

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: P194760

Luminaire Tested: **GLEON-AF-02-LED-E1-T2R-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194760
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-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 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: 13919 lumens
Efficiency: N/A
Efficacy: 107.9 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



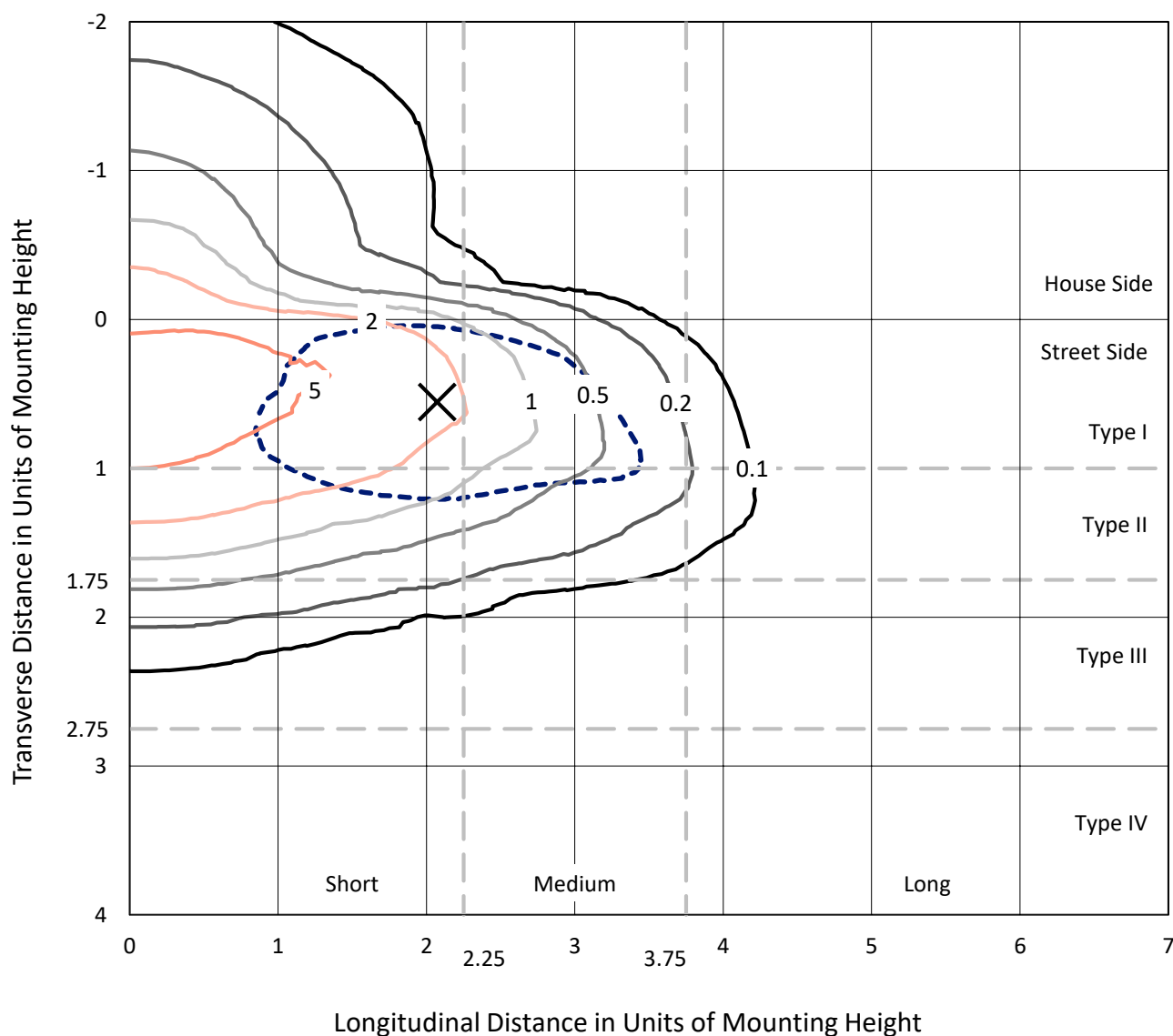
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

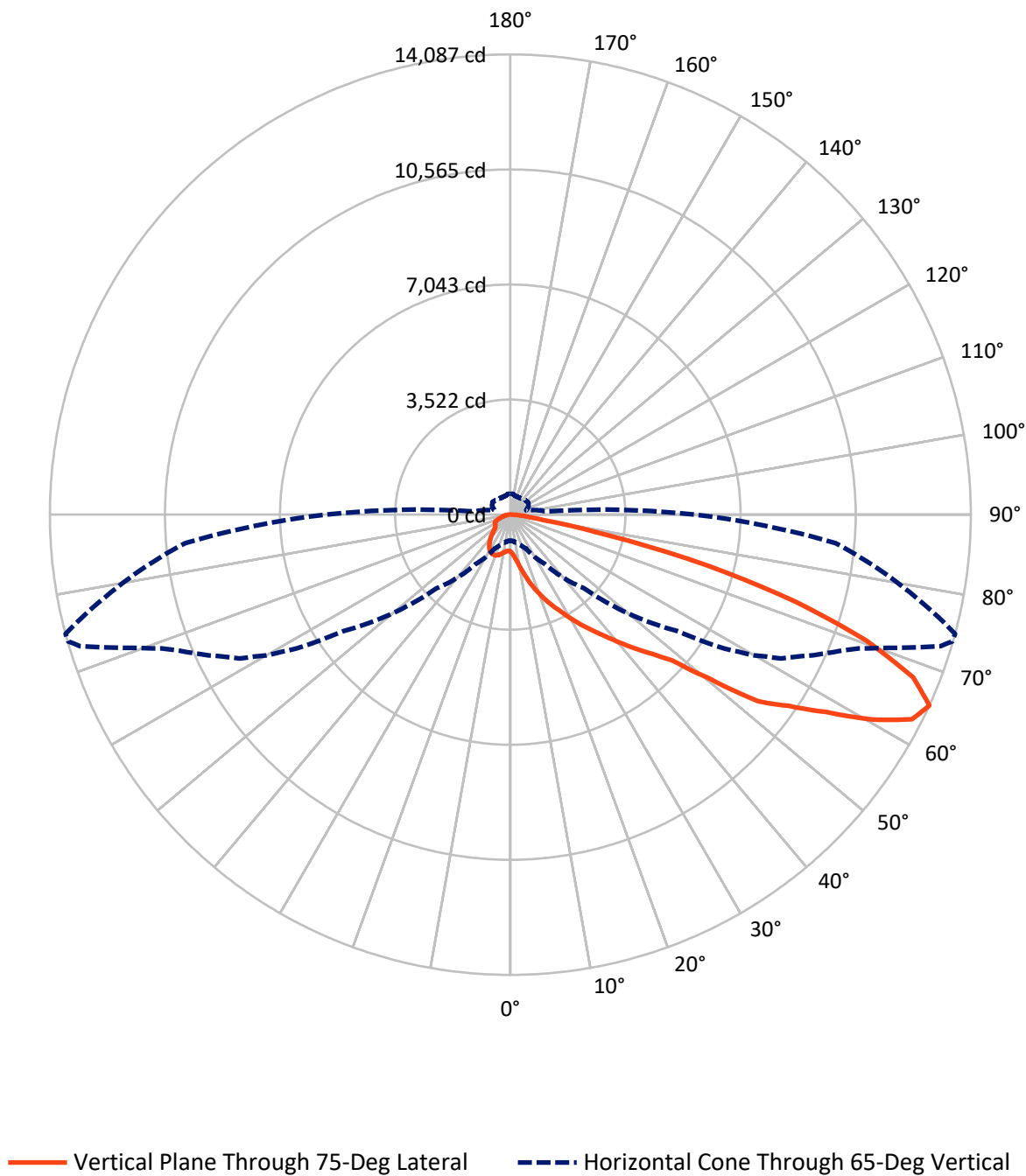


Based on 20 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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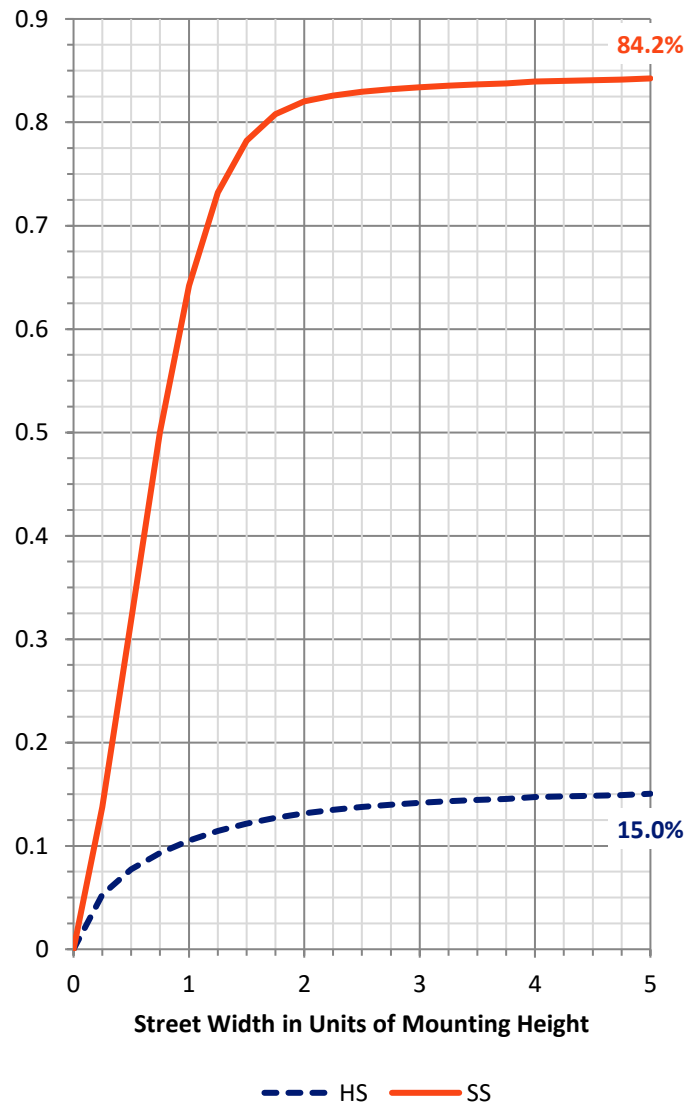
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2146.0	0.0	2146.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	11773.0	0.0	11773.0
	% Fixture	84.6	0.0	84.6
Total	Lumens	13919.0	0.0	13919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	1.0
10°-20°	546.3	3.9
20°-30°	1120.8	8.1
30°-40°	1885.7	13.5
40°-50°	2605.6	18.7
50°-60°	3252.5	23.4
60°-70°	2926.9	21.0
70°-80°	1226.9	8.8
80°-90°	214.4	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°	13919.0	100.0
0°-180°	13919.0	100.0

Coefficient of Utilization



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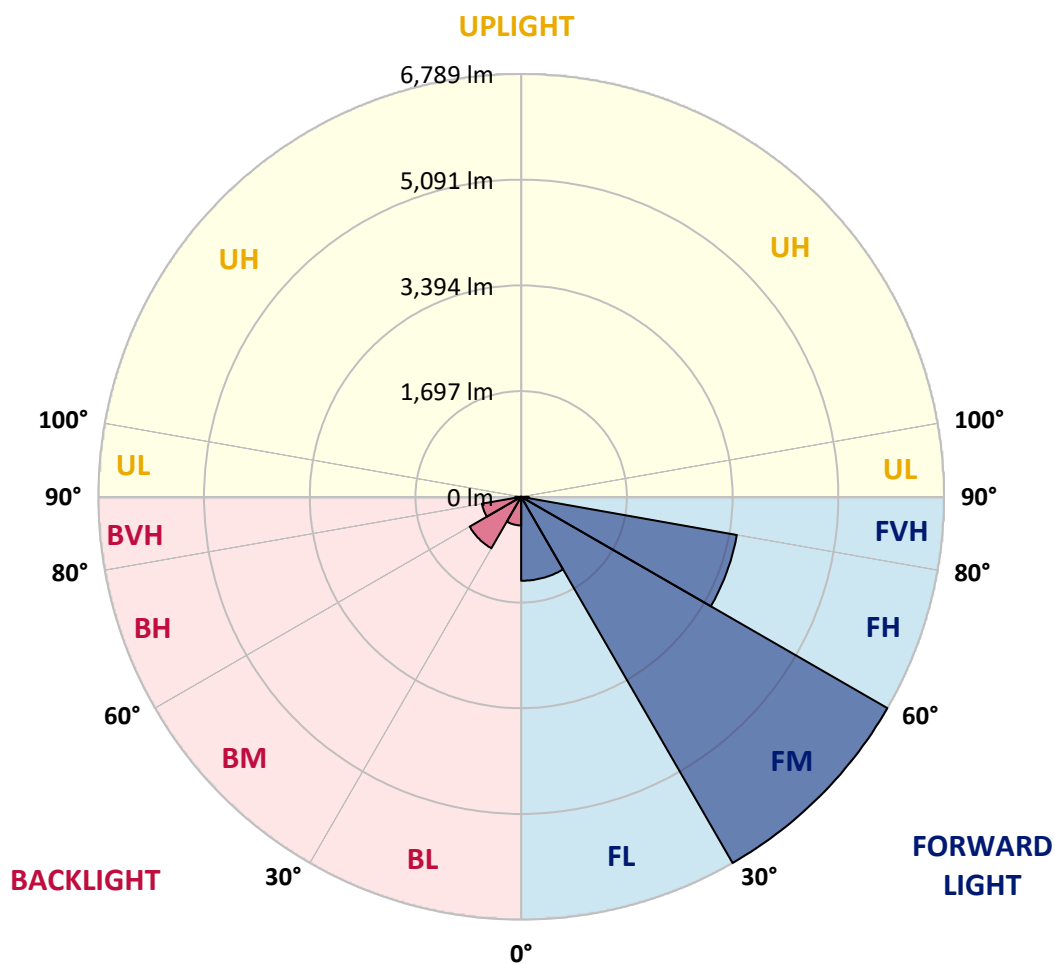
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1348.0	9.7			
FM	(30°-60°)	6788.6	48.8			
FH	(60°-80°)	3515.9	25.3			G2/5000
FVH	(80°-90°)	120.5	0.9			G2/225
BL	(0°-30°)	458.9	3.3	B1/500		
BM	(30°-60°)	955.2	6.9	B1/1000		
BH	(60°-80°)	638.0	4.6	B2/1000		G2/1000
BVH	(80°-90°)	93.9	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°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2
2.5°	1436.2	1420.4	1424.4	1398.0	1365.7	1323.6	1276.8	1276.1	1276.8	1272.2	1255.0
5°	1991.6	1972.5	1965.2	1906.0	1819.0	1695.1	1560.7	1546.2	1540.3	1525.2	1490.2
7.5°	2396.8	2386.2	2375.0	2330.2	2251.2	2112.8	1932.3	1901.3	1871.7	1864.4	1824.9
10°	2658.3	2655.7	2632.0	2620.1	2570.7	2450.8	2274.9	2245.2	2213.0	2201.8	2160.3
12.5°	2865.2	2864.5	2853.3	2856.6	2813.8	2726.8	2575.3	2548.3	2524.6	2490.3	2460.7
15°	3008.1	3008.8	3025.3	3043.7	3037.1	2978.5	2836.2	2824.3	2803.9	2780.2	2745.3
17.5°	3125.4	3128.7	3145.8	3179.4	3215.7	3211.1	3098.4	3088.5	3070.7	3038.5	3020.0
20°	3390.3	3402.8	3369.8	3369.8	3373.8	3391.6	3337.6	3329.6	3304.6	3287.5	3273.0
22.5°	3837.6	3852.1	3777.6	3701.9	3627.4	3573.4	3519.4	3529.3	3512.1	3500.3	3491.7
25°	4418.7	4429.9	4309.3	4181.5	4030.0	3832.3	3698.6	3692.7	3683.4	3676.2	3672.2
27.5°	4965.5	4970.1	4856.1	4669.0	4493.1	4209.2	3880.4	3873.2	3862.0	3848.1	3836.3
30°	5433.2	5431.9	5314.7	5136.1	4947.7	4633.4	4156.5	4134.1	4101.1	4063.6	4034.6
32.5°	5838.4	5836.4	5708.0	5522.8	5325.2	5053.8	4534.6	4488.5	4437.1	4364.0	4319.8
35°	6157.3	6156.0	6034.7	5841.7	5615.1	5449.7	4968.1	4911.5	4846.2	4748.1	4680.2
37.5°	6277.8	6277.8	6210.0	6078.2	5877.9	5764.6	5449.7	5381.2	5311.4	5200.0	5123.6
40°	6207.4	6208.7	6223.2	6198.8	6101.3	6014.3	5899.0	5858.2	5798.2	5698.1	5618.4
42.5°	5970.8	5978.1	6074.3	6192.2	6241.0	6227.1	6297.6	6279.2	6237.0	6159.9	6096.7
45°	5671.1	5693.5	5798.9	6021.6	6279.8	6410.9	6631.6	6633.6	6625.7	6584.2	6535.4
47.5°	5259.3	5290.9	5430.0	5731.0	6188.9	6589.5	6970.9	6988.7	7005.2	6978.2	6955.8
50°	4712.5	4750.1	4958.2	5357.5	6003.8	6774.6	7611.9	7692.3	7767.4	7758.2	7773.4
52.5°	4126.8	4171.0	4425.9	4870.6	5685.6	6817.4	8021.7	8152.8	8283.9	8391.3	8505.3
55°	3598.4	3574.7	3829.7	4298.1	5162.5	6624.4	8390.0	8548.1	8694.4	8826.1	8961.9
57.5°	2882.3	2921.2	3176.8	3640.0	4470.1	6079.5	8643.7	8874.9	9085.1	9303.1	9495.5
60°	2106.9	2145.8	2423.1	2893.5	3718.4	5253.4	8450.0	8800.4	9137.1	9471.1	9732.0
62.5°	1272.2	1301.2	1545.6	1993.6	2867.2	4273.7	7586.9	8046.8	8542.2	8941.4	9341.3
65°	791.9	808.4	898.6	1145.0	1841.4	3190.6	6198.8	6700.1	7233.8	7740.4	8156.1
67.5°	648.3	654.2	670.7	723.4	1011.3	2080.5	4613.7	5057.7	5539.3	6029.5	6492.0
70°	583.1	579.1	579.1	582.4	648.3	1118.7	3020.7	3309.9	3711.1	4137.4	4560.3
72.5°	526.4	522.4	515.2	505.3	529.0	682.5	1561.4	1779.5	2068.7	2447.5	2852.7
75°	473.0	467.8	459.2	446.7	463.1	515.2	749.7	841.3	982.3	1183.9	1409.9
77.5°	417.7	411.1	403.2	394.0	415.1	400.6	439.4	472.4	526.4	591.0	675.9
80°	355.1	349.2	346.5	341.9	367.0	305.0	310.3	330.7	362.3	397.3	436.8
82.5°	278.0	278.0	288.6	290.5	318.2	219.4	231.9	249.7	266.2	284.6	303.1
85°	183.2	184.5	220.0	233.9	251.0	147.6	173.9	179.9	193.0	203.6	211.5
87.5°	57.3	61.9	134.4	148.9	144.3	83.7	106.7	109.4	118.6	125.8	132.4
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°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2
2.5°	1255.0	1247.1	1239.9	1239.2	1234.0	1226.7	1229.3	1218.1	1218.8	1212.9	1206.3
5°	1475.7	1470.5	1444.1	1436.9	1417.1	1404.6	1402.6	1376.3	1373.0	1357.8	1341.3
7.5°	1793.3	1776.2	1739.3	1721.5	1687.9	1662.8	1651.0	1616.1	1598.9	1559.4	1541.6
10°	2126.0	2104.3	2058.8	2033.8	2001.5	1961.3	1939.6	1888.8	1869.1	1832.8	1789.3
12.5°	2434.3	2412.6	2365.8	2346.7	2303.9	2261.1	2237.3	2180.0	2154.3	2096.3	2062.1
15°	2719.6	2697.8	2657.0	2637.2	2594.4	2559.5	2527.9	2471.2	2440.9	2386.9	2342.1
17.5°	2996.3	2973.2	2937.7	2919.9	2878.4	2842.8	2808.5	2755.2	2724.2	2670.2	2630.0
20°	3253.2	3236.1	3210.4	3186.7	3145.2	3112.9	3072.1	3025.9	2981.1	2941.6	2903.4
22.5°	3477.2	3470.6	3443.0	3432.4	3396.8	3369.2	3333.6	3288.1	3255.9	3205.8	3170.2
25°	3670.3	3668.3	3655.1	3651.8	3626.8	3600.4	3592.5	3555.0	3525.3	3481.2	3444.3
27.5°	3836.3	3838.3	3835.0	3844.2	3837.6	3825.7	3826.4	3813.9	3796.7	3759.9	3727.6
30°	4020.7	4010.2	4016.1	4029.3	4033.3	4034.6	4056.3	4063.6	4062.3	4037.9	4022.1
32.5°	4281.6	4256.6	4233.5	4231.6	4244.7	4250.0	4286.9	4306.0	4322.5	4328.4	4331.0
35°	4614.3	4564.3	4516.2	4490.5	4468.1	4474.0	4500.4	4531.3	4567.6	4592.6	4622.2
37.5°	5033.3	4972.1	4887.1	4826.5	4811.3	4778.4	4795.5	4819.9	4855.5	4894.3	4945.7
40°	5541.3	5448.4	5352.9	5272.5	5229.0	5168.4	5167.7	5163.1	5184.9	5221.1	5293.6
42.5°	6030.1	5947.8	5846.3	5762.0	5705.3	5624.3	5607.8	5565.0	5574.9	5606.5	5677.0
45°	6488.0	6420.2	6358.2	6260.7	6212.6	6125.0	6097.3	6046.6	6018.3	6032.8	6103.3
47.5°	6931.4	6887.9	6823.3	6760.1	6723.2	6644.8	6609.2	6573.0	6536.8	6535.4	6609.2
50°	7795.8	7772.7	7696.3	7630.4	7648.2	7552.0	7557.9	7460.4	7504.6	7509.8	7664.7
52.5°	8608.1	8688.4	8745.1	8814.3	8859.1	8867.6	8897.3	8941.4	8994.8	9100.2	9243.8
55°	9073.2	9174.0	9232.6	9285.3	9372.3	9390.7	9440.2	9498.8	9545.6	9664.2	9786.0
57.5°	9625.9	9813.0	9904.0	9987.6	10104.9	10149.7	10232.1	10296.0	10356.6	10496.9	10644.5
60°	9966.6	10194.5	10379.6	10512.0	10659.0	10764.4	10888.9	10989.0	11131.3	11299.3	11519.4
62.5°	9695.8	10030.5	10276.2	10503.5	10703.1	10904.7	11083.2	11270.3	11486.4	11740.7	12082.0
65°	8617.3	8957.9	9378.9	9614.7	9878.9	10189.9	10461.3	10764.4	11058.9	11429.1	11933.8
67.5°	6937.3	7333.3	7806.3	8044.1	8347.8	8695.0	8999.4	9369.7	9713.6	10162.2	10786.1
70°	5000.4	5512.3	5910.2	6158.6	6513.0	6870.8	7164.6	7595.5	7880.1	8339.9	8984.9
72.5°	3166.3	3570.1	4057.6	4370.6	4685.5	5047.8	5348.3	5719.8	5985.3	6404.3	6988.7
75°	1702.4	2000.2	2428.4	2725.5	3062.8	3372.5	3724.3	3973.3	4169.6	4501.0	4975.4
77.5°	797.8	979.0	1195.7	1424.4	1653.0	1891.5	2123.4	2325.0	2409.3	2599.0	2879.0
80°	484.2	542.9	606.1	676.6	772.1	849.2	951.3	1025.1	1030.4	1090.3	1176.0
82.5°	323.5	345.2	364.3	382.1	406.5	425.6	447.3	473.0	483.6	497.4	525.1
85°	220.7	231.2	235.2	246.4	243.8	250.3	258.9	267.5	272.1	271.4	283.9
87.5°	135.7	141.0	143.6	146.3	144.3	141.6	145.6	150.2	151.5	147.6	148.9
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2
2.5°	1207.6	1201.7	1195.7	1191.8	1190.5	1155.6	1140.4	1130.5	1109.4	1092.3	1078.5
5°	1332.1	1319.6	1309.7	1297.9	1291.3	1203.0	1170.7	1148.3	1111.4	1089.7	1069.9
7.5°	1532.4	1497.5	1477.1	1454.0	1434.2	1274.8	1221.4	1186.5	1135.1	1106.2	1083.8
10°	1759.7	1723.5	1691.2	1655.6	1624.6	1370.3	1292.6	1238.6	1170.7	1133.2	1103.5
12.5°	2013.3	1977.8	1936.9	1891.5	1851.9	1491.6	1383.5	1306.4	1213.5	1163.5	1122.0
15°	2313.1	2250.5	2201.1	2148.4	2102.3	1636.5	1489.6	1382.9	1259.0	1191.1	1135.8
17.5°	2591.8	2525.9	2458.7	2412.6	2359.2	1799.2	1596.3	1460.6	1296.5	1208.9	1138.4
20°	2863.9	2792.1	2734.1	2672.2	2616.2	1967.9	1710.3	1529.1	1320.9	1209.6	1122.0
22.5°	3103.7	3058.9	2994.3	2927.1	2870.5	2136.5	1817.0	1587.1	1330.1	1194.4	1093.0
25°	3376.4	3329.0	3249.9	3193.3	3130.0	2308.5	1921.8	1631.9	1324.9	1166.1	1048.2
27.5°	3667.6	3614.9	3533.9	3474.6	3398.2	2487.0	2017.9	1664.2	1305.1	1120.0	988.2
30°	3971.3	3923.2	3843.5	3783.6	3706.5	2676.1	2125.3	1685.9	1265.6	1056.1	918.4
32.5°	4297.4	4257.3	4178.2	4115.6	4033.3	2881.0	2225.5	1692.5	1205.6	980.3	844.6
35°	4607.1	4579.4	4512.9	4454.2	4368.6	3074.7	2331.5	1689.2	1134.5	897.3	777.4
37.5°	4955.6	4939.1	4906.2	4831.7	4727.0	3337.6	2458.7	1675.4	1047.5	815.0	726.0
40°	5327.2	5328.5	5292.9	5242.2	5144.7	3656.4	2610.2	1648.4	952.6	742.5	679.2
42.5°	5720.5	5740.9	5723.8	5687.5	5594.0	3977.9	2791.4	1615.4	860.4	672.0	633.1
45°	6171.1	6196.2	6222.5	6169.1	6078.2	4402.2	3029.9	1572.6	760.9	613.4	601.5
47.5°	6690.9	6730.5	6754.2	6754.8	6663.9	4927.9	3417.3	1546.9	672.6	573.8	586.3
50°	7787.8	7800.4	7856.4	7953.9	7884.0	6144.8	4093.9	1531.1	612.7	549.5	575.1
52.5°	9368.3	9506.0	9602.9	9596.3	9501.4	6917.6	4466.8	1449.4	577.1	540.2	569.9
55°	10012.0	10184.0	10363.2	10410.6	10336.8	7577.0	4819.2	1367.7	560.0	546.8	571.9
57.5°	10869.8	11159.7	11405.4	11508.8	11402.1	8421.0	5283.0	1324.9	554.7	564.6	584.4
60°	11871.8	12230.2	12553.1	12738.8	12738.8	9390.7	5764.0	1307.1	547.5	591.0	605.5
62.5°	12515.5	13041.9	13529.4	13801.5	13793.6	10066.0	5977.4	1246.5	531.0	609.4	634.4
65°	12518.1	13144.0	13765.3	14071.0	14086.8	9983.0	5625.0	1100.9	500.7	612.0	663.4
67.5°	11474.6	12142.0	12866.0	13207.9	13287.0	9189.8	4869.3	905.2	451.3	585.7	674.0
70°	9691.2	10342.7	11081.9	11417.9	11558.2	7834.0	3921.9	697.7	388.0	527.7	652.2
72.5°	7635.0	8274.1	8788.6	9034.3	9143.7	5988.0	2856.0	527.1	318.2	444.7	593.6
75°	5405.6	5885.2	6158.6	6213.3	6230.4	3609.6	1735.3	392.0	262.2	345.9	501.4
77.5°	3051.0	3256.5	3234.1	3258.5	3055.6	1393.4	755.7	280.7	216.1	262.9	388.7
80°	1191.1	1228.0	1153.6	1130.5	1037.0	518.5	333.4	195.7	172.6	199.0	272.1
82.5°	525.1	542.2	526.4	530.3	507.3	267.5	199.6	141.6	131.8	145.6	180.5
85°	289.2	294.5	293.2	301.7	289.2	106.7	94.9	87.0	92.2	98.8	116.0
87.5°	141.0	142.3	137.7	144.9	140.3	54.0	46.8	49.4	54.0	55.3	55.3
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°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2
2.5°	1068.6	1063.3	1064.0	1062.7	1060.0	1060.0
5°	1059.4	1054.1	1054.1	1052.8	1049.5	1050.2
7.5°	1068.6	1060.0	1056.7	1052.1	1047.5	1047.5
10°	1079.1	1064.0	1054.8	1046.9	1040.9	1040.9
12.5°	1087.0	1063.3	1048.2	1037.6	1031.7	1031.7
15°	1089.7	1058.7	1037.6	1025.1	1019.8	1019.2
17.5°	1081.1	1040.9	1015.2	1000.7	994.2	992.2
20°	1054.8	1008.6	977.7	961.2	952.0	948.7
22.5°	1015.2	962.5	926.3	909.2	897.3	895.3
25°	959.9	903.2	867.7	851.2	844.6	842.6
27.5°	895.3	842.6	812.3	801.8	795.8	795.2
30°	834.1	789.3	766.9	759.0	751.7	750.4
32.5°	776.7	748.4	739.8	728.6	711.5	709.5
35°	735.9	733.3	727.3	702.3	681.2	675.3
37.5°	710.9	735.2	704.9	655.5	640.4	639.1
40°	696.4	714.8	662.8	645.6	647.0	645.6
42.5°	663.4	682.5	664.1	656.2	661.5	662.8
45°	630.5	651.6	674.0	668.7	681.2	681.2
47.5°	612.0	643.7	673.3	673.3	691.8	698.3
50°	591.0	637.1	662.8	672.0	686.5	681.2
52.5°	589.6	625.9	647.6	664.1	670.7	664.7
55°	591.6	616.7	632.5	650.9	658.8	659.5
57.5°	594.3	611.4	621.9	630.5	654.2	654.2
60°	600.8	606.8	612.7	617.3	648.3	648.9
62.5°	611.4	602.2	600.8	605.5	645.0	642.3
65°	627.9	595.6	585.7	590.3	641.7	633.8
67.5°	650.3	585.7	566.6	569.9	639.1	621.9
70°	670.7	569.9	542.9	539.6	614.0	583.7
72.5°	672.6	551.4	509.9	500.0	533.6	504.7
75°	639.7	538.9	473.7	444.7	440.7	436.8
77.5°	576.5	531.7	431.5	386.1	378.2	380.8
80°	482.3	504.7	380.8	326.8	369.6	365.0
82.5°	360.4	445.4	323.5	289.2	288.6	255.0
85°	200.3	347.2	263.5	216.8	150.9	146.3
87.5°	56.0	193.0	184.5	122.5	83.7	87.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)