

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: P193151

Luminaire Tested: **GLEON-AF-03-LED-E1-T2R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193151
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-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 18310.7 lumens
Efficiency: N/A
Efficacy: 110.3 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): 166
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



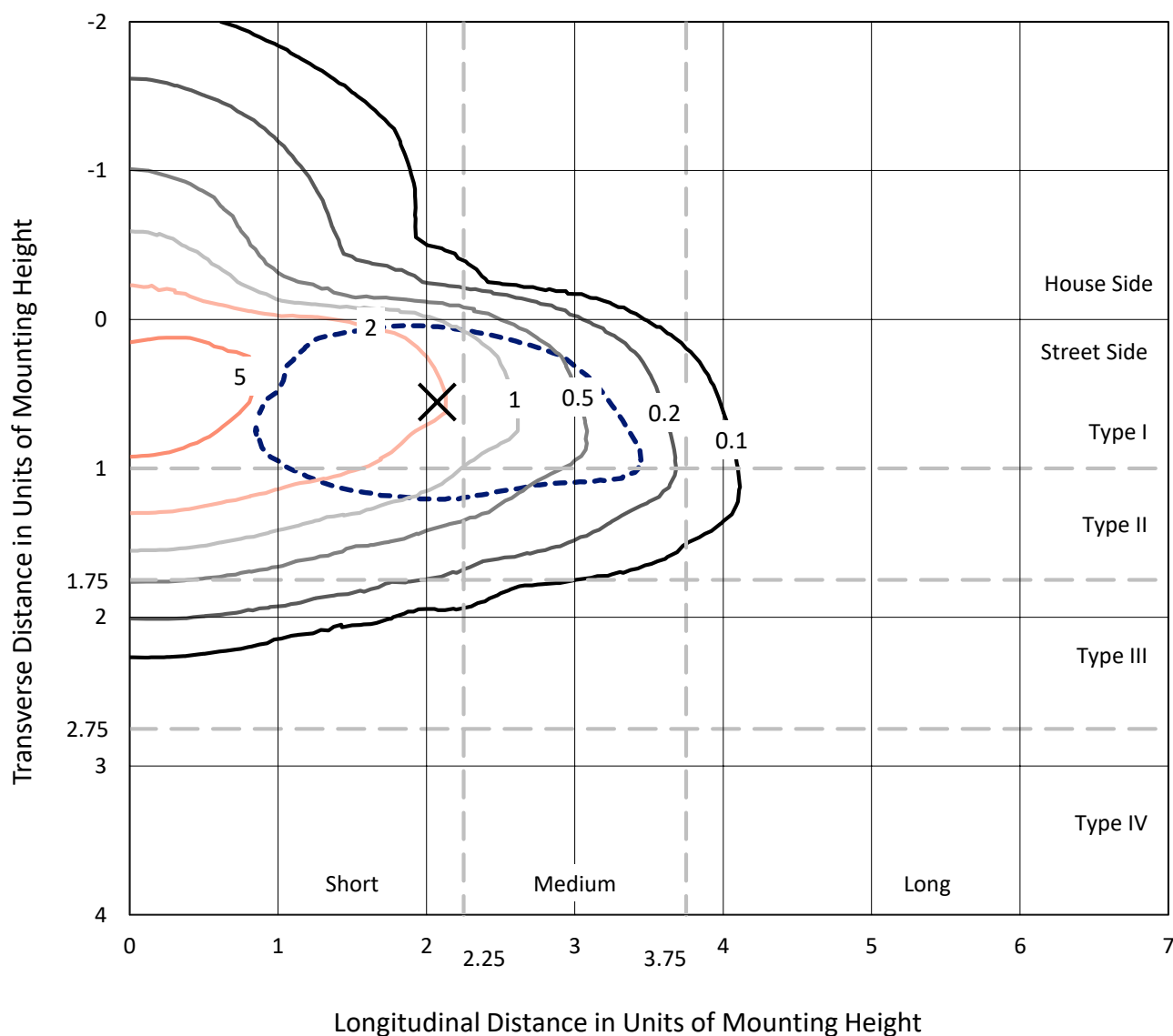
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

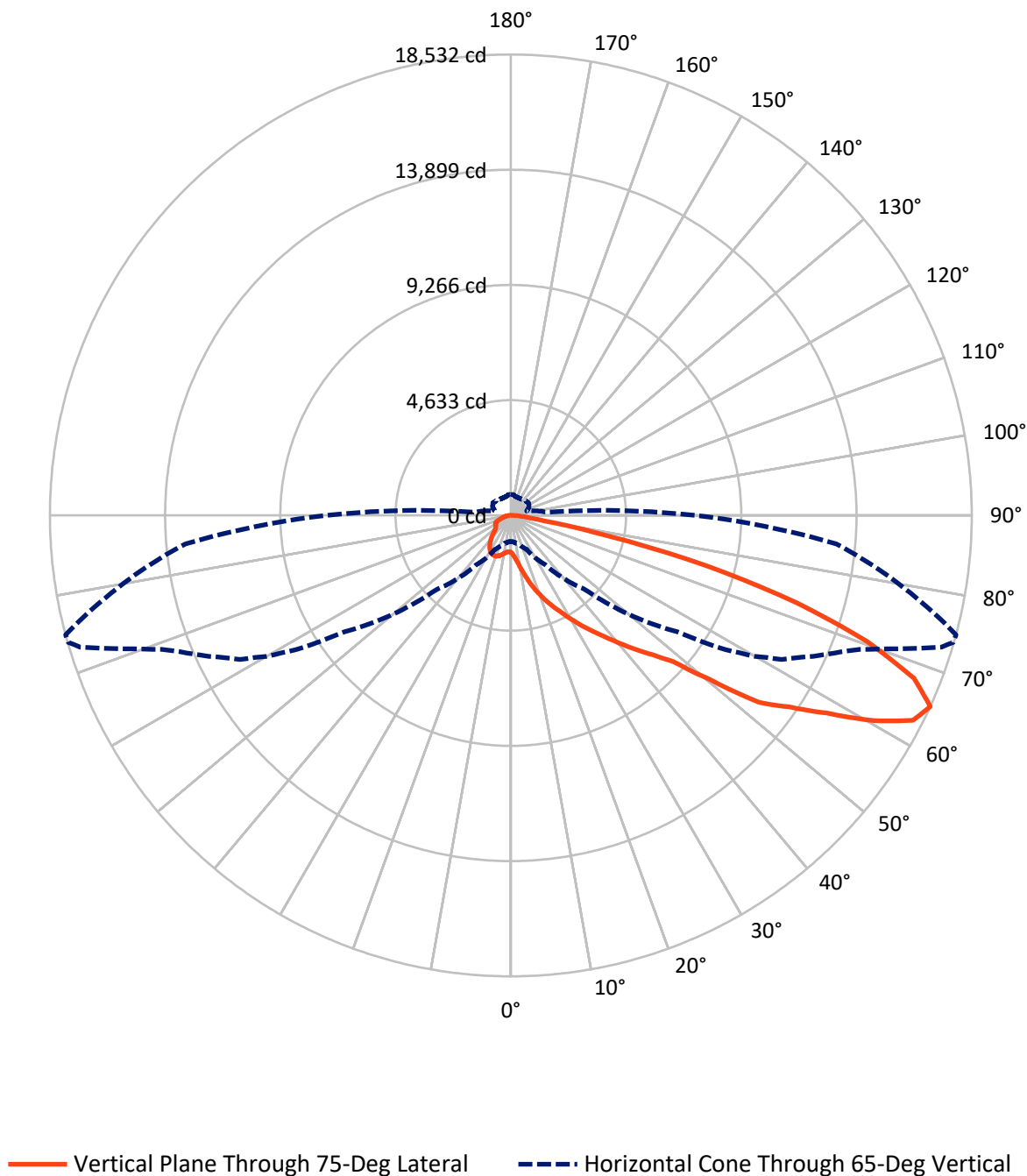


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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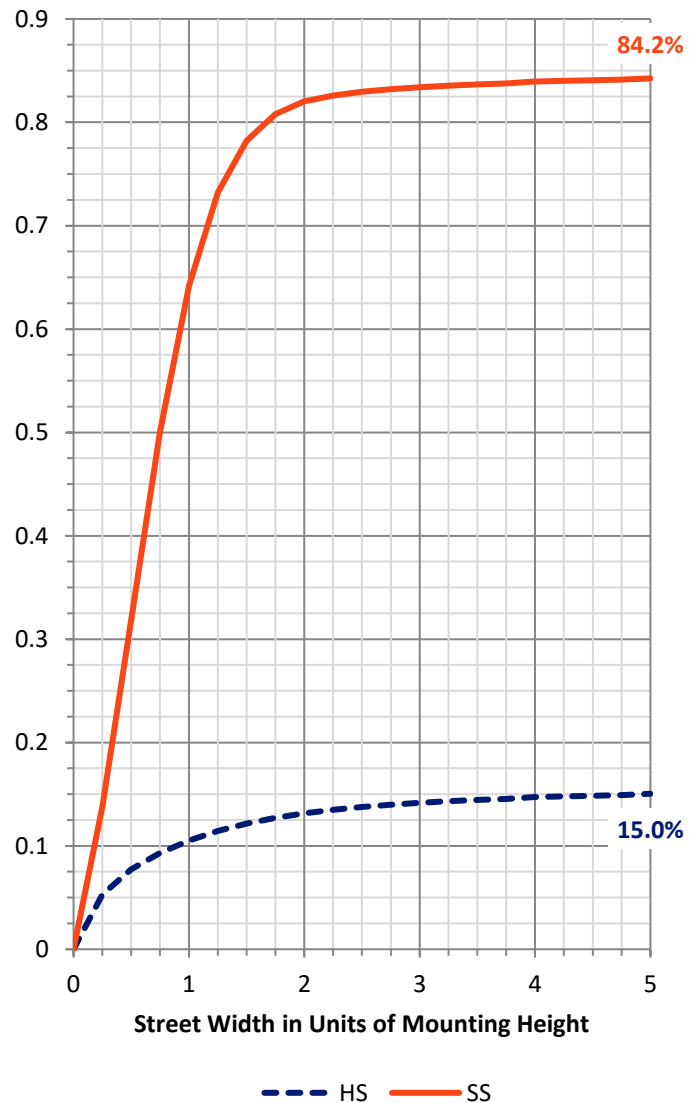
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2823.1	0.0	2823.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	15487.7	0.0	15487.7
	% Fixture	84.6	0.0	84.6
Total	Lumens	18310.7	0.0	18310.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	1.0
10°-20°	718.7	3.9
20°-30°	1474.5	8.1
30°-40°	2480.7	13.5
40°-50°	3427.7	18.7
50°-60°	4278.8	23.4
60°-70°	3850.4	21.0
70°-80°	1614.1	8.8
80°-90°	282.0	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°	18310.7	100.0
0°-180°	18310.7	100.0

Coefficient of Utilization



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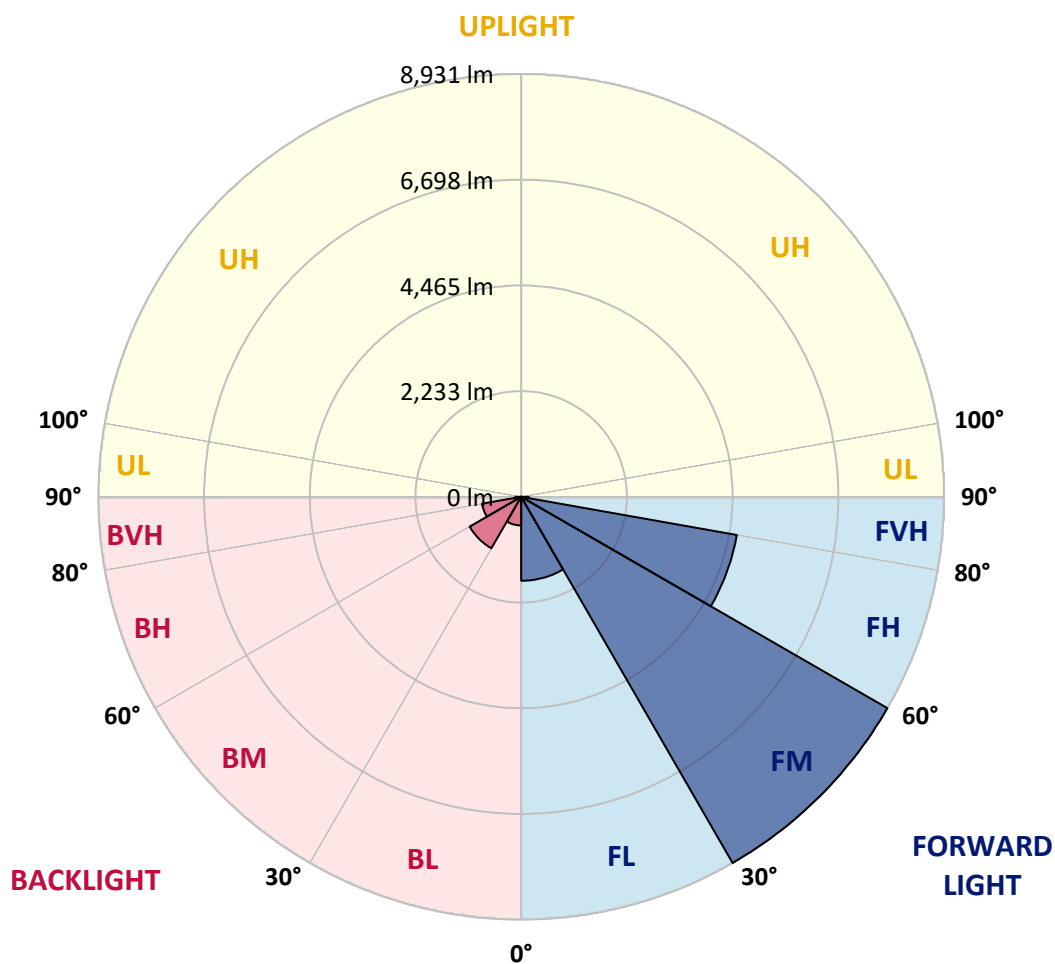
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1773.3	9.7			
FM	(30°-60°)	8930.6	48.8			
FH	(60°-80°)	4625.2	25.3			G2/5000
FVH	(80°-90°)	158.5	0.9			G2/225
BL	(0°-30°)	603.7	3.3	B2/1000		
BM	(30°-60°)	1256.6	6.9	B2/2500		
BH	(60°-80°)	839.3	4.6	B2/1000		G2/1000
BVH	(80°-90°)	123.5	0.7			G2/225
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°	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1
2.5°	1889.4	1868.6	1873.8	1839.2	1796.7	1741.1	1679.7	1678.8	1679.7	1673.6	1651.0
5°	2620.0	2594.9	2585.3	2507.3	2392.9	2230.0	2053.2	2034.1	2026.3	2006.3	1960.4
7.5°	3153.0	3139.1	3124.4	3065.5	2961.5	2779.4	2542.0	2501.3	2462.2	2452.8	2400.8
10°	3497.1	3493.6	3462.4	3446.8	3381.8	3224.0	2992.7	2953.8	2911.2	2896.5	2841.9
12.5°	3769.2	3768.4	3753.6	3758.0	3701.6	3587.2	3387.9	3352.3	3321.2	3276.0	3237.1
15°	3957.3	3958.1	3979.8	4004.2	3995.4	3918.2	3731.1	3715.5	3688.6	3657.5	3611.4
17.5°	4111.5	4115.9	4138.4	4182.7	4230.3	4224.2	4076.0	4063.1	4039.7	3997.1	3972.8
20°	4460.0	4476.5	4433.0	4433.0	4438.3	4461.7	4390.6	4380.2	4347.3	4324.8	4305.7
22.5°	5048.5	5067.6	4969.5	4869.9	4772.0	4700.9	4629.9	4642.9	4620.3	4604.7	4593.5
25°	5812.8	5827.6	5669.0	5500.8	5301.5	5041.6	4865.6	4857.7	4845.6	4836.2	4830.9
27.5°	6532.2	6538.3	6388.4	6142.2	5910.8	5537.3	5104.8	5095.2	5080.5	5062.3	5046.6
30°	7147.5	7145.8	6991.5	6756.7	6508.8	6095.3	5467.9	5438.5	5395.1	5345.7	5307.6
32.5°	7680.6	7677.9	7509.0	7265.4	7005.3	6648.3	5965.4	5904.7	5837.1	5740.9	5682.9
35°	8100.1	8098.3	7938.9	7684.9	7386.8	7169.3	6535.7	6461.1	6375.4	6246.3	6157.0
37.5°	8258.7	8258.7	8169.5	7996.0	7732.6	7583.4	7169.3	7079.1	6987.2	6840.7	6740.2
40°	8165.9	8167.6	8186.7	8154.7	8026.4	7912.0	7760.3	7706.6	7627.7	7495.9	7391.1
42.5°	7854.7	7864.3	7990.9	8146.0	8210.1	8191.9	8284.7	8260.3	8205.0	8103.5	8020.2
45°	7460.4	7489.9	7628.6	7921.6	8261.2	8433.7	8724.1	8726.6	8716.2	8661.6	8597.5
47.5°	6918.8	6960.4	7143.3	7539.3	8141.7	8668.6	9170.3	9193.8	9215.5	9180.0	9150.5
50°	6199.4	6248.7	6522.7	7047.9	7898.2	8912.2	10013.7	10119.4	10218.3	10206.1	10226.0
52.5°	5428.9	5487.0	5822.4	6407.4	7479.5	8968.4	10552.8	10725.2	10897.7	11039.0	11188.9
55°	4733.8	4702.6	5038.1	5654.2	6791.3	8714.5	11037.3	11245.3	11437.7	11611.0	11789.5
57.5°	3791.8	3842.8	4179.1	4788.4	5880.5	7997.8	11370.9	11675.1	11951.6	12238.4	12491.5
60°	2771.7	2822.8	3187.6	3806.5	4891.5	6910.9	11116.1	11577.2	12020.0	12459.5	12802.7
62.5°	1673.6	1711.6	2033.2	2622.5	3771.8	5622.2	9980.8	10585.7	11237.5	11762.7	12288.7
65°	1041.8	1063.4	1182.1	1506.2	2422.4	4197.4	8154.7	8814.2	9516.3	10182.8	10729.6
67.5°	852.8	860.6	882.3	951.6	1330.3	2737.0	6069.4	6653.6	7287.0	7931.9	8540.4
70°	767.0	761.9	761.9	766.1	852.8	1471.6	3973.8	4354.2	4882.0	5442.8	5999.2
72.5°	692.4	687.2	677.7	664.8	696.0	897.9	2054.1	2340.9	2721.4	3219.8	3752.7
75°	622.2	615.3	604.1	587.6	609.2	677.7	986.3	1106.8	1292.2	1557.4	1854.6
77.5°	549.5	540.9	530.5	518.3	546.0	526.9	578.1	621.4	692.4	777.4	889.3
80°	467.2	459.3	455.8	449.8	482.7	401.3	408.2	435.1	476.7	522.6	574.6
82.5°	365.7	365.7	379.5	382.2	418.6	288.6	305.1	328.5	350.1	374.4	398.7
85°	240.9	242.7	289.4	307.7	330.2	194.2	228.8	236.6	253.9	267.8	278.2
87.5°	75.4	81.5	176.8	195.9	189.8	110.1	140.4	143.9	156.0	165.5	174.2
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1
2.5°	1651.0	1640.6	1631.1	1630.2	1623.3	1613.8	1617.2	1602.5	1603.4	1595.6	1586.9
5°	1941.4	1934.4	1899.8	1890.3	1864.3	1847.8	1845.2	1810.5	1806.2	1786.3	1764.5
7.5°	2359.1	2336.6	2288.0	2264.6	2220.4	2187.5	2172.0	2125.9	2103.5	2051.5	2028.1
10°	2796.8	2768.2	2708.4	2675.4	2633.0	2580.1	2551.5	2484.8	2458.8	2411.2	2353.9
12.5°	3202.4	3173.8	3112.2	3087.1	3030.9	2974.5	2943.2	2867.8	2834.0	2757.8	2712.7
15°	3577.7	3549.1	3495.3	3469.3	3413.0	3367.1	3325.6	3250.9	3211.0	3140.0	3081.1
17.5°	3941.6	3911.4	3864.5	3841.1	3786.6	3739.7	3694.7	3624.4	3583.7	3512.6	3459.8
20°	4279.6	4257.2	4223.3	4192.2	4137.5	4095.0	4041.4	3980.7	3921.8	3869.8	3819.4
22.5°	4574.3	4565.7	4529.4	4515.4	4468.6	4432.2	4385.4	4325.6	4283.2	4217.3	4170.5
25°	4828.2	4825.7	4808.4	4804.0	4771.2	4736.4	4726.0	4676.7	4637.6	4579.6	4531.0
27.5°	5046.6	5049.3	5044.9	5057.1	5048.5	5032.8	5033.7	5017.3	4994.7	4946.1	4903.7
30°	5289.3	5275.5	5283.3	5300.6	5305.8	5307.6	5336.2	5345.7	5344.0	5311.9	5291.1
32.5°	5632.7	5599.6	5569.3	5566.8	5584.0	5591.1	5639.5	5664.6	5686.3	5694.1	5697.6
35°	6070.2	6004.5	5941.1	5907.3	5877.8	5885.7	5920.3	5961.0	6008.7	6041.7	6080.8
37.5°	6621.4	6541.0	6429.1	6349.4	6329.4	6286.1	6308.6	6340.7	6387.6	6438.6	6506.2
40°	7289.7	7167.5	7041.9	6936.1	6878.9	6799.2	6798.3	6792.2	6820.8	6868.5	6963.8
42.5°	7932.8	7824.5	7691.0	7580.1	7505.4	7398.9	7377.1	7320.9	7333.9	7375.5	7468.2
45°	8535.2	8445.8	8364.4	8236.1	8172.8	8057.6	8021.2	7954.4	7917.2	7936.3	8029.0
47.5°	9118.4	9061.2	8976.3	8893.0	8844.5	8741.4	8694.7	8646.9	8599.2	8597.5	8694.7
50°	10255.5	10225.1	10124.6	10037.9	10061.3	9934.8	9942.6	9814.3	9872.4	9879.3	10083.0
52.5°	11324.0	11429.8	11504.4	11595.3	11654.3	11665.6	11704.6	11762.7	11832.9	11971.5	12160.4
55°	11936.0	12068.6	12145.7	12215.0	12329.5	12353.7	12418.7	12495.9	12557.3	12713.4	12873.8
57.5°	12663.1	12909.3	13028.8	13139.0	13293.2	13352.1	13460.5	13544.6	13624.3	13809.0	14003.0
60°	13111.2	13411.1	13654.6	13828.8	14022.2	14160.8	14324.6	14456.3	14643.5	14864.5	15154.0
62.5°	12755.0	13195.2	13518.5	13817.6	14080.1	14345.4	14580.2	14826.4	15110.7	15445.2	15894.2
65°	11336.3	11784.3	12338.1	12648.4	12996.0	13405.0	13762.1	14160.8	14548.2	15035.2	15699.1
67.5°	9126.2	9647.0	10269.4	10582.2	10981.7	11438.6	11838.9	12326.0	12778.4	13368.6	14189.4
70°	6578.2	7251.5	7775.0	8101.8	8568.0	9038.7	9425.2	9992.0	10366.4	10971.4	11819.8
72.5°	4165.3	4696.6	5338.0	5749.6	6163.9	6640.6	7035.7	7524.5	7873.9	8425.1	9193.8
75°	2239.5	2631.3	3194.6	3585.5	4029.3	4436.6	4899.4	5227.0	5485.3	5921.2	6545.1
77.5°	1049.6	1287.9	1573.0	1873.8	2174.5	2488.3	2793.3	3058.5	3169.5	3419.0	3787.4
80°	637.0	714.1	797.4	890.1	1015.8	1117.1	1251.4	1348.6	1355.5	1434.3	1547.0
82.5°	425.6	454.2	479.3	502.7	534.8	559.9	588.5	622.2	636.1	654.4	690.7
85°	290.3	304.2	309.4	324.2	320.6	329.3	340.6	352.0	358.0	357.1	373.5
87.5°	178.5	185.5	188.9	192.4	189.8	186.3	191.5	197.6	199.3	194.2	195.9
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°	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1
2.5°	1588.6	1580.9	1573.0	1567.9	1566.1	1520.2	1500.2	1487.2	1459.4	1437.0	1418.7
5°	1752.4	1736.0	1723.0	1707.4	1698.7	1582.6	1540.1	1510.6	1462.1	1433.5	1407.5
7.5°	2016.0	1970.0	1943.0	1912.8	1886.8	1677.0	1606.8	1560.9	1493.2	1455.2	1425.8
10°	2314.8	2267.2	2224.7	2178.0	2137.2	1802.7	1700.4	1629.4	1540.1	1490.8	1451.7
12.5°	2648.6	2601.8	2548.0	2488.3	2436.3	1962.2	1820.0	1718.6	1596.4	1530.6	1476.0
15°	3043.0	2960.6	2895.6	2826.2	2765.6	2152.9	1959.6	1819.1	1656.3	1567.0	1494.1
17.5°	3409.6	3322.9	3234.5	3173.8	3103.6	2366.9	2100.0	1921.5	1705.6	1590.4	1497.6
20°	3767.5	3673.0	3596.7	3515.3	3441.5	2588.8	2249.8	2011.6	1737.7	1591.3	1476.0
22.5°	4082.9	4024.0	3939.2	3850.8	3776.1	2810.7	2390.3	2087.8	1749.8	1571.2	1437.9
25°	4441.7	4379.3	4275.4	4200.8	4117.7	3036.9	2528.2	2146.8	1742.9	1534.0	1378.9
27.5°	4824.9	4755.5	4648.9	4570.9	4470.4	3271.8	2654.7	2189.2	1716.9	1473.4	1300.0
30°	5224.3	5161.1	5056.2	4977.5	4876.0	3520.5	2796.0	2217.9	1664.9	1389.3	1208.2
32.5°	5653.4	5600.5	5496.5	5414.3	5305.8	3789.9	2927.7	2226.4	1586.0	1289.6	1111.0
35°	6060.7	6024.3	5936.8	5859.7	5747.0	4044.8	3067.2	2222.3	1492.5	1180.4	1022.6
37.5°	6519.2	6497.5	6454.2	6356.2	6218.5	4390.6	3234.5	2204.0	1378.0	1072.1	955.0
40°	7008.0	7009.7	6963.0	6896.2	6767.9	4810.1	3433.8	2168.5	1253.2	976.8	893.5
42.5°	7525.4	7552.3	7529.8	7482.1	7359.0	5233.1	3672.1	2125.1	1131.9	884.0	832.9
45°	8118.3	8151.2	8185.8	8115.7	7996.0	5791.2	3985.9	2068.9	1001.1	806.9	791.2
47.5°	8802.0	8854.1	8885.3	8886.2	8766.5	6482.8	4495.5	2035.0	884.9	754.9	771.4
50°	10245.1	10261.5	10335.3	10463.5	10371.7	8083.5	5385.6	2014.2	806.0	722.9	756.6
52.5°	12324.2	12505.4	12632.8	12624.2	12499.4	9100.2	5876.2	1906.7	759.3	710.7	749.7
55°	13170.9	13397.3	13633.0	13695.3	13598.3	9967.7	6339.8	1799.3	736.7	719.4	752.2
57.5°	14299.5	14680.8	15004.0	15140.2	14999.7	11078.1	6950.0	1742.9	729.8	742.8	768.7
60°	15617.6	16089.2	16513.9	16758.1	16758.1	12353.7	7582.6	1719.5	720.2	777.4	796.5
62.5°	16464.4	17156.9	17798.3	18156.1	18145.8	13242.1	7863.4	1639.8	698.5	801.6	834.6
65°	16467.9	17291.3	18108.5	18510.7	18531.5	13132.9	7399.8	1448.2	658.8	805.1	872.8
67.5°	15095.0	15973.0	16925.5	17375.3	17479.3	12089.4	6405.7	1190.8	593.8	770.5	886.6
70°	12748.9	13606.0	14578.6	15020.5	15205.2	10305.8	5159.3	917.8	510.5	694.3	858.0
72.5°	10043.9	10884.7	11561.6	11884.9	12028.7	7877.3	3757.1	693.4	418.6	585.0	780.8
75°	7111.1	7742.1	8101.8	8173.6	8196.2	4748.5	2282.9	515.7	344.9	454.9	659.6
77.5°	4013.6	4284.0	4254.5	4286.7	4019.6	1833.1	994.0	369.2	284.3	345.8	511.4
80°	1567.0	1615.5	1517.6	1487.2	1364.2	682.1	438.5	257.5	227.0	261.7	358.0
82.5°	690.7	713.3	692.4	697.7	667.3	352.0	262.7	186.3	173.2	191.5	237.4
85°	380.4	387.5	385.6	396.9	380.4	140.4	124.8	114.4	121.4	130.0	152.5
87.5°	185.5	187.2	181.2	190.6	184.6	71.0	61.5	65.0	71.0	72.7	72.7
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):

	135°	145°	155°	165°	175°	180°
0°	1488.1	1488.1	1488.1	1488.1	1488.1	1488.1
2.5°	1405.7	1398.8	1399.7	1398.0	1394.4	1394.4
5°	1393.6	1386.7	1386.7	1385.0	1380.6	1381.5
7.5°	1405.7	1394.4	1390.3	1384.1	1378.0	1378.0
10°	1419.6	1399.7	1387.6	1377.2	1369.3	1369.3
12.5°	1429.9	1398.8	1378.9	1364.9	1357.2	1357.2
15°	1433.5	1392.7	1364.9	1348.6	1341.6	1340.7
17.5°	1422.2	1369.3	1335.5	1316.5	1307.9	1305.2
20°	1387.6	1326.9	1286.2	1264.4	1252.3	1248.1
22.5°	1335.5	1266.2	1218.6	1196.1	1180.4	1177.9
25°	1262.7	1188.2	1141.4	1119.8	1111.0	1108.6
27.5°	1177.9	1108.6	1068.7	1054.8	1046.9	1046.0
30°	1097.2	1038.3	1008.8	998.4	988.9	987.1
32.5°	1021.8	984.5	973.3	958.5	936.1	933.4
35°	968.0	964.6	956.8	923.9	896.2	888.4
37.5°	935.1	967.3	927.4	862.4	842.4	840.6
40°	916.1	940.4	871.9	849.4	851.1	849.4
42.5°	872.8	897.9	873.6	863.2	870.1	871.9
45°	829.4	857.1	886.6	879.6	896.2	896.2
47.5°	805.1	846.8	885.8	885.8	910.0	918.7
50°	777.4	838.1	871.9	884.0	903.1	896.2
52.5°	775.6	823.4	852.0	873.6	882.3	874.5
55°	778.3	811.2	832.0	856.3	866.7	867.5
57.5°	781.7	804.2	818.2	829.4	860.6	860.6
60°	790.4	798.2	806.0	812.2	852.8	853.7
62.5°	804.2	792.1	790.4	796.5	848.5	845.0
65°	826.0	783.5	770.5	776.5	844.1	833.7
67.5°	855.4	770.5	745.3	749.7	840.6	818.2
70°	882.3	749.7	714.1	709.8	807.8	767.9
72.5°	884.9	725.4	670.9	657.8	702.0	663.9
75°	841.6	709.0	623.1	585.0	579.8	574.6
77.5°	758.4	699.4	567.7	507.8	497.4	501.0
80°	634.5	663.9	501.0	429.8	486.2	480.2
82.5°	474.0	585.8	425.6	380.4	379.5	335.4
85°	263.5	456.7	346.7	285.1	198.6	192.4
87.5°	73.6	253.9	242.7	161.1	110.1	114.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)