

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: P193141

Luminaire Tested: **GLEON-AF-03-LED-E1-T2R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193141
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-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 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: 14793.7 lumens
Efficiency: N/A
Efficacy: 119.3 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): 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



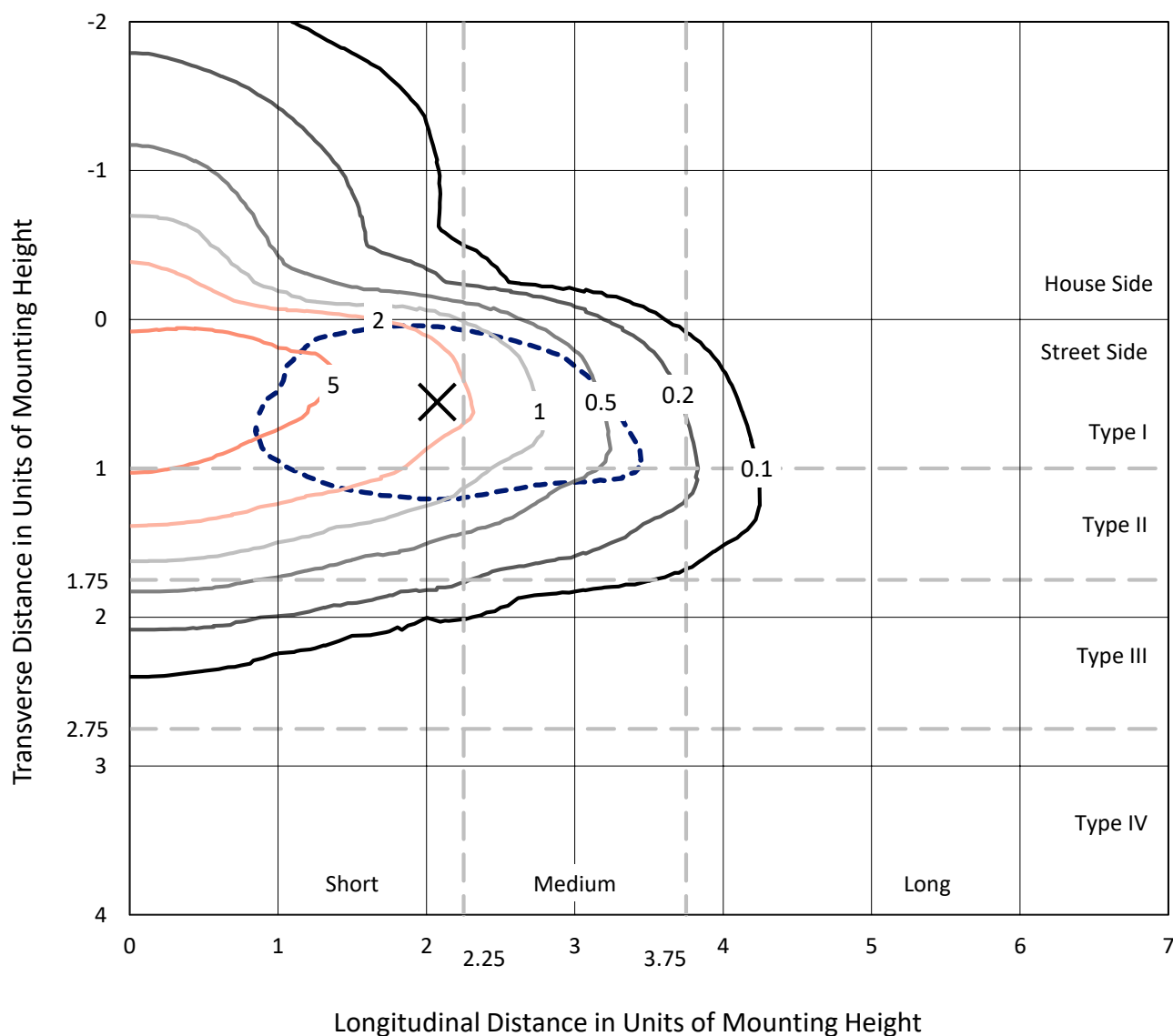
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

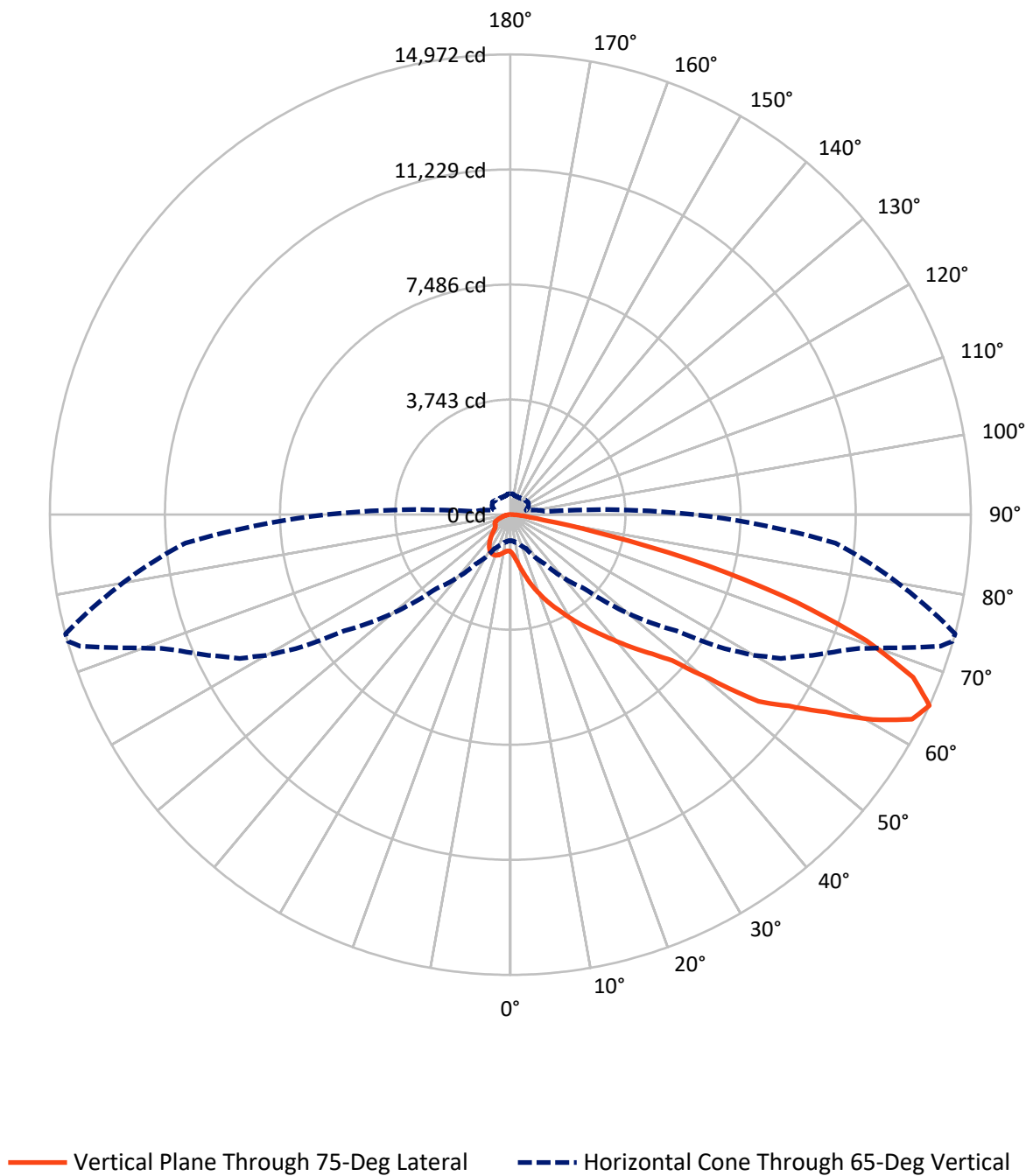


Based on 20 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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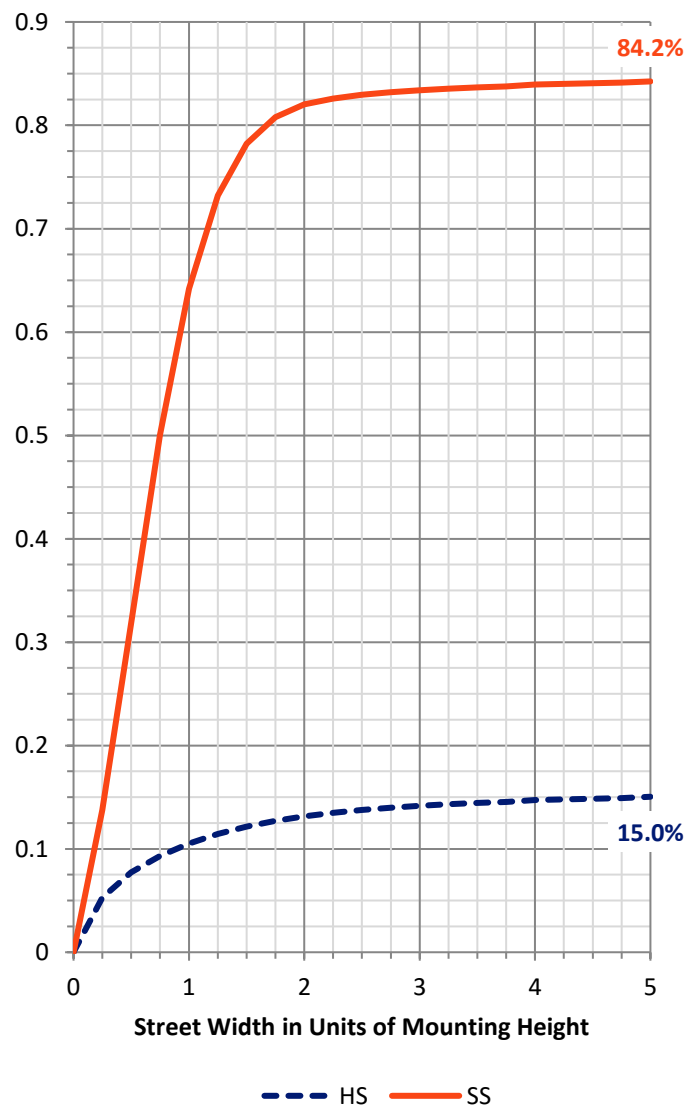
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2280.8	0.0	2280.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	12512.9	0.0	12512.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	14793.7	0.0	14793.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	1.0
10°-20°	580.6	3.9
20°-30°	1191.3	8.1
30°-40°	2004.2	13.5
40°-50°	2769.3	18.7
50°-60°	3456.9	23.4
60°-70°	3110.9	21.0
70°-80°	1304.0	8.8
80°-90°	227.8	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°	14793.7	100.0
0°-180°	14793.7	100.0

Coefficient of Utilization



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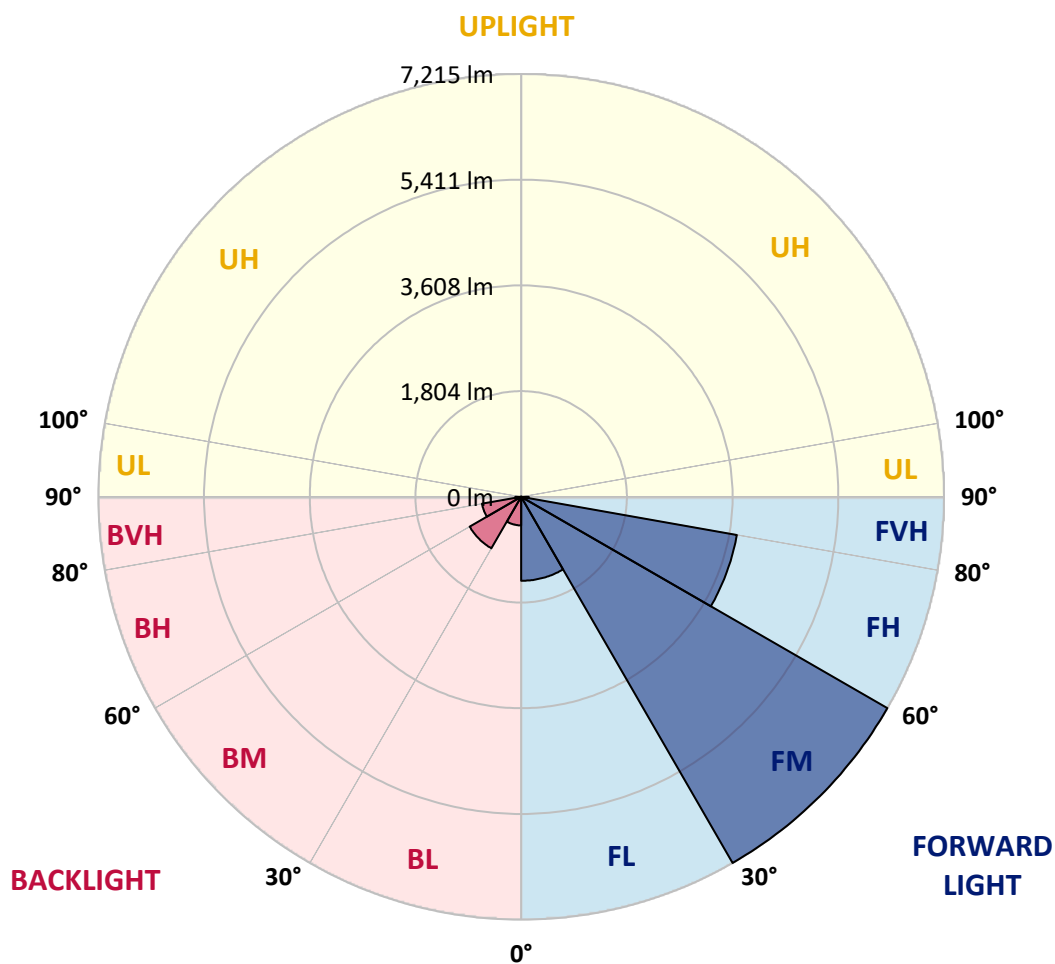
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1432.7	9.7			
FM	(30°-60°)	7215.2	48.8			
FH	(60°-80°)	3736.8	25.3			G2/5000
FVH	(80°-90°)	128.0	0.9			G2/225
BL	(0°-30°)	487.8	3.3	B1/500		
BM	(30°-60°)	1015.2	6.9	B2/2500		
BH	(60°-80°)	678.1	4.6	B2/1000		G2/1000
BVH	(80°-90°)	99.8	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°	1202.3	1202.3	1202.3	1202.3	1202.3	1202.3	1202.3	1202.3	1202.3	1202.3	1202.3
2.5°	1526.5	1509.6	1513.9	1485.8	1451.5	1406.7	1357.0	1356.4	1357.0	1352.1	1333.9
5°	2116.8	2096.4	2088.7	2025.7	1933.4	1801.6	1658.8	1643.4	1637.1	1621.0	1583.9
7.5°	2547.4	2536.2	2524.3	2476.7	2392.7	2245.6	2053.7	2020.9	1989.3	1981.6	1939.6
10°	2825.3	2822.6	2797.4	2784.8	2732.2	2604.8	2417.8	2386.3	2352.1	2340.2	2296.0
12.5°	3045.3	3044.5	3032.6	3036.1	2990.7	2898.2	2737.2	2708.4	2683.2	2646.8	2615.3
15°	3197.2	3197.9	3215.4	3234.9	3227.9	3165.7	3014.5	3001.8	2980.1	2954.9	2917.8
17.5°	3321.8	3325.3	3343.6	3379.3	3417.7	3412.8	3293.1	3282.5	3263.7	3229.3	3209.8
20°	3603.3	3616.6	3581.6	3581.6	3585.8	3604.7	3547.3	3538.9	3512.2	3494.1	3478.7
22.5°	4078.7	4094.2	4015.1	3934.5	3855.4	3798.0	3740.6	3751.1	3732.9	3720.3	3711.1
25°	4696.4	4708.2	4580.1	4444.2	4283.2	4073.1	3931.0	3924.7	3914.9	3907.2	3903.0
27.5°	5277.6	5282.4	5161.3	4962.4	4775.5	4473.7	4124.3	4116.6	4104.7	4090.0	4077.3
30°	5774.7	5773.3	5648.6	5458.9	5258.6	4924.7	4417.7	4393.9	4358.9	4318.9	4288.1
32.5°	6205.3	6203.2	6066.6	5870.0	5659.8	5371.4	4819.5	4770.6	4715.9	4638.3	4591.3
35°	6544.2	6542.8	6413.9	6208.7	5968.0	5792.2	5280.3	5220.1	5150.8	5046.4	4974.3
37.5°	6672.4	6672.4	6600.3	6460.2	6247.3	6126.9	5792.2	5719.4	5645.1	5526.8	5445.6
40°	6597.4	6598.8	6614.2	6588.4	6484.7	6392.3	6269.8	6226.3	6162.6	6056.1	5971.4
42.5°	6346.1	6353.8	6456.0	6581.3	6633.1	6618.5	6693.3	6673.8	6629.0	6547.1	6479.8
45°	6027.5	6051.3	6163.4	6400.0	6674.4	6813.9	7048.5	7050.5	7042.1	6997.9	6946.1
47.5°	5589.8	5623.5	5771.2	6091.2	6577.9	7003.5	7409.0	7427.9	7445.4	7416.7	7392.9
50°	5008.7	5048.6	5269.8	5694.1	6381.1	7200.3	8090.3	8175.8	8255.5	8245.8	8261.8
52.5°	4386.1	4433.0	4704.0	5176.7	6042.9	7245.8	8525.8	8665.2	8804.5	8918.7	9039.8
55°	3824.6	3799.4	4070.4	4568.2	5486.9	7040.6	8917.3	9085.4	9240.7	9380.8	9525.0
57.5°	3063.4	3104.7	3376.4	3868.7	4750.9	6461.6	9186.8	9432.6	9656.0	9887.8	10092.2
60°	2239.3	2280.6	2575.3	3075.3	3952.0	5583.4	8981.0	9353.4	9711.3	10066.3	10343.6
62.5°	1352.1	1382.9	1642.7	2118.9	3047.3	4542.4	8063.7	8552.5	9079.0	9503.4	9928.4
65°	841.7	859.3	955.2	1216.9	1957.1	3391.2	6588.4	7121.2	7688.3	8226.9	8668.6
67.5°	689.0	695.3	712.8	768.8	1074.8	2211.3	4903.7	5375.5	5887.4	6408.4	6899.9
70°	619.7	615.4	615.4	619.0	689.0	1189.0	3210.5	3517.9	3944.4	4397.3	4846.8
72.5°	559.5	555.2	547.6	537.1	562.2	725.4	1659.5	1891.3	2198.8	2601.4	3032.0
75°	502.7	497.1	488.1	474.7	492.2	547.6	796.8	894.2	1044.0	1258.3	1498.5
77.5°	443.9	436.9	428.6	418.7	441.2	425.8	467.1	502.0	559.5	628.1	718.4
80°	377.4	371.2	368.3	363.4	390.0	324.2	329.9	351.5	385.1	422.2	464.3
82.5°	295.4	295.4	306.7	308.7	338.1	233.2	246.5	265.4	282.9	302.5	322.1
85°	194.7	196.0	234.0	248.6	266.8	156.9	184.8	191.2	205.2	216.4	224.7
87.5°	60.9	65.8	142.8	158.2	153.4	88.9	113.4	116.3	126.0	133.8	140.7
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°	1202.3	1202.3	1202.3	1202.3	1202.3	1202.3	1202.3	1202.3	1202.3	1202.3	1202.3
2.5°	1333.9	1325.6	1317.7	1317.1	1311.5	1303.8	1306.6	1294.7	1295.4	1289.1	1282.0
5°	1568.5	1562.9	1534.9	1527.2	1506.1	1492.8	1490.8	1462.8	1459.2	1443.1	1425.7
7.5°	1906.0	1887.8	1848.5	1829.6	1793.9	1767.4	1754.7	1717.7	1699.4	1657.5	1638.5
10°	2259.6	2236.5	2188.1	2161.5	2127.3	2084.5	2061.4	2007.5	1986.6	1948.0	1901.7
12.5°	2587.3	2564.2	2514.5	2494.2	2448.6	2403.1	2377.9	2317.1	2289.7	2228.2	2191.6
15°	2890.5	2867.4	2824.1	2802.9	2757.4	2720.3	2686.6	2626.5	2594.3	2536.9	2489.3
17.5°	3184.6	3160.1	3122.3	3103.4	3059.3	3021.4	2985.1	2928.2	2895.4	2838.0	2795.3
20°	3457.6	3439.5	3412.1	3386.9	3342.8	3308.5	3265.1	3216.0	3168.5	3126.5	3085.8
22.5°	3695.7	3688.7	3659.3	3648.1	3610.4	3580.9	3543.1	3494.7	3460.5	3407.2	3369.4
25°	3900.9	3898.8	3884.8	3881.3	3854.6	3826.7	3818.3	3778.4	3746.8	3699.9	3660.7
27.5°	4077.3	4079.4	4075.9	4085.7	4078.7	4066.2	4066.8	4053.5	4035.4	3996.1	3961.8
30°	4273.4	4262.2	4268.5	4282.5	4286.7	4288.1	4311.3	4318.9	4317.5	4291.6	4274.8
32.5°	4550.7	4524.1	4499.7	4497.4	4511.6	4517.1	4556.3	4576.7	4594.2	4600.5	4603.2
35°	4904.3	4851.1	4800.0	4772.7	4748.9	4755.2	4783.2	4816.0	4854.6	4881.1	4912.8
37.5°	5349.7	5284.6	5194.1	5129.8	5113.7	5078.7	5096.8	5122.7	5160.7	5202.0	5256.6
40°	5889.5	5790.7	5689.2	5603.8	5557.6	5493.2	5492.5	5487.5	5510.7	5549.2	5626.2
42.5°	6409.0	6321.5	6213.7	6124.1	6063.9	5977.8	5960.2	5914.8	5925.2	5958.9	6033.8
45°	6895.7	6823.6	6757.8	6654.1	6603.1	6509.8	6480.5	6426.6	6396.5	6411.9	6486.8
47.5°	7367.1	7320.8	7252.2	7184.9	7145.7	7062.4	7024.6	6986.0	6947.6	6946.1	7024.6
50°	8285.6	8261.2	8179.9	8109.9	8128.8	8026.6	8032.8	7929.3	7976.2	7981.7	8146.4
52.5°	9149.1	9234.5	9294.6	9368.2	9415.9	9424.9	9456.4	9503.4	9560.0	9672.0	9824.7
55°	9643.3	9750.6	9812.8	9868.9	9961.2	9980.9	10033.4	10095.7	10145.5	10271.5	10401.1
57.5°	10230.8	10429.7	10526.4	10615.3	10739.9	10787.5	10875.0	10943.0	11007.5	11156.6	11313.4
60°	10592.9	10835.1	11031.9	11172.7	11328.8	11440.9	11573.2	11679.6	11830.8	12009.4	12243.3
62.5°	10305.2	10660.8	10922.0	11163.6	11375.7	11590.0	11779.8	11978.6	12208.3	12478.6	12841.2
65°	9158.8	9520.9	9968.3	10218.9	10499.7	10830.3	11118.8	11440.9	11753.8	12147.3	12683.7
67.5°	7373.3	7794.1	8296.8	8549.6	8872.4	9241.4	9565.0	9958.4	10324.0	10800.9	11463.9
70°	5314.6	5858.7	6281.7	6545.6	6922.3	7302.6	7614.9	8072.8	8375.3	8863.9	9549.6
72.5°	3365.1	3794.5	4312.7	4645.2	4979.9	5365.0	5684.3	6079.3	6361.5	6806.9	7427.9
75°	1809.4	2125.8	2581.0	2896.8	3255.3	3584.4	3958.4	4223.0	4431.7	4783.9	5288.0
77.5°	848.0	1040.4	1270.9	1513.9	1756.9	2010.4	2256.8	2471.1	2560.7	2762.4	3060.0
80°	514.6	577.0	644.2	719.2	820.6	902.6	1011.0	1089.6	1095.1	1158.8	1249.9
82.5°	343.8	366.9	387.3	406.1	432.0	452.4	475.5	502.7	513.9	528.7	558.1
85°	234.6	245.8	249.9	261.9	259.1	266.0	275.3	284.3	289.2	288.5	301.8
87.5°	144.2	149.8	152.6	155.4	153.4	150.6	154.7	159.6	161.0	156.9	158.2
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°	1202.3	1202.3	1202.3	1202.3	1202.3	1202.3	1202.3	1202.3	1202.3	1202.3	1202.3
2.5°	1283.5	1277.2	1270.9	1266.7	1265.3	1228.2	1212.1	1201.6	1179.1	1161.0	1146.2
5°	1415.9	1402.6	1392.1	1379.4	1372.4	1278.6	1244.3	1220.4	1181.3	1158.1	1137.2
7.5°	1628.7	1591.6	1569.8	1545.4	1524.3	1355.0	1298.2	1261.1	1206.4	1175.6	1151.8
10°	1870.3	1831.7	1797.5	1759.6	1726.8	1456.4	1373.8	1316.3	1244.3	1204.4	1172.9
12.5°	2139.9	2102.0	2058.7	2010.4	1968.3	1585.3	1470.4	1388.5	1289.8	1236.6	1192.4
15°	2458.5	2391.9	2339.5	2283.4	2234.4	1739.3	1583.1	1469.7	1338.1	1266.0	1207.2
17.5°	2754.7	2684.6	2613.2	2564.2	2507.5	1912.2	1696.6	1552.3	1378.0	1284.9	1209.9
20°	3043.9	2967.5	2905.9	2840.0	2780.5	2091.5	1817.7	1625.2	1404.0	1285.6	1192.4
22.5°	3298.7	3251.1	3182.5	3111.0	3050.8	2270.9	1931.1	1686.9	1413.7	1269.5	1161.7
25°	3588.6	3538.2	3454.1	3393.9	3326.7	2453.5	2042.5	1734.4	1408.2	1239.4	1114.0
27.5°	3898.2	3842.1	3756.0	3693.0	3611.7	2643.3	2144.8	1768.8	1387.1	1190.4	1050.3
30°	4220.9	4169.8	4085.1	4021.4	3939.5	2844.2	2258.9	1791.9	1345.1	1122.4	976.1
32.5°	4567.5	4524.8	4440.8	4374.3	4286.7	3062.1	2365.4	1798.9	1281.4	1041.9	897.7
35°	4896.6	4867.2	4796.5	4734.2	4643.1	3268.0	2478.1	1795.3	1205.7	953.8	826.2
37.5°	5267.1	5249.5	5214.5	5135.4	5024.1	3547.3	2613.2	1780.6	1113.4	866.2	771.6
40°	5662.0	5663.4	5625.5	5571.5	5468.0	3886.3	2774.3	1752.0	1012.5	789.2	721.8
42.5°	6079.9	6101.7	6083.4	6045.0	5945.6	4227.9	2966.8	1716.9	914.5	714.2	672.9
45°	6559.0	6585.5	6613.6	6556.8	6460.2	4678.8	3220.3	1671.4	808.7	651.9	639.2
47.5°	7111.3	7153.4	7178.7	7179.3	7082.7	5237.7	3632.0	1644.2	714.9	609.8	623.3
50°	8277.3	8290.6	8350.0	8453.7	8379.5	6530.9	4351.1	1627.3	651.1	584.0	611.3
52.5°	9957.2	10103.4	10206.4	10199.4	10098.5	7352.3	4747.5	1540.4	613.4	574.1	605.8
55°	10641.2	10824.0	11014.4	11064.8	10986.3	8053.2	5122.1	1453.7	595.1	581.1	607.8
57.5°	11552.8	11860.9	12122.1	12232.1	12118.6	8950.2	5615.1	1408.2	589.6	600.1	621.1
60°	12618.0	12998.8	13341.9	13539.4	13539.4	9980.9	6126.1	1389.2	582.0	628.1	643.5
62.5°	13302.0	13861.5	14379.6	14668.8	14660.4	10698.5	6353.1	1324.8	564.4	647.7	674.3
65°	13304.8	13970.0	14630.4	14955.2	14972.1	10610.3	5978.4	1170.0	532.2	650.5	705.2
67.5°	12195.6	12904.9	13674.6	14037.9	14122.0	9767.3	5175.3	962.1	479.6	622.4	716.3
70°	10300.2	10992.7	11778.3	12135.4	12284.6	8326.3	4168.3	741.6	412.5	560.8	693.2
72.5°	8114.8	8794.1	9340.9	9602.0	9718.3	6364.3	3035.4	560.2	338.1	472.6	630.9
75°	5745.3	6255.0	6545.6	6603.7	6621.9	3836.5	1844.4	416.6	278.7	367.6	532.8
77.5°	3242.7	3461.2	3437.4	3463.3	3247.6	1481.0	803.2	298.3	229.7	279.3	413.1
80°	1266.0	1305.2	1226.1	1201.6	1102.1	551.1	354.3	207.9	183.4	211.4	289.2
82.5°	558.1	576.3	559.5	563.7	539.2	284.3	212.2	150.6	140.1	154.7	191.9
85°	307.3	313.0	311.6	320.6	307.3	113.4	100.8	92.5	98.0	105.0	123.3
87.5°	149.8	151.3	146.3	154.0	149.1	57.5	49.7	52.6	57.5	58.8	58.8
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°	1202.3	1202.3	1202.3	1202.3	1202.3	1202.3
2.5°	1135.8	1130.2	1130.9	1129.4	1126.7	1126.7
5°	1125.9	1120.4	1120.4	1119.0	1115.4	1116.2
7.5°	1135.8	1126.7	1123.1	1118.3	1113.4	1113.4
10°	1147.0	1130.9	1121.0	1112.7	1106.4	1106.4
12.5°	1155.3	1130.2	1114.0	1102.9	1096.5	1096.5
15°	1158.1	1125.3	1102.9	1089.6	1084.0	1083.2
17.5°	1149.1	1106.4	1079.1	1063.6	1056.6	1054.6
20°	1121.0	1072.1	1039.2	1021.6	1011.8	1008.4
22.5°	1079.1	1023.0	984.5	966.3	953.8	951.6
25°	1020.3	960.0	922.1	904.6	897.7	895.6
27.5°	951.6	895.6	863.3	852.1	845.8	845.1
30°	886.4	838.9	815.1	806.7	798.9	797.6
32.5°	825.6	795.4	786.3	774.4	756.2	754.1
35°	782.2	779.3	773.0	746.5	724.1	717.8
37.5°	755.5	781.4	749.2	696.7	680.5	679.1
40°	740.1	759.8	704.4	686.2	687.6	686.2
42.5°	705.2	725.4	705.9	697.4	703.0	704.4
45°	670.1	692.4	716.3	710.7	724.1	724.1
47.5°	650.5	684.1	715.6	715.6	735.2	742.2
50°	628.1	677.1	704.4	714.2	729.7	724.1
52.5°	626.7	665.2	688.4	705.9	712.8	706.5
55°	628.8	655.4	672.2	691.8	700.3	700.9
57.5°	631.6	649.8	661.0	670.1	695.3	695.3
60°	638.6	644.8	651.1	656.1	689.0	689.8
62.5°	649.8	640.0	638.6	643.5	685.5	682.8
65°	667.3	633.0	622.4	627.3	682.0	673.6
67.5°	691.1	622.4	602.2	605.8	679.1	661.0
70°	712.8	605.8	577.0	573.5	652.6	620.4
72.5°	714.9	586.0	541.9	531.4	567.2	536.4
75°	679.9	572.7	503.4	472.6	468.4	464.3
77.5°	612.7	565.1	458.7	410.4	402.0	404.7
80°	512.5	536.4	404.7	347.3	392.8	387.9
82.5°	383.1	473.3	343.8	307.3	306.7	271.0
85°	212.8	369.0	280.1	230.3	160.4	155.4
87.5°	59.5	205.2	196.0	130.2	88.9	92.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)