	2215.4	2109.6	2100.8	2085.6	2067.9	2041.9
17.5°	2324.7	2327.1	2339.9	2364.9	2391.8	2388.4	2304.6	2297.3	2284.0	2260.0	2246.3
20°	2521.7	2531.0	2506.5	2506.5	2509.4	2522.7	2482.5	2476.6	2458.0	2445.2	2434.5
22.5°	2854.4	2865.2	2809.8	2753.5	2698.1	2657.9	2617.7	2625.1	2612.3	2603.5	2597.2
25°	3286.6	3295.0	3205.3	3110.2	2997.5	2850.5	2751.0	2746.6	2739.8	2734.4	2731.4
27.5°	3693.3	3696.8	3612.0	3472.8	3342.0	3130.8	2886.3	2880.9	2872.5	2862.3	2853.4
30°	4041.3	4040.3	3953.1	3820.3	3680.1	3446.4	3091.6	3074.9	3050.4	3022.5	3000.9
32.5°	4342.6	4341.2	4245.6	4107.9	3960.9	3759.0	3372.9	3338.6	3300.3	3246.0	3213.1
35°	4579.8	4578.8	4488.7	4345.1	4176.5	4053.5	3695.3	3653.2	3604.7	3531.6	3481.2
37.5°	4669.5	4669.5	4619.0	4521.0	4372.0	4287.8	4053.5	4002.6	3950.6	3867.8	3811.0
40°	4617.1	4618.0	4628.8	4610.7	4538.2	4473.5	4387.7	4357.3	4312.7	4238.3	4179.0
42.5°	4441.1	4446.5	4518.1	4605.8	4642.0	4631.8	4684.2	4670.5	4639.1	4581.8	4534.7
45°	4218.2	4234.8	4313.2	4478.9	4671.0	4768.5	4932.6	4934.1	4928.2	4897.3	4861.1
47.5°	3911.9	3935.4	4038.8	4262.8	4603.3	4901.3	5185.0	5198.2	5210.5	5190.4	5173.7
50°	3505.2	3533.1	3688.0	3984.9	4465.6	5039.0	5661.8	5721.6	5777.4	5770.6	5781.8
52.5°	3069.5	3102.4	3292.0	3622.8	4228.9	5070.8	5966.6	6064.1	6161.6	6241.5	6326.3
55°	2676.5	2658.9	2848.5	3196.9	3839.9	4927.2	6240.5	6358.1	6466.9	6564.9	6665.9
57.5°	2143.9	2172.8	2362.9	2707.4	3324.8	4522.0	6429.2	6601.2	6757.5	6919.7	7062.8
60°	1567.1	1596.0	1802.3	2152.2	2765.7	3907.5	6285.1	6545.8	6796.2	7044.7	7238.7
62.5°	946.2	967.8	1149.6	1482.8	2132.6	3178.8	5643.2	5985.2	6353.7	6650.7	6948.1
65°	589.0	601.3	668.4	851.7	1369.6	2373.2	4610.7	4983.6	5380.5	5757.3	6066.6
67.5°	482.2	486.6	498.8	538.1	752.2	1547.5	3431.7	3762.0	4120.2	4484.7	4828.7
70°	433.7	430.7	430.7	433.2	482.2	832.1	2246.8	2461.9	2760.3	3077.4	3392.0
72.5°	391.5	388.6	383.2	375.9	393.5	507.7	1161.4	1323.6	1538.7	1820.5	2121.8
75°	351.8	347.9	341.6	332.2	344.5	383.2	557.7	625.8	730.6	880.6	1048.7
77.5°	310.7	305.8	299.9	293.0	308.7	297.9	326.8	351.4	391.5	439.6	502.8
80°	264.1	259.7	257.8	254.3	272.9	226.9	230.8	246.0	269.5	295.5	324.9
82.5°	206.8	206.8	214.6	216.1	236.7	163.2	172.5	185.7	198.0	211.7	225.4
85°	136.2	137.2	163.7	174.0	186.7	109.8	129.4	133.8	143.6	151.4	157.3
87.5°	42.6	46.1	100.0	110.7	107.3	62.2	79.4	81.3	88.2	93.6	98.5
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°	841.4	841.4	841.4	841.4	841.4	841.4	841.4	841.4	841.4	841.4	841.4
2.5°	933.5	927.6	922.2	921.7	917.8	912.4	914.4	906.1	906.6	902.1	897.2
5°	1097.7	1093.7	1074.1	1068.8	1054.1	1044.7	1043.3	1023.7	1021.2	1009.9	997.7
7.5°	1333.9	1321.1	1293.7	1280.4	1255.5	1236.8	1228.0	1202.0	1189.3	1159.9	1146.7
10°	1581.3	1565.2	1531.3	1512.7	1488.7	1458.8	1442.6	1404.9	1390.2	1363.3	1330.9
12.5°	1810.7	1794.5	1759.7	1745.5	1713.6	1681.8	1664.1	1621.5	1602.4	1559.3	1533.8
15°	2022.8	2006.7	1976.3	1961.6	1929.7	1903.8	1880.2	1838.1	1815.6	1775.4	1742.1
17.5°	2228.7	2211.5	2185.0	2171.8	2140.9	2114.5	2089.0	2049.3	2026.3	1986.1	1956.2
20°	2419.8	2407.0	2387.9	2370.3	2339.4	2315.4	2285.0	2250.7	2217.4	2188.0	2159.6
22.5°	2586.4	2581.5	2560.9	2553.0	2526.6	2506.0	2479.5	2445.7	2421.7	2384.5	2358.0
25°	2729.9	2728.5	2718.7	2716.2	2697.6	2678.0	2672.1	2644.2	2622.1	2589.3	2561.9
27.5°	2853.4	2854.9	2852.5	2859.3	2854.4	2845.6	2846.1	2836.8	2824.0	2796.6	2772.6
30°	2990.6	2982.8	2987.2	2997.0	3000.0	3000.9	3017.1	3022.5	3021.5	3003.4	2991.6
32.5°	3184.7	3166.1	3148.9	3147.5	3157.3	3161.2	3188.6	3202.8	3215.1	3219.5	3221.4
35°	3432.2	3394.9	3359.1	3340.0	3323.4	3327.8	3347.4	3370.4	3397.4	3416.0	3438.0
37.5°	3743.8	3698.2	3635.0	3590.0	3578.7	3554.2	3566.9	3585.1	3611.5	3640.4	3678.6
40°	4121.6	4052.5	3981.5	3921.7	3889.4	3844.3	3843.8	3840.4	3856.5	3883.5	3937.4
42.5°	4485.2	4424.0	4348.5	4285.8	4243.6	4183.4	4171.1	4139.3	4146.6	4170.1	4222.6
45°	4825.8	4775.3	4729.3	4656.7	4621.0	4555.8	4535.2	4497.5	4476.4	4487.2	4539.6
47.5°	5155.6	5123.3	5075.2	5028.2	5000.7	4942.4	4916.0	4889.0	4862.1	4861.1	4916.0
50°	5798.5	5781.4	5724.5	5675.5	5688.7	5617.2	5621.6	5549.1	5581.9	5585.8	5701.0
52.5°	6402.7	6462.5	6504.6	6556.1	6589.4	6595.8	6617.8	6650.7	6690.4	6768.8	6875.6
55°	6748.7	6823.6	6867.3	6906.5	6971.1	6984.9	7021.6	7065.2	7100.0	7188.2	7278.9
57.5°	7159.8	7299.0	7366.6	7428.8	7516.1	7549.4	7610.6	7658.2	7703.3	7807.6	7917.4
60°	7413.2	7582.7	7720.4	7818.9	7928.2	8006.6	8099.2	8173.7	8279.5	8404.5	8568.2
62.5°	7211.8	7460.7	7643.5	7812.5	7961.0	8111.0	8243.8	8382.9	8543.7	8732.8	8986.6
65°	6409.6	6662.9	6976.0	7151.5	7348.0	7579.3	7781.2	8006.6	8225.6	8501.0	8876.4
67.5°	5160.0	5454.5	5806.4	5983.3	6209.2	6467.4	6693.8	6969.2	7225.0	7558.7	8022.7
70°	3719.3	4100.1	4396.0	4580.8	4844.4	5110.5	5329.1	5649.5	5861.2	6203.3	6683.0
72.5°	2355.1	2655.5	3018.1	3250.9	3485.1	3754.6	3978.1	4254.4	4451.9	4763.6	5198.2
75°	1266.2	1487.7	1806.2	2027.2	2278.1	2508.5	2770.1	2955.4	3101.4	3347.9	3700.7
77.5°	593.4	728.2	889.4	1059.4	1229.5	1406.9	1579.4	1729.3	1792.0	1933.2	2141.4
80°	360.2	403.8	450.8	503.3	574.3	631.6	707.6	762.5	766.4	811.0	874.7
82.5°	240.6	256.8	271.0	284.2	302.3	316.6	332.7	351.8	359.7	370.0	390.6
85°	164.2	172.0	174.9	183.3	181.3	186.2	192.6	199.0	202.4	201.9	211.2
87.5°	100.9	104.9	106.8	108.8	107.3	105.4	108.3	111.7	112.7	109.8	110.7
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°	841.4	841.4	841.4	841.4	841.4	841.4	841.4	841.4	841.4	841.4	841.4
2.5°	898.2	893.8	889.4	886.5	885.5	859.5	848.2	840.9	825.2	812.5	802.2
5°	990.8	981.5	974.2	965.4	960.5	894.8	870.8	854.1	826.7	810.5	795.8
7.5°	1139.8	1113.8	1098.6	1081.5	1066.8	948.2	908.5	882.5	844.3	822.8	806.1
10°	1308.9	1281.9	1257.9	1231.4	1208.4	1019.3	961.4	921.3	870.8	842.8	820.8
12.5°	1497.5	1471.1	1440.7	1406.9	1377.5	1109.4	1029.1	971.7	902.6	865.4	834.5
15°	1720.5	1673.9	1637.2	1598.0	1563.7	1217.2	1108.0	1028.6	936.4	886.0	844.8
17.5°	1927.8	1878.8	1828.8	1794.5	1754.8	1338.3	1187.3	1086.4	964.4	899.2	846.8
20°	2130.2	2076.7	2033.6	1987.6	1945.9	1463.7	1272.1	1137.4	982.5	899.7	834.5
22.5°	2308.5	2275.2	2227.2	2177.2	2135.1	1589.2	1351.5	1180.5	989.4	888.4	813.0
25°	2511.4	2476.1	2417.3	2375.2	2328.1	1717.1	1429.4	1213.8	985.4	867.4	779.6
27.5°	2728.0	2688.8	2628.5	2584.4	2527.6	1849.9	1501.0	1237.8	970.7	833.0	735.0
30°	2953.9	2918.1	2858.8	2814.2	2756.9	1990.5	1580.8	1254.0	941.3	785.5	683.1
32.5°	3196.5	3166.6	3107.8	3061.2	3000.0	2142.9	1655.3	1258.9	896.8	729.2	628.2
35°	3426.8	3406.2	3356.7	3313.1	3249.4	2287.0	1734.2	1256.4	843.8	667.4	578.2
37.5°	3686.0	3673.7	3649.2	3593.9	3516.0	2482.5	1828.8	1246.1	779.1	606.2	540.0
40°	3962.4	3963.4	3936.9	3899.2	3826.6	2719.7	1941.5	1226.1	708.6	552.3	505.2
42.5°	4254.9	4270.1	4257.4	4230.4	4160.8	2958.8	2076.3	1201.6	640.0	499.8	470.9
45°	4590.1	4608.7	4628.3	4588.6	4521.0	3274.4	2253.6	1169.7	566.0	456.2	447.4
47.5°	4976.7	5006.1	5023.8	5024.3	4956.6	3665.4	2541.8	1150.6	500.3	426.8	436.1
50°	5792.6	5801.9	5843.6	5916.1	5864.2	4570.5	3045.0	1138.8	455.7	408.7	427.8
52.5°	6968.2	7070.6	7142.7	7137.8	7067.2	5145.3	3322.4	1078.1	429.3	401.8	423.9
55°	7447.0	7574.9	7708.2	7743.4	7688.6	5635.8	3584.6	1017.3	416.5	406.7	425.3
57.5°	8085.0	8300.6	8483.4	8560.3	8480.9	6263.5	3929.5	985.4	412.6	420.0	434.7
60°	8830.3	9096.9	9337.0	9475.2	9475.2	6984.9	4287.3	972.2	407.2	439.6	450.3
62.5°	9309.1	9700.6	10063.2	10265.6	10259.7	7487.1	4446.0	927.1	395.0	453.3	471.9
65°	9311.0	9776.6	10238.7	10466.0	10477.8	7425.4	4183.9	818.8	372.4	455.2	493.5
67.5°	8534.8	9031.2	9569.8	9824.1	9882.9	6835.4	3621.8	673.3	335.7	435.6	501.3
70°	7208.3	7693.0	8242.8	8492.7	8597.1	5826.9	2917.1	518.9	288.6	392.5	485.1
72.5°	5678.9	6154.3	6537.0	6719.8	6801.1	4453.9	2124.3	392.0	236.7	330.8	441.5
75°	4020.7	4377.4	4580.8	4621.5	4634.2	2684.9	1290.7	291.6	195.0	257.3	372.9
77.5°	2269.3	2422.2	2405.6	2423.7	2272.8	1036.4	562.1	208.8	160.7	195.5	289.1
80°	886.0	913.4	858.0	840.9	771.3	385.7	248.0	145.5	128.4	148.0	202.4
82.5°	390.6	403.3	391.5	394.5	377.3	199.0	148.5	105.4	98.0	108.3	134.3
85°	215.1	219.0	218.1	224.4	215.1	79.4	70.6	64.7	68.6	73.5	86.2
87.5°	104.9	105.8	102.4	107.8	104.4	40.2	34.8	36.8	40.2	41.2	41.2
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):

	135°	145°	155°	165°	175°	180°
0°	841.4	841.4	841.4	841.4	841.4	841.4
2.5°	794.8	790.9	791.4	790.4	788.5	788.5
5°	788.0	784.0	784.0	783.1	780.6	781.1
7.5°	794.8	788.5	786.0	782.6	779.1	779.1
10°	802.7	791.4	784.5	778.7	774.2	774.2
12.5°	808.5	790.9	779.6	771.8	767.4	767.4
15°	810.5	787.5	771.8	762.5	758.6	758.1
17.5°	804.1	774.2	755.1	744.4	739.5	738.0
20°	784.5	750.2	727.2	715.0	708.1	705.6
22.5°	755.1	715.9	689.0	676.2	667.4	665.9
25°	714.0	671.8	645.4	633.1	628.2	626.7
27.5°	665.9	626.7	604.2	596.4	592.0	591.5
30°	620.4	587.1	570.4	564.5	559.1	558.1
32.5°	577.7	556.7	550.3	542.0	529.2	527.8
35°	547.4	545.4	541.0	522.4	506.7	502.3
37.5°	528.7	546.9	524.3	487.6	476.3	475.3
40°	518.0	531.7	493.0	480.2	481.2	480.2
42.5°	493.5	507.7	493.9	488.1	492.0	493.0
45°	469.0	484.6	501.3	497.4	506.7	506.7
47.5°	455.2	478.8	500.8	500.8	514.5	519.4
50°	439.6	473.9	493.0	499.8	510.6	506.7
52.5°	438.6	465.5	481.7	493.9	498.8	494.4
55°	440.0	458.7	470.4	484.1	490.0	490.5
57.5°	442.0	454.7	462.6	469.0	486.6	486.6
60°	446.9	451.3	455.7	459.2	482.2	482.7
62.5°	454.7	447.9	446.9	450.3	479.7	477.8
65°	467.0	443.0	435.6	439.1	477.3	471.4
67.5°	483.7	435.6	421.4	423.9	475.3	462.6
70°	498.8	423.9	403.8	401.3	456.7	434.2
72.5°	500.3	410.2	379.3	371.9	396.9	375.4
75°	475.8	400.8	352.3	330.8	327.8	324.9
77.5°	428.8	395.5	321.0	287.2	281.3	283.2
80°	358.7	375.4	283.2	243.1	274.9	271.5
82.5°	268.0	331.3	240.6	215.1	214.6	189.6
85°	149.0	258.2	196.0	161.2	112.2	108.8
87.5°	41.7	143.6	137.2	91.1	62.2	64.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)