

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: P193150

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193150
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 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: 12270.9 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - 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

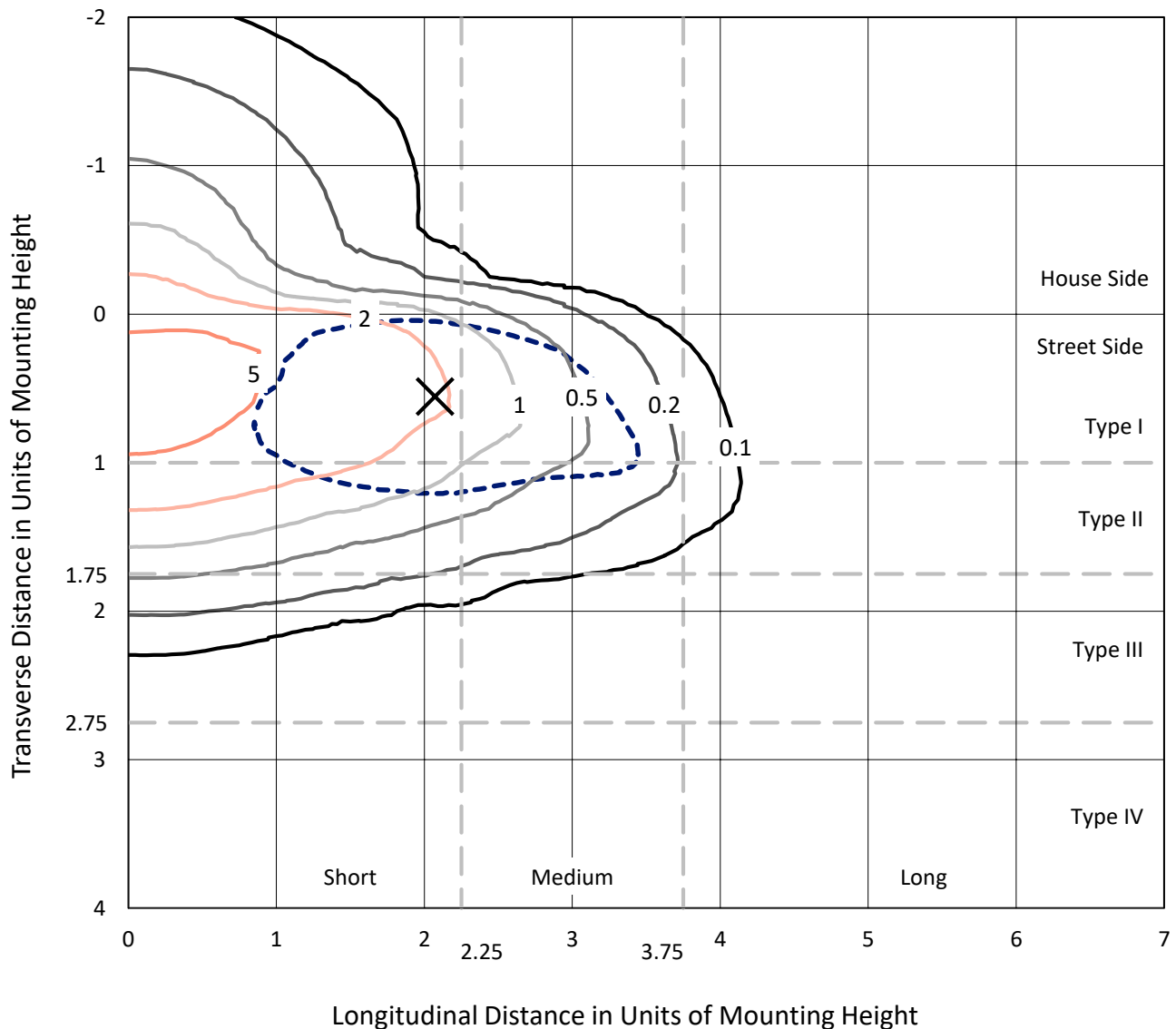


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

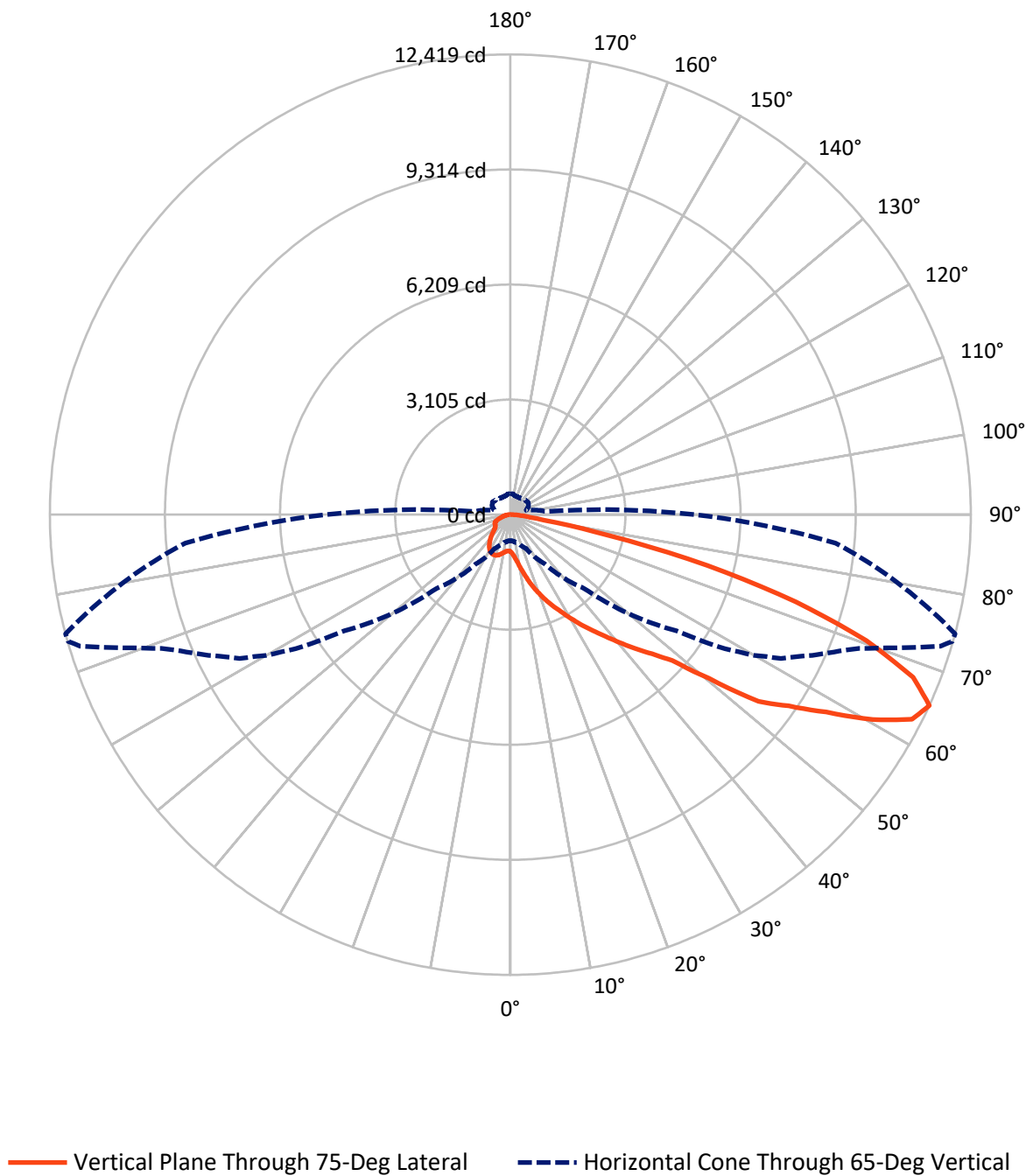


Based on 20 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1891.9	0.0	1891.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	10379.0	0.0	10379.0
	% Fixture	84.6	0.0	84.6
Total	Lumens	12270.9	0.0	12270.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	1.0
10°-20°	481.6	3.9
20°-30°	988.1	8.1
30°-40°	1662.5	13.5
40°-50°	2297.0	18.7
50°-60°	2867.4	23.4
60°-70°	2580.4	21.0
70°-80°	1081.7	8.8
80°-90°	189.0	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°	12270.9	100.0
0°-180°	12270.9	100.0

Coefficient of Utilization



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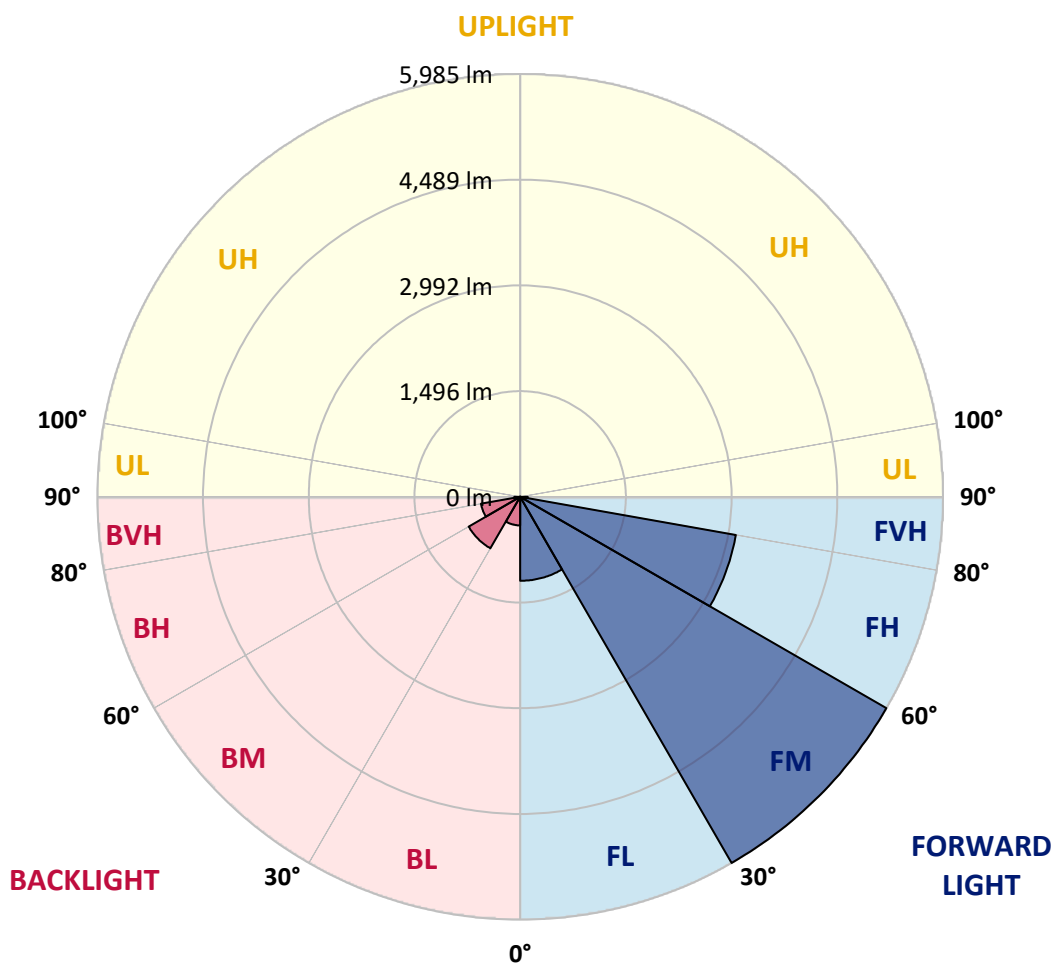
CATALOG NUMBER: GLEON-AF-02-LED-E1-T2R-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1188.4	9.7			
FM	(30°-60°)	5984.8	48.8			
FH	(60°-80°)	3099.6	25.3			G2/5000
FVH	(80°-90°)	106.2	0.9			G2/225
BL	(0°-30°)	404.6	3.3	B1/500		
BM	(30°-60°)	842.1	6.9	B1/1000		
BH	(60°-80°)	562.4	4.6	B2/1000		G2/1000
BVH	(80°-90°)	82.8	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2
2.5°	1266.2	1252.2	1255.7	1232.5	1204.0	1166.9	1125.6	1125.1	1125.6	1121.5	1106.5
5°	1755.8	1739.0	1732.6	1680.3	1603.6	1494.4	1375.9	1363.1	1357.9	1344.6	1313.8
7.5°	2113.0	2103.7	2093.9	2054.3	1984.5	1862.7	1703.5	1676.2	1650.1	1643.7	1608.9
10°	2343.6	2341.2	2320.3	2309.8	2266.2	2160.6	2005.6	1979.3	1951.0	1941.1	1904.5
12.5°	2526.0	2525.3	2515.4	2518.4	2480.6	2403.9	2270.4	2246.6	2225.6	2195.4	2169.4
15°	2651.9	2652.6	2667.0	2683.3	2677.5	2625.8	2500.4	2489.9	2471.9	2451.0	2420.2
17.5°	2755.3	2758.2	2773.3	2802.9	2835.0	2830.9	2731.6	2722.8	2707.1	2678.7	2662.4
20°	2988.8	2999.8	2970.9	2970.9	2974.4	2990.0	2942.4	2935.4	2913.3	2898.2	2885.4
22.5°	3383.2	3396.0	3330.3	3263.6	3197.9	3150.3	3102.6	3111.3	3096.3	3085.8	3078.3
25°	3895.4	3905.4	3799.1	3686.4	3552.8	3378.6	3260.7	3255.4	3247.3	3240.9	3237.5
27.5°	4377.6	4381.7	4281.1	4116.3	3961.0	3710.8	3420.9	3414.6	3404.7	3392.5	3382.0
30°	4789.9	4788.8	4685.4	4527.9	4361.8	4084.7	3664.3	3644.6	3615.5	3582.4	3556.8
32.5°	5147.1	5145.3	5032.2	4868.9	4694.7	4455.4	3997.7	3957.1	3911.7	3847.2	3808.3
35°	5428.2	5427.0	5320.2	5150.1	4950.2	4804.4	4379.8	4330.0	4272.4	4185.8	4126.0
37.5°	5534.5	5534.5	5474.7	5358.5	5181.9	5082.0	4804.4	4744.0	4682.5	4584.3	4516.9
40°	5472.4	5473.6	5486.4	5464.8	5378.9	5302.3	5200.5	5164.5	5111.7	5023.4	4953.2
42.5°	5263.9	5270.2	5355.1	5459.0	5502.0	5489.8	5551.9	5535.6	5498.5	5430.5	5374.8
45°	4999.6	5019.4	5112.2	5308.6	5536.2	5651.9	5846.4	5848.1	5841.2	5804.6	5761.6
47.5°	4636.6	4664.5	4786.9	5052.4	5456.1	5809.2	6145.5	6161.2	6175.8	6152.0	6132.1
50°	4154.5	4187.6	4371.1	4723.2	5292.8	5972.4	6710.6	6781.5	6847.8	6839.6	6853.0
52.5°	3638.3	3677.1	3901.8	4293.9	5012.4	6010.3	7072.0	7187.5	7303.1	7397.7	7498.3
55°	3172.4	3151.5	3376.2	3789.2	4551.2	5840.0	7396.7	7535.9	7664.9	7781.1	7900.7
57.5°	2541.1	2575.3	2800.7	3209.0	3940.8	5359.7	7620.2	7824.0	8009.4	8201.5	8371.2
60°	1857.4	1891.8	2136.2	2550.8	3278.1	4631.4	7449.4	7758.4	8055.2	8349.7	8579.7
62.5°	1121.5	1147.1	1362.6	1757.6	2527.7	3767.7	6688.6	7093.9	7530.7	7882.7	8235.3
65°	698.1	712.7	792.2	1009.4	1623.4	2812.9	5464.8	5906.8	6377.3	6823.9	7190.4
67.5°	571.5	576.8	591.3	637.7	891.5	1834.1	4067.4	4458.9	4883.5	5315.6	5723.3
70°	514.1	510.6	510.6	513.4	571.5	986.2	2662.9	2918.0	3271.7	3647.5	4020.3
72.5°	464.1	460.5	454.2	445.4	466.4	601.7	1376.5	1568.8	1823.7	2157.7	2514.9
75°	417.1	412.4	404.8	393.8	408.3	454.2	660.9	741.7	866.0	1043.8	1243.0
77.5°	368.2	362.4	355.4	347.3	365.9	353.1	387.5	416.4	464.1	520.9	595.9
80°	313.0	307.8	305.5	301.4	323.5	268.9	273.5	291.6	319.5	350.1	385.0
82.5°	245.1	245.1	254.3	256.1	280.6	193.4	204.5	220.1	234.7	250.9	267.1
85°	161.4	162.6	193.9	206.2	221.2	130.1	153.3	158.5	170.2	179.5	186.4
87.5°	50.5	54.6	118.4	131.2	127.2	73.8	94.1	96.3	104.6	110.9	116.7
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2
2.5°	1106.5	1099.4	1093.0	1092.5	1087.9	1081.4	1083.8	1073.9	1074.4	1069.3	1063.4
5°	1301.1	1296.4	1273.1	1266.8	1249.3	1238.2	1236.5	1213.4	1210.4	1197.1	1182.5
7.5°	1581.0	1565.9	1533.4	1517.6	1488.0	1465.9	1455.6	1424.7	1409.7	1374.8	1359.0
10°	1874.3	1855.1	1815.1	1793.0	1764.5	1729.0	1709.9	1665.2	1647.7	1615.8	1577.4
12.5°	2146.1	2127.0	2085.6	2068.9	2031.1	1993.3	1972.4	1921.9	1899.3	1848.1	1818.0
15°	2397.5	2378.3	2342.4	2324.9	2287.3	2256.4	2228.6	2178.6	2151.9	2104.3	2064.8
17.5°	2641.6	2621.1	2589.8	2574.1	2537.5	2506.2	2476.1	2429.0	2401.6	2354.0	2318.6
20°	2868.0	2853.0	2830.3	2809.4	2772.8	2744.3	2708.3	2667.7	2628.1	2593.3	2559.6
22.5°	3065.5	3059.7	3035.3	3026.1	2994.7	2970.2	2938.8	2898.7	2870.3	2826.2	2794.9
25°	3235.7	3234.0	3222.3	3219.5	3197.4	3174.1	3167.1	3134.0	3107.9	3069.0	3036.5
27.5°	3382.0	3383.8	3380.9	3389.0	3383.2	3372.8	3373.4	3362.4	3347.1	3314.7	3286.2
30°	3544.7	3535.4	3540.5	3552.2	3555.8	3556.8	3576.0	3582.4	3581.3	3559.7	3545.8
32.5°	3774.7	3752.6	3732.3	3730.5	3742.1	3746.8	3779.3	3796.1	3810.6	3815.9	3818.2
35°	4067.9	4023.8	3981.4	3958.8	3939.1	3944.3	3967.5	3994.8	4026.7	4048.8	4075.0
37.5°	4437.3	4383.4	4308.4	4255.0	4241.7	4212.6	4227.7	4249.2	4280.6	4314.8	4360.1
40°	4885.2	4803.2	4719.0	4648.2	4609.8	4556.4	4555.9	4551.7	4571.0	4602.9	4666.8
42.5°	5316.1	5243.6	5154.1	5079.8	5029.8	4958.4	4943.9	4906.1	4914.8	4942.7	5004.8
45°	5719.8	5659.9	5605.3	5519.4	5477.0	5399.8	5375.3	5330.6	5305.6	5318.4	5380.6
47.5°	6110.7	6072.3	6015.4	5959.6	5927.1	5858.1	5826.7	5794.7	5762.8	5761.6	5826.7
50°	6872.7	6852.4	6785.0	6726.9	6742.6	6657.8	6663.0	6577.1	6615.9	6620.7	6757.1
52.5°	7588.8	7659.7	7709.7	7770.6	7810.1	7817.7	7843.8	7882.7	7929.7	8022.7	8149.3
55°	7998.9	8087.7	8139.4	8185.9	8262.5	8278.8	8322.4	8374.0	8415.3	8519.8	8627.3
57.5°	8486.1	8651.1	8731.2	8804.9	8908.5	8947.9	9020.6	9076.8	9130.2	9254.0	9384.1
60°	8786.4	8987.4	9150.6	9267.4	9396.9	9489.8	9599.6	9687.9	9813.3	9961.3	10155.4
62.5°	8547.8	8842.8	9059.4	9259.8	9435.8	9613.5	9770.9	9935.8	10126.3	10350.5	10651.4
65°	7596.9	7897.3	8268.4	8476.4	8709.2	8983.3	9222.7	9489.8	9749.4	10075.9	10520.8
67.5°	6115.9	6465.0	6882.0	7091.7	7359.3	7665.5	7933.9	8260.2	8563.4	8958.9	9509.0
70°	4408.3	4859.7	5210.5	5429.4	5741.9	6057.3	6316.3	6696.2	6947.0	7352.5	7921.1
72.5°	2791.3	3147.4	3577.1	3853.0	4130.6	4450.1	4715.0	5042.6	5276.6	5646.0	6161.2
75°	1500.7	1763.3	2140.8	2402.8	2700.2	2973.2	3283.3	3502.9	3675.9	3968.1	4386.2
77.5°	703.4	863.0	1054.2	1255.7	1457.2	1667.6	1871.9	2049.7	2124.0	2291.2	2538.1
80°	426.8	478.5	534.4	596.4	680.6	748.7	838.7	903.7	908.4	961.3	1036.8
82.5°	285.1	304.4	321.2	336.8	358.4	375.2	394.3	417.1	426.3	438.4	462.9
85°	194.6	203.9	207.4	217.2	214.9	220.7	228.3	235.8	239.9	239.3	250.3
87.5°	119.6	124.3	126.6	128.9	127.2	124.9	128.4	132.4	133.7	130.1	131.2
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2
2.5°	1064.6	1059.4	1054.2	1050.6	1049.6	1018.8	1005.4	996.7	978.1	963.0	950.8
5°	1174.4	1163.4	1154.7	1144.2	1138.4	1060.6	1032.1	1012.4	979.8	960.6	943.2
7.5°	1351.0	1320.2	1302.2	1281.8	1264.4	1123.8	1076.9	1046.0	1000.7	975.1	955.5
10°	1551.4	1519.4	1491.0	1459.6	1432.3	1208.1	1139.6	1091.9	1032.1	998.9	972.9
12.5°	1774.9	1743.6	1707.6	1667.6	1632.7	1314.9	1219.7	1151.7	1069.8	1025.7	989.2
15°	2039.3	1984.0	1940.5	1894.0	1853.4	1442.8	1313.2	1219.2	1110.0	1050.1	1001.4
17.5°	2284.9	2226.8	2167.6	2127.0	2079.9	1586.2	1407.3	1287.6	1143.1	1065.9	1003.6
20°	2524.8	2461.5	2410.4	2355.7	2306.4	1734.8	1507.8	1348.0	1164.4	1066.4	989.2
22.5°	2736.2	2696.7	2639.8	2580.4	2530.6	1883.5	1601.8	1399.2	1172.7	1053.0	963.5
25°	2976.7	2934.8	2865.1	2815.2	2759.5	2035.2	1694.2	1438.6	1168.0	1028.0	924.2
27.5°	3233.3	3186.9	3115.4	3063.2	2995.8	2192.5	1779.0	1467.2	1150.6	987.3	871.3
30°	3501.1	3458.7	3388.4	3335.5	3267.6	2359.2	1873.7	1486.3	1115.7	931.0	809.6
32.5°	3788.6	3753.2	3683.4	3628.3	3555.8	2539.8	1962.0	1492.1	1062.9	864.2	744.6
35°	4061.6	4037.2	3978.5	3926.9	3851.3	2710.6	2055.5	1489.2	1000.2	791.0	685.4
37.5°	4368.8	4354.3	4325.2	4259.7	4167.2	2942.4	2167.6	1476.9	923.5	718.5	640.0
40°	4696.4	4697.6	4666.3	4621.4	4535.6	3223.4	2301.1	1453.1	839.8	654.6	598.8
42.5°	5043.2	5061.1	5046.0	5014.1	4931.6	3506.9	2460.8	1424.0	758.6	592.4	558.2
45°	5440.4	5462.5	5485.7	5438.7	5358.5	3881.0	2671.2	1386.4	670.9	540.8	530.2
47.5°	5898.7	5933.6	5954.4	5955.0	5874.9	4344.4	3012.6	1363.8	592.9	505.9	516.9
50°	6865.8	6876.8	6926.2	7012.0	6950.5	5417.2	3609.2	1349.8	540.2	484.3	507.1
52.5°	8259.1	8380.5	8465.9	8460.1	8376.4	6098.6	3937.9	1277.8	508.8	476.3	502.4
55°	8826.5	8978.2	9136.1	9177.9	9112.9	6679.9	4248.6	1205.7	493.7	482.1	504.1
57.5°	9582.7	9838.2	10054.9	10146.2	10052.1	7423.8	4657.5	1168.0	489.1	497.7	515.1
60°	10466.2	10782.1	11066.7	11230.5	11230.5	8278.8	5081.4	1152.3	482.6	520.9	533.7
62.5°	11033.5	11497.7	11927.5	12167.3	12160.3	8874.1	5269.7	1098.9	468.1	537.2	559.3
65°	11035.9	11587.7	12135.4	12404.9	12418.9	8801.0	4958.9	970.6	441.4	539.5	584.9
67.5°	10115.9	10704.2	11342.5	11644.0	11713.6	8101.7	4292.8	798.0	397.8	516.4	594.2
70°	8543.6	9118.1	9769.8	10065.9	10189.6	6906.4	3457.5	615.0	342.1	465.2	575.0
72.5°	6731.0	7294.3	7748.0	7964.6	8061.0	5279.0	2517.8	464.7	280.6	392.0	523.4
75°	4765.6	5188.4	5429.4	5477.6	5492.7	3182.2	1529.8	345.6	231.2	305.0	442.0
77.5°	2689.8	2870.9	2851.2	2872.7	2693.8	1228.4	666.2	247.5	190.5	231.7	342.6
80°	1050.1	1082.6	1016.9	996.7	914.2	457.1	293.9	172.5	152.2	175.4	239.9
82.5°	462.9	478.0	464.1	467.5	447.2	235.8	176.0	124.9	116.2	128.4	159.2
85°	255.0	259.6	258.5	266.0	255.0	94.1	83.6	76.7	81.3	87.1	102.2
87.5°	124.3	125.4	121.4	127.8	123.7	47.6	41.2	43.6	47.6	48.8	48.8
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):

	135°	145°	155°	165°	175°	180°
0°	997.2	997.2	997.2	997.2	997.2	997.2
2.5°	942.1	937.5	938.0	936.8	934.5	934.5
5°	933.9	929.2	929.2	928.1	925.2	925.8
7.5°	942.1	934.5	931.7	927.5	923.5	923.5
10°	951.3	938.0	929.9	922.9	917.7	917.7
12.5°	958.3	937.5	924.2	914.7	909.6	909.6
15°	960.6	933.4	914.7	903.7	899.1	898.5
17.5°	953.1	917.7	895.1	882.3	876.5	874.7
20°	929.9	889.3	861.9	847.5	839.2	836.4
22.5°	895.1	848.5	816.6	801.5	791.0	789.3
25°	846.2	796.3	765.0	750.4	744.6	742.9
27.5°	789.3	742.9	716.0	706.8	701.7	701.0
30°	735.4	695.8	676.1	669.1	662.6	661.6
32.5°	684.7	659.8	652.3	642.3	627.2	625.5
35°	648.8	646.5	641.3	619.2	600.6	595.4
37.5°	626.7	648.2	621.4	577.9	564.6	563.3
40°	613.9	630.2	584.3	569.2	570.4	569.2
42.5°	584.9	601.7	585.4	578.5	583.1	584.3
45°	555.8	574.3	594.2	589.6	600.6	600.6
47.5°	539.5	567.5	593.6	593.6	609.8	615.6
50°	520.9	561.6	584.3	592.4	605.2	600.6
52.5°	519.8	551.8	570.9	585.4	591.3	586.0
55°	521.6	543.7	557.6	573.8	580.8	581.4
57.5°	523.9	538.9	548.3	555.8	576.8	576.8
60°	529.7	535.0	540.2	544.2	571.5	572.1
62.5°	538.9	530.9	529.7	533.7	568.5	566.3
65°	553.5	525.1	516.4	520.4	565.8	558.8
67.5°	573.3	516.4	499.6	502.4	563.3	548.3
70°	591.3	502.4	478.5	475.8	541.3	514.6
72.5°	592.9	486.1	449.5	440.9	470.5	444.9
75°	564.0	475.1	417.6	392.0	388.5	385.0
77.5°	508.2	468.7	380.4	340.4	333.3	335.8
80°	425.1	444.9	335.8	288.1	325.8	321.8
82.5°	317.7	392.7	285.1	255.0	254.3	224.7
85°	176.6	306.0	232.2	191.1	133.0	128.9
87.5°	49.3	170.2	162.6	108.0	73.8	76.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)