

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: P193941

Luminaire Tested: **GLEON-AF-03-LED-E1-T2R-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193941
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-03-LED-E1-T2R-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12482 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 124
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

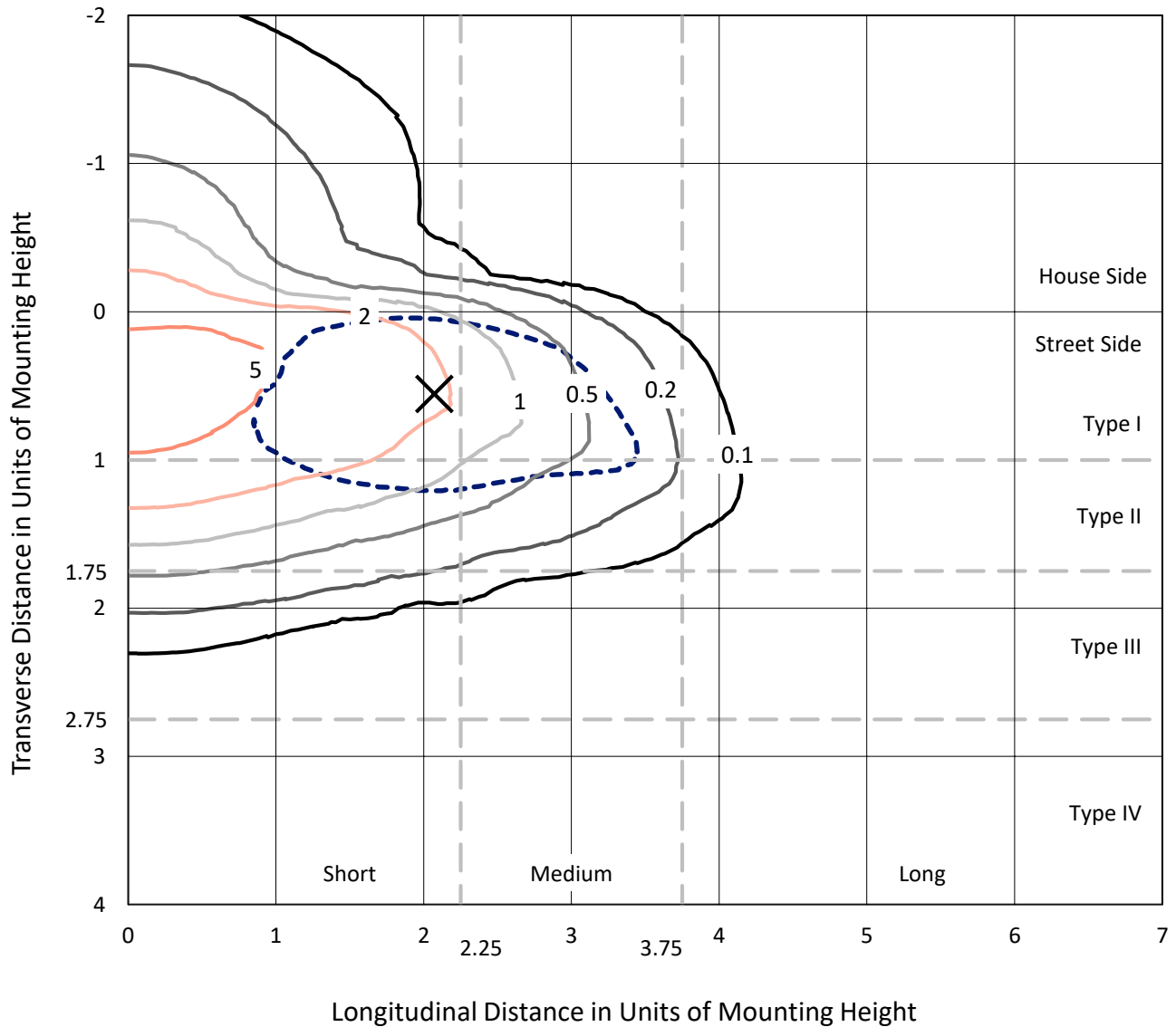


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

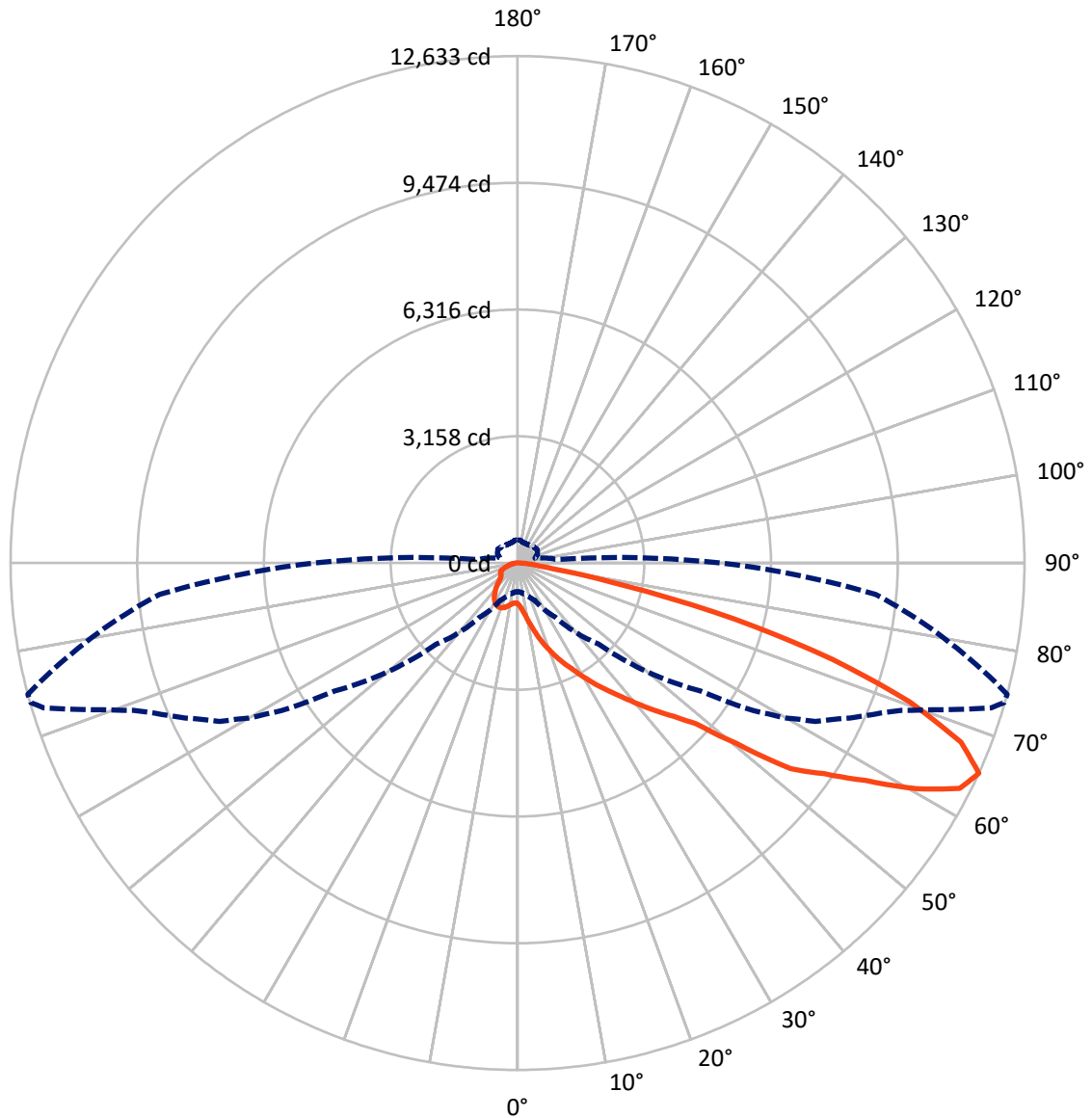


Based on 20 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - Full Cutoff

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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	1924.4	0.0	1924.4
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	10557.6	0.0	10557.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	12482.0	0.0	12482.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	1.0
10°-20°	489.9	3.9
20°-30°	1005.1	8.1
30°-40°	1691.1	13.5
40°-50°	2336.6	18.7
50°-60°	2916.7	23.4
60°-70°	2624.7	21.0
70°-80°	1100.3	8.8
80°-90°	192.2	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°	12482.0	100.0
0°-180°	12482.0	100.0



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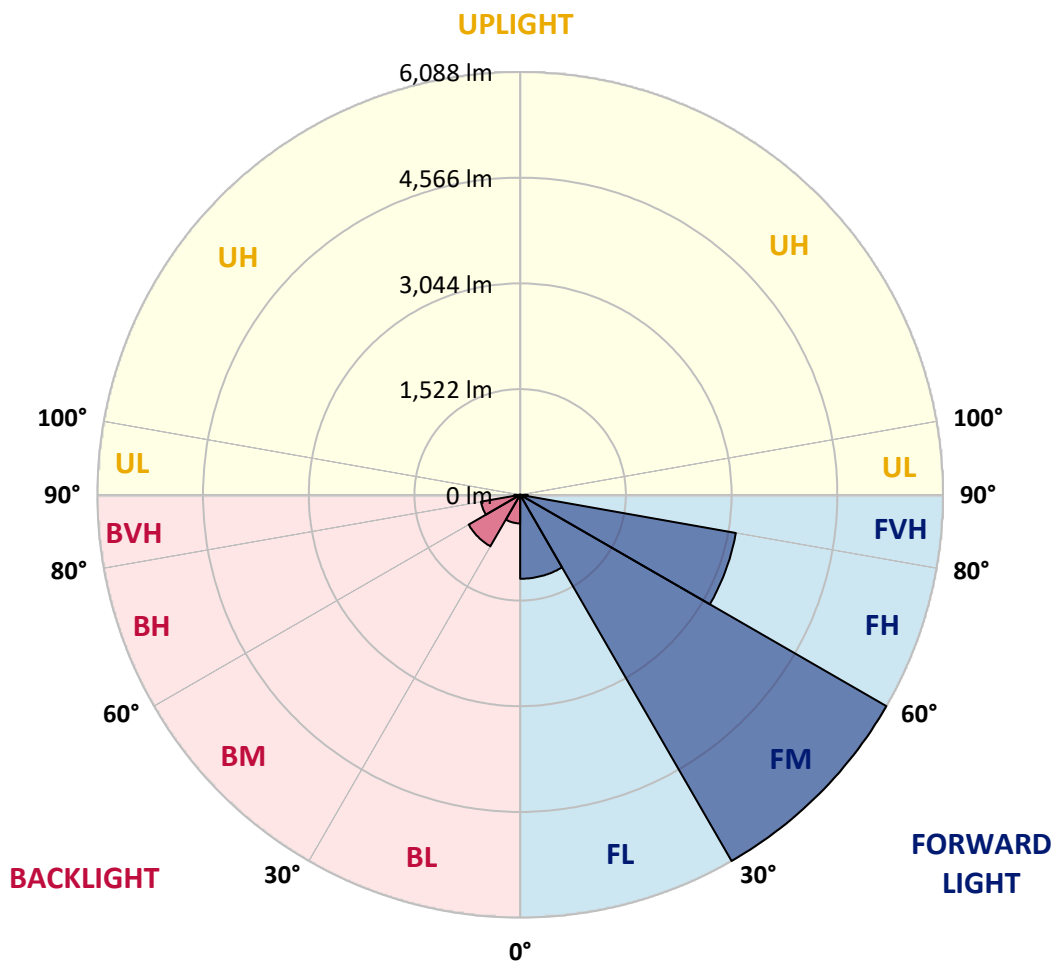
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1208.8	9.7			
FM (30°-60°)	6087.8	48.8			
FH (60°-80°)	3152.9	25.3			G2/5000
FVH (80°-90°)	108.0	0.9			G2/225
BL (0°-30°)	411.6	3.3	B1/500		
BM (30°-60°)	856.6	6.9	B1/1000		
BH (60°-80°)	572.1	4.6	B2/1000		G2/1000
BVH (80°-90°)	84.2	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1014.4	1014.4	1014.4	1014.4	1014.4	1014.4	1014.4	1014.4	1014.4	1014.4	1014.4
2.5°	1287.9	1273.8	1277.3	1253.7	1224.7	1186.9	1145.0	1144.4	1145.0	1140.8	1125.5
5°	1786.0	1768.9	1762.4	1709.2	1631.2	1520.1	1399.6	1386.6	1381.3	1367.7	1336.4
7.5°	2149.3	2139.9	2129.8	2089.7	2018.8	1894.7	1732.8	1705.0	1678.5	1672.0	1636.5
10°	2383.9	2381.5	2360.2	2349.6	2305.3	2197.8	2040.0	2013.4	1984.5	1974.4	1937.2
12.5°	2569.4	2568.8	2558.7	2561.7	2523.3	2445.3	2309.4	2285.2	2263.9	2233.2	2206.6
15°	2697.6	2698.2	2712.9	2729.5	2723.6	2671.0	2543.4	2532.8	2514.4	2493.2	2461.9
17.5°	2802.7	2805.7	2821.1	2851.2	2883.7	2879.6	2778.5	2769.7	2753.7	2724.8	2708.2
20°	3040.2	3051.5	3021.9	3021.9	3025.5	3041.4	2993.0	2985.9	2963.4	2948.1	2935.1
22.5°	3441.4	3454.4	3387.6	3319.7	3252.9	3204.5	3156.0	3164.9	3149.5	3138.9	3131.2
25°	3962.5	3972.5	3864.4	3749.8	3613.9	3436.7	3316.7	3311.4	3303.2	3296.7	3293.1
27.5°	4452.8	4457.0	4354.8	4187.0	4029.2	3774.6	3479.8	3473.3	3463.3	3450.9	3440.2
30°	4872.3	4871.1	4766.0	4605.9	4436.9	4155.1	3727.3	3707.3	3677.7	3644.0	3618.1
32.5°	5235.7	5233.9	5118.7	4952.7	4775.4	4532.0	4066.5	4025.1	3979.0	3913.5	3873.9
35°	5521.6	5520.4	5411.7	5238.6	5035.4	4887.1	4455.2	4404.4	4345.9	4257.9	4197.0
37.5°	5629.7	5629.7	5568.9	5450.7	5271.1	5169.5	4887.1	4825.6	4763.0	4663.2	4594.6
40°	5566.5	5567.7	5580.7	5558.8	5471.4	5393.4	5290.0	5253.4	5199.6	5109.8	5038.3
42.5°	5354.4	5360.9	5447.2	5552.9	5596.6	5584.2	5647.4	5630.9	5593.1	5524.0	5467.3
45°	5085.6	5105.7	5200.2	5399.9	5631.5	5749.1	5947.0	5948.8	5941.7	5904.4	5860.7
47.5°	4716.3	4744.7	4869.4	5139.4	5550.0	5909.2	6251.2	6267.2	6282.0	6257.7	6237.7
50°	4226.0	4259.7	4446.4	4804.4	5383.9	6075.2	6826.1	6898.2	6965.5	6957.2	6970.8
52.5°	3700.8	3740.3	3969.0	4367.8	5098.6	6113.6	7193.6	7311.1	7428.7	7525.0	7627.2
55°	3226.9	3205.7	3434.3	3854.4	4629.5	5940.5	7523.8	7665.6	7796.8	7914.9	8036.6
57.5°	2584.7	2619.6	2848.8	3264.2	4008.6	5451.9	7751.3	7958.6	8147.1	8342.7	8515.2
60°	1889.4	1924.2	2173.0	2594.8	3334.5	4711.0	7577.6	7891.9	8193.8	8493.3	8727.3
62.5°	1140.8	1166.8	1386.0	1787.8	2571.2	3832.5	6803.6	7216.0	7660.3	8018.3	8376.9
65°	710.1	724.9	805.8	1026.8	1651.3	2861.2	5558.8	6008.4	6487.0	6941.3	7314.1
67.5°	581.3	586.7	601.4	648.7	906.9	1865.7	4137.4	4535.6	4967.4	5407.0	5821.7
70°	522.9	519.3	519.3	522.3	581.3	1003.2	2708.8	2968.2	3328.0	3710.2	4089.5
72.5°	472.0	468.5	462.0	453.1	474.4	612.1	1400.2	1595.7	1855.1	2194.8	2558.2
75°	424.2	419.5	411.8	400.6	415.3	462.0	672.3	754.4	880.9	1061.7	1264.3
77.5°	374.6	368.7	361.6	353.3	372.2	359.2	394.1	423.6	472.0	529.9	606.2
80°	318.4	313.1	310.8	306.6	329.1	273.5	278.3	296.6	324.9	356.3	391.7
82.5°	249.3	249.3	258.8	260.5	285.4	196.7	208.0	223.9	238.7	255.2	271.8
85°	164.2	165.4	197.3	209.7	225.1	132.3	156.0	161.3	173.1	182.6	189.6
87.5°	51.4	55.5	120.5	133.5	129.4	75.0	95.7	98.1	106.3	112.8	118.8
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°	1014.4	1014.4	1014.4	1014.4	1014.4	1014.4	1014.4	1014.4	1014.4	1014.4	1014.4
2.5°	1125.5	1118.4	1111.9	1111.3	1106.6	1100.1	1102.4	1092.4	1093.0	1087.7	1081.8
5°	1323.4	1318.7	1295.0	1288.5	1270.8	1259.6	1257.8	1234.2	1231.2	1217.6	1202.9
7.5°	1608.2	1592.8	1559.7	1543.8	1513.6	1491.2	1480.5	1449.2	1433.9	1398.4	1382.5
10°	1906.5	1887.0	1846.2	1823.8	1794.8	1758.8	1739.3	1693.8	1676.1	1643.6	1604.6
12.5°	2183.0	2163.5	2121.6	2104.4	2066.0	2027.6	2006.4	1955.0	1931.9	1879.9	1849.2
15°	2438.8	2419.3	2382.7	2365.0	2326.6	2295.3	2266.9	2216.1	2188.9	2140.5	2100.3
17.5°	2687.0	2666.3	2634.4	2618.4	2581.2	2549.3	2518.6	2470.7	2443.0	2394.5	2358.5
20°	2917.4	2902.0	2879.0	2857.7	2820.5	2791.5	2754.9	2713.5	2673.4	2637.9	2603.6
22.5°	3118.2	3112.3	3087.5	3078.1	3046.2	3021.3	2989.4	2948.7	2919.7	2874.8	2842.9
25°	3291.3	3289.6	3277.8	3274.8	3252.3	3228.7	3221.6	3187.9	3161.4	3121.8	3088.7
27.5°	3440.2	3442.0	3439.0	3447.3	3441.4	3430.8	3431.4	3420.1	3404.8	3371.7	3342.7
30°	3605.6	3596.2	3601.5	3613.3	3616.9	3618.1	3637.5	3644.0	3642.9	3621.0	3606.8
32.5°	3839.6	3817.2	3796.5	3794.7	3806.5	3811.2	3844.3	3861.5	3876.2	3881.5	3883.9
35°	4138.0	4093.1	4049.9	4026.9	4006.8	4012.1	4035.7	4063.5	4096.0	4118.5	4145.0
37.5°	4513.7	4458.8	4382.5	4328.2	4314.6	4285.1	4300.4	4322.3	4354.2	4389.0	4435.1
40°	4969.2	4885.9	4800.2	4728.2	4689.2	4634.8	4634.2	4630.1	4649.6	4682.1	4747.1
42.5°	5407.6	5333.7	5242.7	5167.1	5116.3	5043.6	5028.9	4990.5	4999.3	5027.7	5090.9
45°	5818.2	5757.3	5701.8	5614.4	5571.2	5492.7	5467.8	5422.3	5396.9	5409.9	5473.2
47.5°	6215.8	6176.8	6118.9	6062.2	6029.1	5958.8	5926.9	5894.4	5861.9	5860.7	5926.9
50°	6990.9	6970.2	6901.7	6842.6	6858.6	6772.3	6777.6	6690.2	6729.8	6734.5	6873.4
52.5°	7719.4	7791.5	7842.3	7904.3	7944.5	7952.1	7978.7	8018.3	8066.2	8160.7	8289.5
55°	8136.5	8226.9	8279.5	8326.7	8404.7	8421.2	8465.6	8518.1	8560.1	8666.4	8775.7
57.5°	8632.2	8799.9	8881.5	8956.5	9061.7	9101.8	9175.7	9233.0	9287.4	9413.2	9545.5
60°	8937.6	9142.0	9308.0	9426.8	9558.5	9653.1	9764.7	9854.5	9982.1	10132.8	10330.1
62.5°	8694.8	8994.9	9215.3	9419.1	9598.1	9778.9	9939.0	10106.8	10300.6	10528.6	10834.7
65°	7727.6	8033.1	8410.6	8622.1	8859.0	9137.9	9381.3	9653.1	9917.1	10249.2	10701.7
67.5°	6221.1	6576.2	7000.4	7213.7	7486.0	7797.4	8070.3	8402.3	8710.7	9113.1	9672.6
70°	4484.2	4943.2	5300.1	5522.8	5840.6	6161.4	6424.9	6811.3	7066.5	7478.9	8057.3
72.5°	2839.4	3201.5	3638.7	3919.4	4201.8	4526.7	4796.1	5129.3	5367.4	5743.2	6267.2
75°	1526.6	1793.7	2177.7	2444.1	2746.6	3024.3	3339.8	3563.1	3739.2	4036.3	4461.7
77.5°	715.5	877.9	1072.3	1277.3	1482.3	1696.2	1904.1	2084.9	2160.6	2330.7	2581.8
80°	434.2	486.8	543.5	606.8	692.4	761.5	853.1	919.3	924.0	977.8	1054.6
82.5°	290.1	309.6	326.7	342.7	364.5	381.7	401.2	424.2	433.6	446.1	470.9
85°	197.9	207.4	210.9	221.0	218.6	224.5	232.2	239.9	244.0	243.4	254.6
87.5°	121.7	126.4	128.8	131.2	129.4	127.0	130.6	134.7	135.9	132.3	133.5
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	1014.4	1014.4	1014.4	1014.4	1014.4	1014.4	1014.4	1014.4	1014.4	1014.4	1014.4
2.5°	1082.9	1077.6	1072.3	1068.8	1067.6	1036.3	1022.7	1013.8	994.9	979.5	967.1
5°	1194.6	1183.4	1174.5	1163.9	1158.0	1078.8	1049.8	1029.8	996.7	977.2	959.5
7.5°	1374.2	1342.9	1324.6	1303.9	1286.2	1143.2	1095.3	1064.0	1017.9	992.0	971.9
10°	1578.0	1545.5	1516.6	1484.7	1456.9	1228.9	1159.1	1110.7	1049.8	1016.2	989.6
12.5°	1805.5	1773.6	1736.9	1696.2	1660.7	1337.6	1240.7	1171.6	1088.3	1043.4	1006.1
15°	2074.3	2018.2	1973.9	1926.6	1885.2	1467.5	1335.8	1240.1	1129.0	1068.2	1018.5
17.5°	2324.2	2265.1	2204.9	2163.5	2115.6	1613.5	1431.5	1309.8	1162.7	1084.1	1020.9
20°	2568.2	2503.8	2451.8	2396.3	2346.1	1764.7	1533.7	1371.2	1184.6	1084.7	1006.1
22.5°	2783.3	2743.1	2685.2	2624.9	2574.1	1916.0	1629.4	1423.2	1192.8	1071.1	980.1
25°	3027.8	2985.3	2914.4	2863.6	2806.9	2070.2	1723.4	1463.4	1188.1	1045.7	940.0
27.5°	3289.0	3241.7	3169.0	3115.9	3047.3	2230.3	1809.6	1492.4	1170.4	1004.4	886.2
30°	3561.3	3518.2	3446.7	3393.0	3323.8	2399.8	1905.9	1511.9	1134.9	947.1	823.6
32.5°	3853.8	3817.7	3746.8	3690.7	3616.9	2583.6	1995.7	1517.8	1081.2	879.1	757.4
35°	4131.5	4106.6	4047.0	3994.4	3917.6	2757.3	2090.8	1514.8	1017.4	804.7	697.1
37.5°	4444.0	4429.2	4399.7	4332.9	4239.0	2993.0	2204.9	1502.4	939.4	730.8	651.1
40°	4777.2	4778.4	4746.5	4701.0	4613.5	3278.9	2340.7	1478.2	854.3	665.8	609.1
42.5°	5129.9	5148.2	5132.9	5100.4	5016.5	3567.2	2503.2	1448.6	771.6	602.6	567.8
45°	5534.0	5556.5	5580.1	5532.2	5450.7	3947.7	2717.1	1410.2	682.4	550.0	539.4
47.5°	6000.2	6035.6	6056.9	6057.5	5975.9	4419.2	3064.5	1387.2	603.2	514.6	525.8
50°	6983.8	6995.1	7045.3	7132.7	7070.1	5510.4	3671.2	1373.0	549.4	492.7	515.8
52.5°	8401.2	8524.6	8611.5	8605.6	8520.5	6203.4	4005.6	1299.8	517.5	484.5	511.0
55°	8978.4	9132.6	9293.3	9335.8	9269.6	6794.8	4321.7	1226.5	502.2	490.4	512.8
57.5°	9747.6	10007.5	10227.9	10320.7	10225.0	7551.6	4737.6	1188.1	497.5	506.3	524.0
60°	10646.2	10967.6	11257.1	11423.7	11423.7	8421.2	5168.9	1172.1	491.0	529.9	542.9
62.5°	11223.4	11695.4	12132.6	12376.6	12369.6	9026.8	5360.3	1117.8	476.2	546.5	568.9
65°	11225.8	11787.0	12344.1	12618.3	12632.5	8952.4	5044.2	987.2	449.0	548.9	594.9
67.5°	10289.9	10888.4	11537.7	11844.3	11915.2	8241.1	4366.6	811.8	404.7	525.2	604.4
70°	8690.6	9274.9	9937.8	10239.1	10365.0	7025.2	3517.0	625.7	348.0	473.2	584.9
72.5°	6846.8	7419.8	7881.3	8101.6	8199.7	5369.8	2561.1	472.6	285.4	398.8	532.3
75°	4847.5	5277.6	5522.8	5571.8	5587.2	3237.0	1556.2	351.5	235.1	310.2	449.6
77.5°	2736.0	2920.3	2900.2	2922.1	2740.1	1249.5	677.6	251.7	193.8	235.7	348.6
80°	1068.2	1101.2	1034.5	1013.8	929.9	465.0	298.9	175.5	154.8	178.4	244.0
82.5°	470.9	486.2	472.0	475.6	454.9	239.9	179.0	127.0	118.2	130.6	161.9
85°	259.4	264.1	262.9	270.6	259.4	95.7	85.1	78.0	82.7	88.6	104.0
87.5°	126.4	127.6	123.5	130.0	125.8	48.4	41.9	44.3	48.4	49.6	49.6
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):

	135°	145°	155°	165°	175°	180°
0°	1014.4	1014.4	1014.4	1014.4	1014.4	1014.4
2.5°	958.3	953.5	954.1	953.0	950.6	950.6
5°	950.0	945.3	945.3	944.1	941.1	941.7
7.5°	958.3	950.6	947.6	943.5	939.4	939.4
10°	967.7	954.1	945.9	938.8	933.5	933.5
12.5°	974.8	953.5	940.0	930.5	925.2	925.2
15°	977.2	949.4	930.5	919.3	914.6	914.0
17.5°	969.5	933.5	910.4	897.4	891.5	889.7
20°	945.9	904.5	876.7	862.0	853.7	850.8
22.5°	910.4	863.2	830.7	815.3	804.7	802.9
25°	860.8	810.0	778.1	763.3	757.4	755.6
27.5°	802.9	755.6	728.5	719.0	713.7	713.1
30°	748.0	707.8	687.7	680.6	674.1	672.9
32.5°	696.6	671.1	663.5	653.4	638.1	636.3
35°	659.9	657.6	652.2	629.8	610.9	605.6
37.5°	637.5	659.3	632.2	587.8	574.3	573.1
40°	624.5	641.0	594.3	579.0	580.2	579.0
42.5°	594.9	612.1	595.5	588.4	593.2	594.3
45°	565.4	584.3	604.4	599.7	610.9	610.9
47.5°	548.9	577.2	603.8	603.8	620.3	626.2
50°	529.9	571.3	594.3	602.6	615.6	610.9
52.5°	528.8	561.3	580.8	595.5	601.4	596.1
55°	530.5	553.0	567.2	583.7	590.8	591.4
57.5°	532.9	548.3	557.7	565.4	586.7	586.7
60°	538.8	544.1	549.4	553.6	581.3	581.9
62.5°	548.3	540.0	538.8	542.9	578.4	576.0
65°	563.0	534.1	525.2	529.4	575.4	568.3
67.5°	583.1	525.2	508.1	511.0	573.1	557.7
70°	601.4	511.0	486.8	483.9	550.6	523.4
72.5°	603.2	494.5	457.3	448.4	478.5	452.6
75°	573.7	483.3	424.8	398.8	395.2	391.7
77.5°	516.9	476.8	387.0	346.2	339.1	341.5
80°	432.5	452.6	341.5	293.0	331.4	327.3
82.5°	323.2	399.4	290.1	259.4	258.8	228.6
85°	179.6	311.4	236.3	194.4	135.3	131.2
87.5°	50.2	173.1	165.4	109.9	75.0	78.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)