

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: P193160

Luminaire Tested: **GLEON-AF-02-LED-E1-T2R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193160
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-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13461.8 lumens
Efficiency: N/A
Efficacy: 104.4 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): 129
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

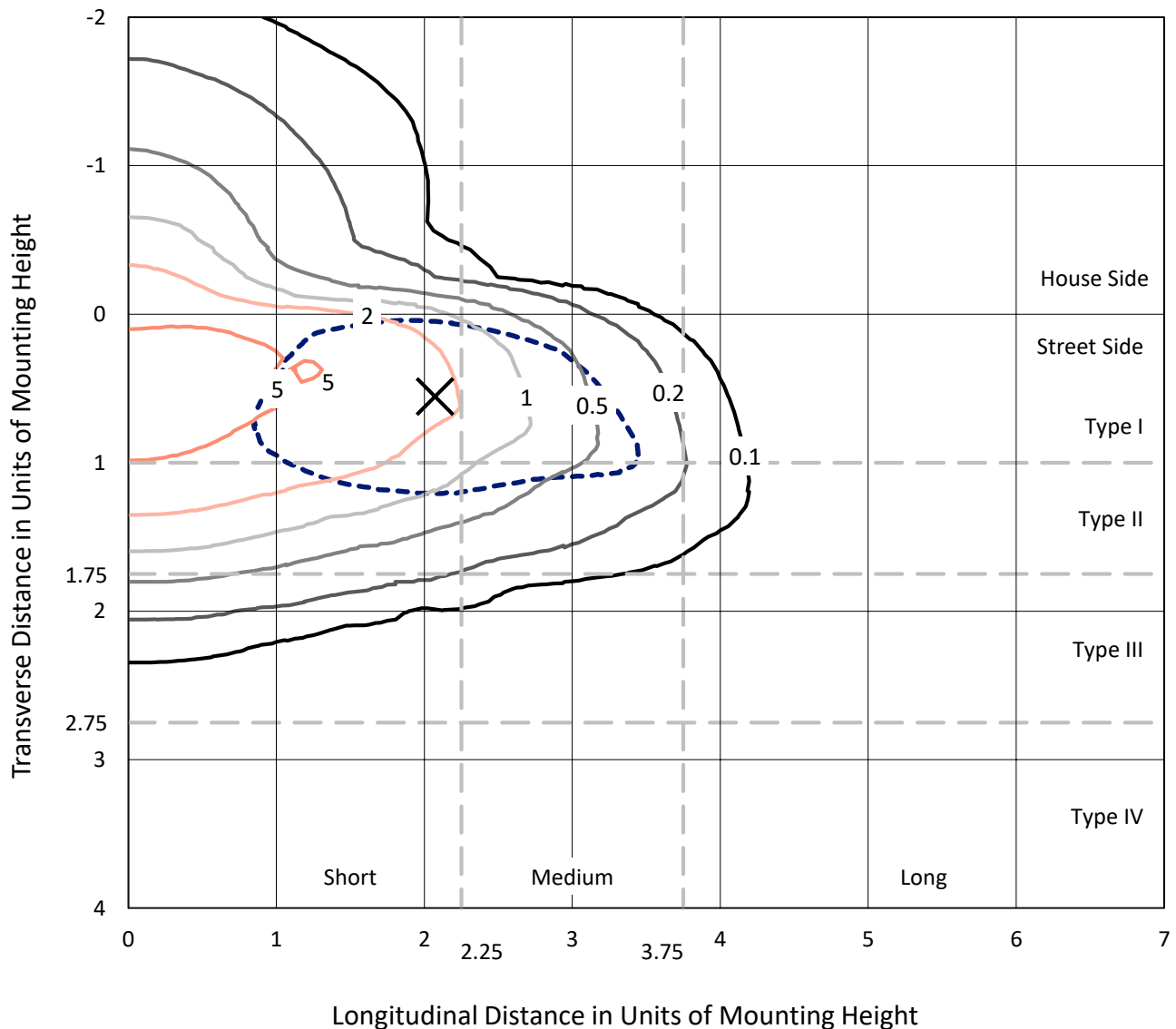


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

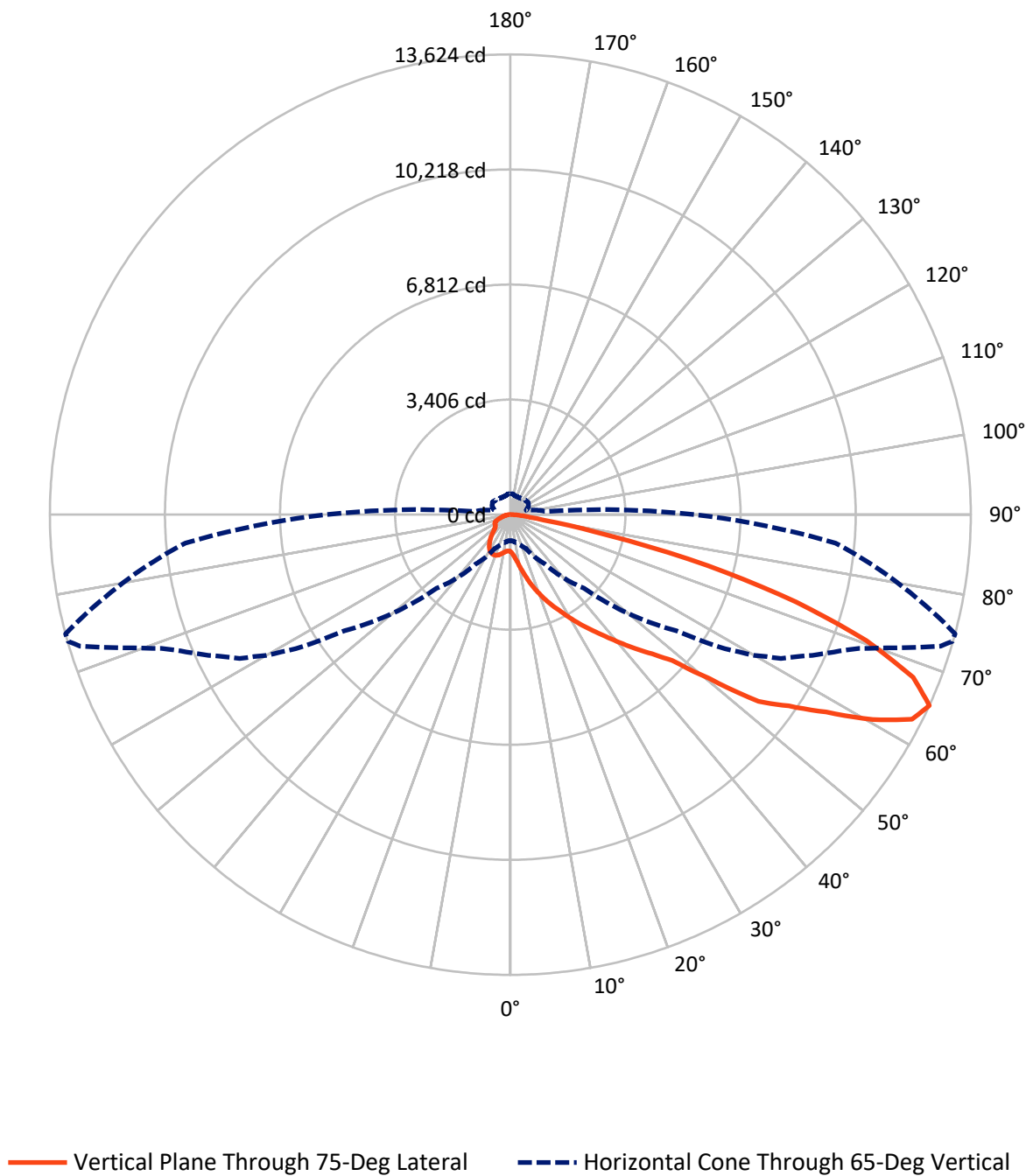


Based on 20 foot mounting height. Maximum calculated value = 8.5 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2075.5	0.0	2075.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	11386.3	0.0	11386.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	13461.8	0.0	13461.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	1.0
10°-20°	528.4	3.9
20°-30°	1084.0	8.1
30°-40°	1823.8	13.5
40°-50°	2520.0	18.7
50°-60°	3145.7	23.4
60°-70°	2830.8	21.0
70°-80°	1186.6	8.8
80°-90°	207.3	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°	13461.8	100.0
0°-180°	13461.8	100.0

Coefficient of Utilization



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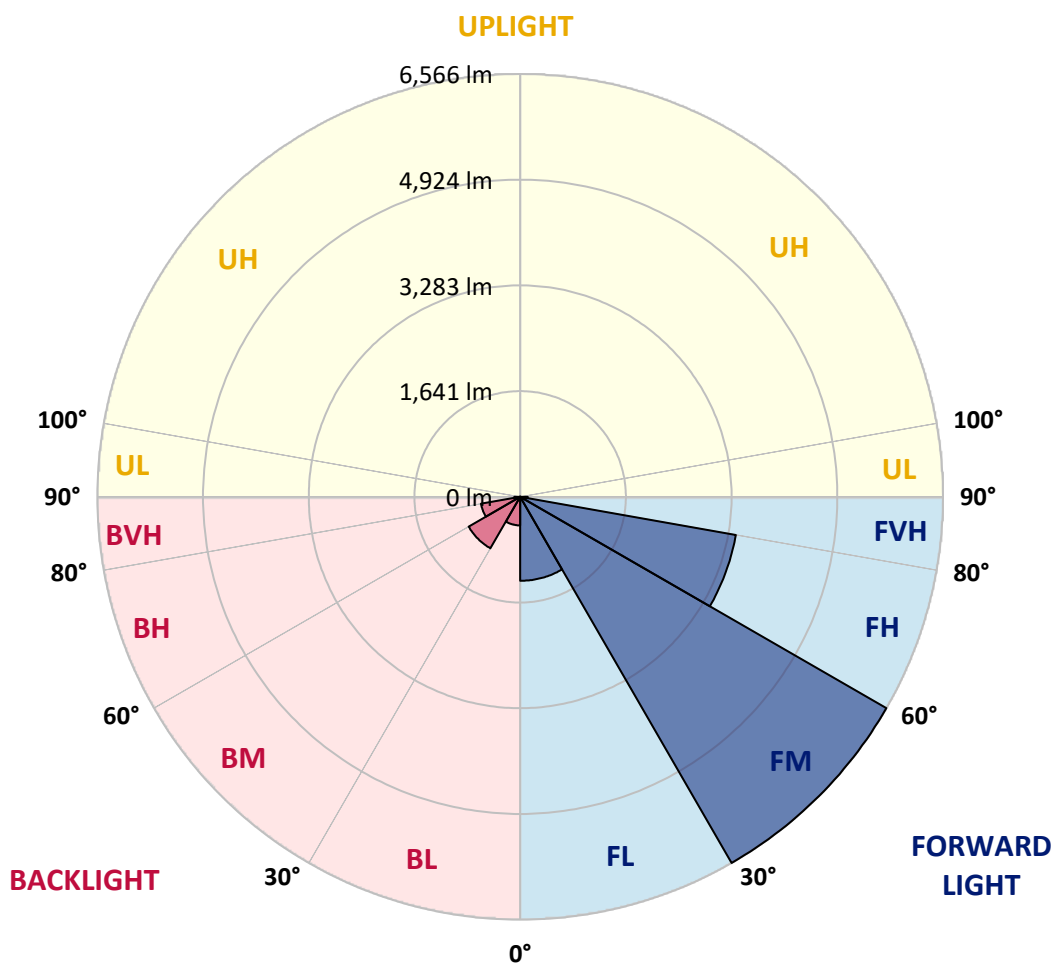
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1303.7	9.7			
FM	(30°-60°)	6565.7	48.8			
FH	(60°-80°)	3400.4	25.3			G2/5000
FVH	(80°-90°)	116.5	0.9			G2/225
BL	(0°-30°)	443.9	3.3	B1/500		
BM	(30°-60°)	923.8	6.9	B1/1000		
BH	(60°-80°)	617.0	4.6	B2/1000		G2/1000
BVH	(80°-90°)	90.8	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°	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0
2.5°	1389.0	1373.7	1377.5	1352.1	1320.8	1280.1	1234.8	1234.2	1234.8	1230.4	1213.9
5°	1926.1	1907.6	1900.7	1843.3	1759.3	1639.4	1509.4	1495.4	1489.8	1475.1	1441.2
7.5°	2318.1	2307.9	2297.0	2253.7	2177.2	2043.4	1868.9	1839.0	1810.2	1803.3	1765.0
10°	2571.0	2568.4	2545.5	2534.0	2486.3	2370.3	2200.2	2171.5	2140.3	2129.5	2089.2
12.5°	2771.1	2770.5	2759.6	2762.8	2721.4	2637.3	2490.7	2464.6	2441.6	2408.5	2379.8
15°	2909.3	2910.0	2926.0	2943.8	2937.4	2880.6	2743.1	2731.6	2711.9	2688.9	2655.1
17.5°	3022.7	3025.9	3042.6	3075.0	3110.1	3105.5	2996.7	2987.0	2969.8	2938.6	2920.8
20°	3278.9	3291.0	3259.2	3259.2	3263.0	3280.2	3227.9	3220.3	3196.1	3179.6	3165.5
22.5°	3711.5	3725.5	3653.5	3580.3	3508.4	3456.1	3403.8	3413.4	3396.8	3385.3	3376.9
25°	4273.5	4284.4	4167.8	4044.1	3897.6	3706.4	3577.1	3571.3	3562.4	3555.4	3551.6
27.5°	4802.4	4806.9	4696.6	4515.6	4345.6	4070.9	3752.9	3746.0	3735.1	3721.7	3710.2
30°	5254.9	5253.5	5140.1	4967.5	4785.2	4481.3	4019.9	3998.3	3966.4	3930.0	3902.0
32.5°	5646.6	5644.8	5520.6	5341.4	5150.3	4887.8	4385.6	4341.1	4291.3	4220.6	4178.0
35°	5955.0	5953.7	5836.5	5649.8	5430.6	5270.6	4804.9	4750.1	4687.1	4592.1	4526.5
37.5°	6071.6	6071.6	6006.0	5878.5	5684.9	5575.3	5270.6	5204.4	5137.0	5029.2	4955.4
40°	6003.5	6004.8	6018.8	5995.2	5900.9	5816.8	5705.3	5665.7	5607.8	5510.9	5433.8
42.5°	5774.7	5781.8	5874.8	5988.8	6035.9	6022.6	6090.7	6072.9	6032.1	5957.6	5896.4
45°	5484.9	5506.4	5608.4	5823.7	6073.6	6200.4	6413.8	6415.7	6408.0	6367.9	6320.7
47.5°	5086.6	5117.1	5251.6	5542.8	5985.7	6373.0	6742.0	6759.3	6775.0	6749.0	6727.3
50°	4557.8	4594.1	4795.4	5181.5	5806.6	6552.1	7361.9	7439.7	7512.3	7503.4	7518.0
52.5°	3991.2	4034.0	4280.6	4710.6	5498.8	6593.5	7758.3	7885.0	8011.9	8115.7	8225.9
55°	3480.2	3457.3	3703.9	4157.0	4992.9	6406.9	8114.4	8267.3	8408.8	8536.2	8667.5
57.5°	2787.6	2825.2	3072.5	3520.5	4323.3	5879.9	8359.8	8583.4	8786.6	8997.6	9183.6
60°	2037.6	2075.3	2343.5	2798.4	3596.3	5080.9	8172.4	8511.4	8837.0	9160.1	9412.3
62.5°	1230.4	1258.4	1494.7	1928.1	2773.0	4133.4	7337.8	7782.4	8261.6	8647.8	9034.5
65°	765.9	781.9	869.1	1107.5	1780.9	3085.8	5995.2	6480.0	6996.2	7486.2	7888.2
67.5°	626.9	632.7	648.7	699.6	978.1	2012.2	4462.1	4891.6	5357.4	5831.3	6278.7
70°	563.9	560.1	560.1	563.2	626.9	1081.8	2921.5	3201.2	3589.1	4001.5	4410.6
72.5°	509.1	505.4	498.2	488.7	511.7	660.2	1510.1	1721.1	2000.7	2367.1	2759.1
75°	457.5	452.5	444.1	432.0	448.0	498.2	725.2	813.7	950.0	1145.0	1363.5
77.5°	403.9	397.6	389.9	381.0	401.4	387.5	425.0	456.8	509.1	571.5	653.7
80°	343.4	337.7	335.2	330.7	354.9	295.0	300.1	319.9	350.4	384.3	422.4
82.5°	268.9	268.9	279.0	281.1	307.8	212.2	224.3	241.5	257.5	275.3	293.2
85°	177.1	178.4	212.8	226.1	242.8	142.7	168.3	173.9	186.8	196.8	204.6
87.5°	55.4	59.9	130.0	144.0	139.6	81.0	103.2	105.8	114.7	121.8	128.1
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0
2.5°	1213.9	1206.2	1199.1	1198.6	1193.4	1186.4	1189.0	1178.2	1178.8	1173.0	1166.7
5°	1427.3	1422.2	1396.7	1389.7	1370.5	1358.4	1356.6	1331.1	1327.8	1313.2	1297.4
7.5°	1734.4	1717.8	1682.1	1664.9	1632.5	1608.2	1596.8	1563.0	1546.4	1508.3	1491.0
10°	2056.1	2035.2	1991.1	1967.0	1935.7	1896.8	1875.9	1826.9	1807.7	1772.6	1730.5
12.5°	2354.3	2333.3	2288.1	2269.7	2228.3	2186.9	2163.9	2108.3	2083.6	2027.6	1994.3
15°	2630.3	2609.2	2569.8	2550.6	2509.2	2475.4	2444.9	2390.0	2360.8	2308.5	2265.2
17.5°	2897.9	2875.6	2841.2	2824.0	2783.8	2749.4	2716.3	2664.8	2634.7	2582.5	2543.5
20°	3146.3	3129.8	3104.9	3081.9	3041.9	3010.6	2971.2	2926.5	2883.3	2845.0	2808.1
22.5°	3363.0	3356.7	3329.9	3319.8	3285.3	3258.5	3224.1	3180.1	3149.0	3100.4	3066.2
25°	3549.8	3547.7	3535.1	3532.0	3507.7	3482.2	3474.6	3438.2	3409.6	3366.9	3331.2
27.5°	3710.2	3712.2	3709.1	3717.9	3711.5	3700.1	3700.7	3688.6	3672.1	3636.3	3605.1
30°	3888.6	3878.4	3884.2	3897.0	3900.8	3902.0	3923.1	3930.0	3928.9	3905.3	3889.9
32.5°	4141.0	4116.8	4094.5	4092.7	4105.3	4110.5	4146.1	4164.6	4180.5	4186.3	4188.8
35°	4462.8	4414.4	4367.8	4342.9	4321.3	4327.1	4352.6	4382.5	4417.6	4441.7	4470.5
37.5°	4868.0	4808.7	4726.5	4668.0	4653.4	4621.4	4638.0	4661.5	4696.0	4733.5	4783.3
40°	5359.2	5269.5	5177.0	5099.3	5057.3	4998.6	4997.9	4993.5	5014.6	5049.6	5119.7
42.5°	5832.0	5752.4	5654.2	5572.8	5517.9	5439.6	5423.6	5382.2	5391.8	5422.3	5490.5
45°	6274.9	6209.3	6149.4	6055.0	6008.6	5923.8	5897.0	5848.0	5820.6	5834.7	5902.8
47.5°	6703.7	6661.6	6599.3	6538.1	6502.3	6426.5	6392.1	6357.1	6322.1	6320.7	6392.1
50°	7539.7	7517.4	7443.5	7379.8	7397.0	7304.0	7309.7	7215.4	7258.1	7263.1	7412.9
52.5°	8325.3	8403.1	8457.9	8524.7	8568.1	8576.5	8605.0	8647.8	8699.3	8801.3	8940.2
55°	8775.1	8872.7	8929.4	8980.3	9064.4	9082.2	9130.1	9186.8	9232.1	9346.7	9464.6
57.5°	9309.8	9490.7	9578.6	9659.6	9773.0	9816.3	9895.9	9957.8	10016.5	10152.2	10294.9
60°	9639.2	9859.7	10038.7	10166.8	10308.8	10410.8	10531.3	10628.0	10765.8	10928.2	11141.0
62.5°	9377.2	9701.0	9938.7	10158.5	10351.6	10546.6	10719.2	10900.1	11109.2	11355.1	11685.2
65°	8334.3	8663.7	9070.8	9298.9	9554.5	9855.1	10117.7	10410.8	10695.6	11053.8	11541.8
67.5°	6709.5	7092.4	7550.0	7780.0	8073.7	8409.4	8703.8	9062.0	9394.5	9828.4	10431.8
70°	4836.2	5331.3	5716.1	5956.3	6299.2	6645.1	6929.3	7346.0	7621.3	8066.1	8689.8
72.5°	3062.3	3452.8	3924.4	4227.0	4531.6	4882.0	5172.6	5532.1	5788.8	6194.0	6759.3
75°	1646.4	1934.4	2348.6	2636.0	2962.2	3261.7	3602.0	3842.7	4032.6	4353.2	4812.0
77.5°	771.6	946.8	1156.5	1377.5	1598.7	1829.3	2053.6	2248.5	2330.2	2513.6	2784.5
80°	468.2	525.0	586.1	654.4	746.8	821.3	920.1	991.4	996.6	1054.6	1137.4
82.5°	312.8	333.9	352.4	369.6	393.2	411.6	432.6	457.5	467.7	481.1	507.8
85°	213.5	223.7	227.5	238.3	235.8	242.1	250.4	258.7	263.2	262.6	274.6
87.5°	131.2	136.3	138.9	141.5	139.6	137.0	140.8	145.4	146.5	142.7	144.0
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°	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0
2.5°	1168.0	1162.2	1156.5	1152.6	1151.4	1117.6	1103.0	1093.3	1073.0	1056.4	1043.1
5°	1288.3	1276.2	1266.8	1255.3	1248.9	1163.5	1132.3	1110.6	1074.9	1054.0	1034.8
7.5°	1482.1	1448.3	1428.6	1406.2	1387.1	1232.9	1181.3	1147.5	1097.8	1069.8	1048.2
10°	1701.9	1666.9	1635.6	1601.2	1571.2	1325.4	1250.2	1197.9	1132.3	1096.0	1067.3
12.5°	1947.2	1912.8	1873.2	1829.3	1791.1	1442.5	1338.1	1263.5	1173.7	1125.3	1085.2
15°	2237.1	2176.6	2128.8	2077.8	2033.2	1582.7	1440.7	1337.5	1217.7	1152.0	1098.5
17.5°	2506.6	2442.9	2377.9	2333.3	2281.8	1740.2	1543.9	1412.6	1254.0	1169.2	1101.0
20°	2769.8	2700.4	2644.3	2584.4	2530.2	1903.3	1654.0	1479.0	1277.6	1169.8	1085.2
22.5°	3001.8	2958.4	2895.9	2831.0	2776.2	2066.3	1757.3	1535.0	1286.4	1155.2	1057.1
25°	3265.5	3219.7	3143.2	3088.4	3027.2	2232.7	1858.6	1578.2	1281.4	1127.8	1013.7
27.5°	3547.2	3496.2	3417.8	3360.5	3286.5	2405.4	1951.7	1609.5	1262.3	1083.2	955.8
30°	3840.9	3794.3	3717.3	3659.3	3584.8	2588.3	2055.5	1630.5	1224.0	1021.3	888.3
32.5°	4156.3	4117.4	4041.0	3980.5	3900.8	2786.3	2152.4	1636.9	1166.1	948.2	816.8
35°	4455.8	4429.1	4364.7	4308.0	4225.2	2973.7	2255.0	1633.8	1097.2	867.8	751.9
37.5°	4792.8	4777.0	4745.0	4673.0	4571.7	3227.9	2377.9	1620.4	1013.2	788.2	702.2
40°	5152.2	5153.4	5119.2	5069.9	4975.6	3536.2	2524.6	1594.2	921.4	718.1	656.9
42.5°	5532.6	5552.3	5535.8	5500.7	5410.3	3847.2	2699.7	1562.4	832.1	649.9	612.3
45°	5968.4	5992.7	6018.1	5966.5	5878.5	4257.7	2930.4	1520.9	736.0	593.2	581.7
47.5°	6471.2	6509.3	6532.3	6532.9	6444.9	4766.1	3305.0	1496.1	650.5	554.9	567.0
50°	7532.0	7544.2	7598.3	7692.6	7625.1	5942.9	3959.4	1480.8	592.6	531.4	556.2
52.5°	9060.7	9193.8	9287.5	9281.1	9189.4	6690.4	4320.0	1401.8	558.2	522.5	551.1
55°	9683.2	9849.5	10022.8	10068.7	9997.3	7328.1	4660.9	1322.8	541.6	528.9	553.1
57.5°	10512.8	10793.1	11030.9	11130.8	11027.6	8144.4	5109.5	1281.4	536.5	546.1	565.2
60°	11481.9	11828.5	12140.8	12320.4	12320.4	9082.2	5574.6	1264.1	529.5	571.5	585.5
62.5°	12104.4	12613.6	13085.0	13348.2	13340.5	9735.4	5781.1	1205.5	513.5	589.4	613.6
65°	12107.0	12712.4	13313.1	13608.8	13624.1	9655.1	5440.2	1064.7	484.2	591.9	641.7
67.5°	11097.7	11743.1	12443.4	12774.1	12850.5	8888.0	4709.4	875.5	436.5	566.4	651.8
70°	9373.0	10003.0	10717.9	11043.0	11178.7	7576.7	3793.2	674.7	375.3	510.4	630.8
72.5°	7384.3	8002.2	8500.0	8737.6	8843.3	5791.3	2762.2	509.7	307.8	430.1	574.0
75°	5228.0	5691.9	5956.3	6009.3	6025.7	3491.1	1678.3	379.1	253.6	334.6	484.9
77.5°	2950.8	3149.5	3127.9	3151.5	2955.3	1347.6	730.8	271.4	209.0	254.2	376.0
80°	1152.0	1187.6	1115.6	1093.3	1002.9	501.5	322.5	189.2	166.9	192.4	263.2
82.5°	507.8	524.5	509.1	513.0	490.6	258.7	193.1	137.0	127.4	140.8	174.6
85°	279.7	284.8	283.5	291.8	279.7	103.2	91.8	84.1	89.1	95.6	112.1
87.5°	136.3	137.6	133.2	140.2	135.7	52.2	45.3	47.7	52.2	53.5	53.5
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):

	135°	145°	155°	165°	175°	180°
0°	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0
2.5°	1033.5	1028.3	1029.0	1027.8	1025.2	1025.2
5°	1024.7	1019.5	1019.5	1018.2	1015.0	1015.7
7.5°	1033.5	1025.2	1022.0	1017.5	1013.2	1013.2
10°	1043.7	1029.0	1020.2	1012.5	1006.8	1006.8
12.5°	1051.3	1028.3	1013.7	1003.5	997.9	997.9
15°	1054.0	1024.0	1003.5	991.4	986.4	985.7
17.5°	1045.6	1006.8	981.9	967.8	961.5	959.7
20°	1020.2	975.4	945.5	929.7	920.7	917.6
22.5°	981.9	930.9	895.8	879.3	867.8	865.9
25°	928.3	873.5	839.1	823.3	816.8	815.0
27.5°	865.9	815.0	785.7	775.4	769.7	769.0
30°	806.7	763.2	741.7	734.0	727.0	725.7
32.5°	751.2	723.9	715.5	704.7	688.2	686.2
35°	711.8	709.2	703.4	679.3	658.9	653.2
37.5°	687.5	711.1	681.8	634.0	619.3	618.1
40°	673.5	691.3	641.1	624.4	625.7	624.4
42.5°	641.7	660.2	642.2	634.6	639.7	641.1
45°	609.7	630.2	651.8	646.7	658.9	658.9
47.5°	591.9	622.6	651.1	651.1	669.0	675.4
50°	571.5	616.1	641.1	649.9	664.0	658.9
52.5°	570.3	605.3	626.4	642.2	648.7	642.9
55°	572.2	596.4	611.8	629.6	637.2	637.8
57.5°	574.7	591.3	601.5	609.7	632.7	632.7
60°	581.1	586.8	592.6	597.0	626.9	627.5
62.5°	591.3	582.4	581.1	585.5	623.8	621.2
65°	607.3	576.1	566.4	570.9	620.6	613.0
67.5°	628.9	566.4	547.9	551.1	618.1	601.5
70°	648.7	551.1	525.0	521.8	593.9	564.6
72.5°	650.5	533.3	493.2	483.6	516.1	488.1
75°	618.7	521.1	458.2	430.1	426.2	422.4
77.5°	557.6	514.2	417.4	373.3	365.7	368.3
80°	466.4	488.1	368.3	316.1	357.5	353.0
82.5°	348.5	430.7	312.8	279.7	279.0	246.6
85°	193.7	335.8	254.9	209.7	145.9	141.5
87.5°	54.2	186.8	178.4	118.5	81.0	84.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)