

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: P301574

Luminaire Tested: **GLNA-AF-03-LED-E1-T2R-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194759)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-03-LED-E1-T2R-8030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15394.7 lumens
Efficiency: N/A
Efficacy: 92.7 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



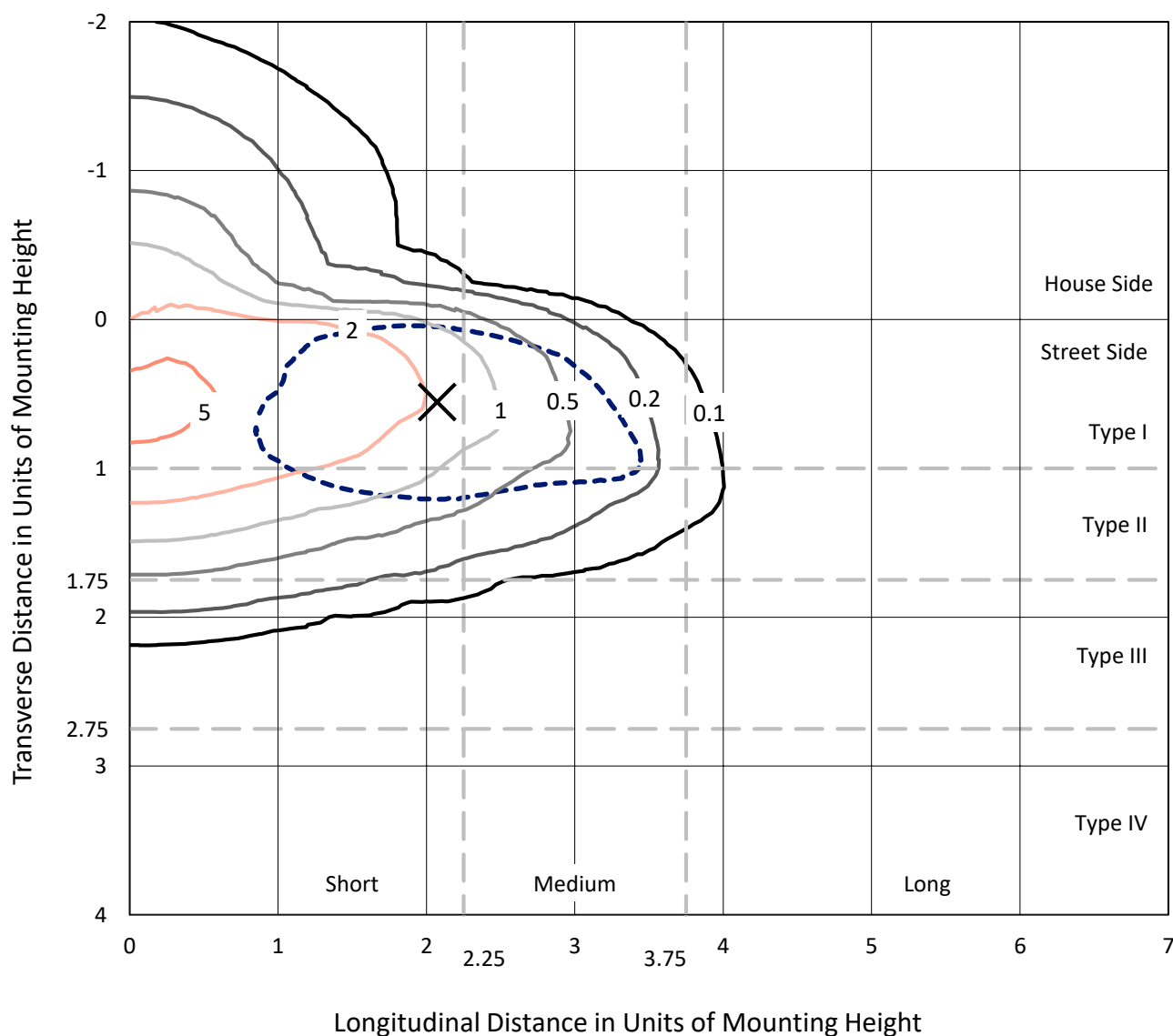
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

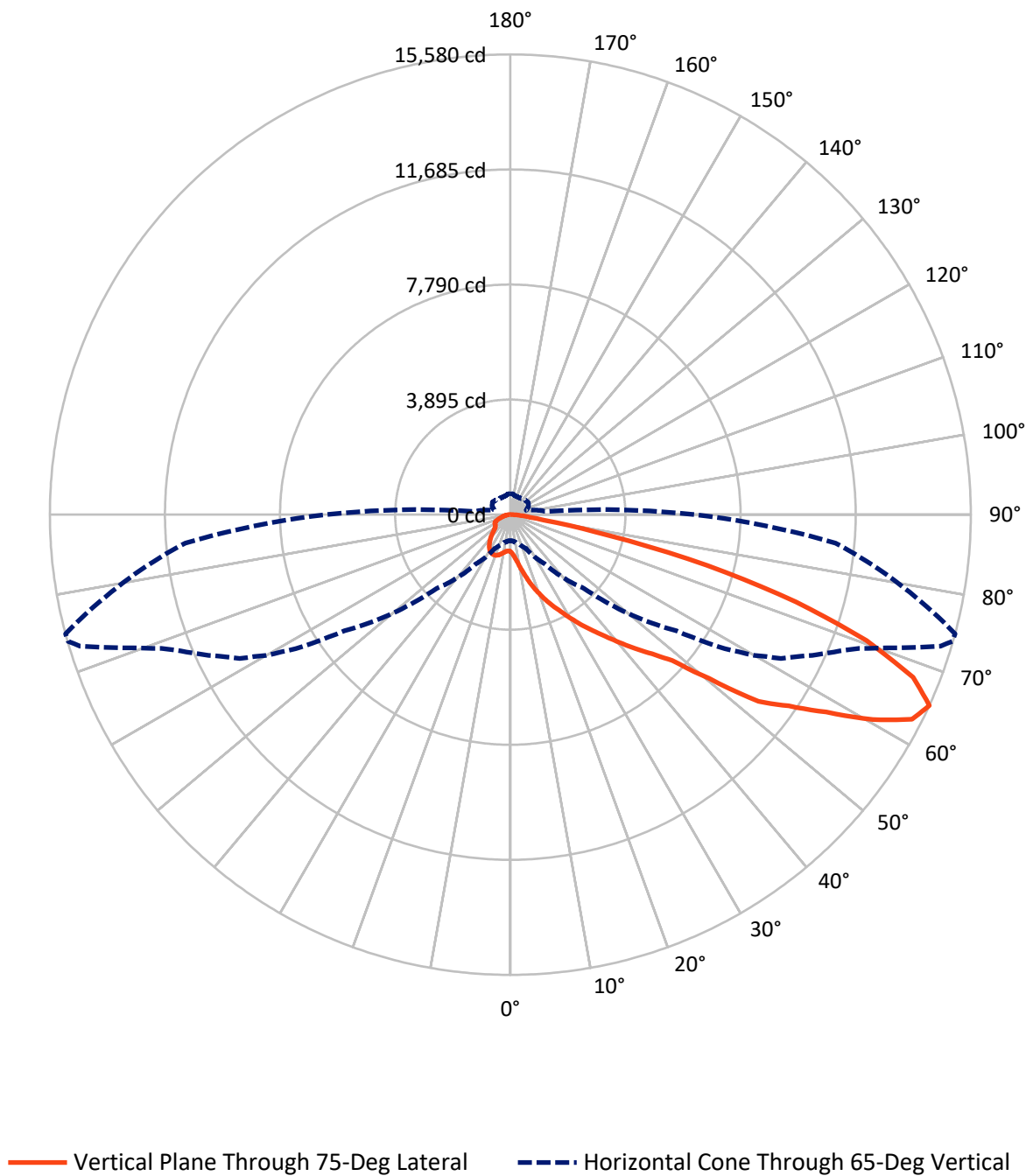


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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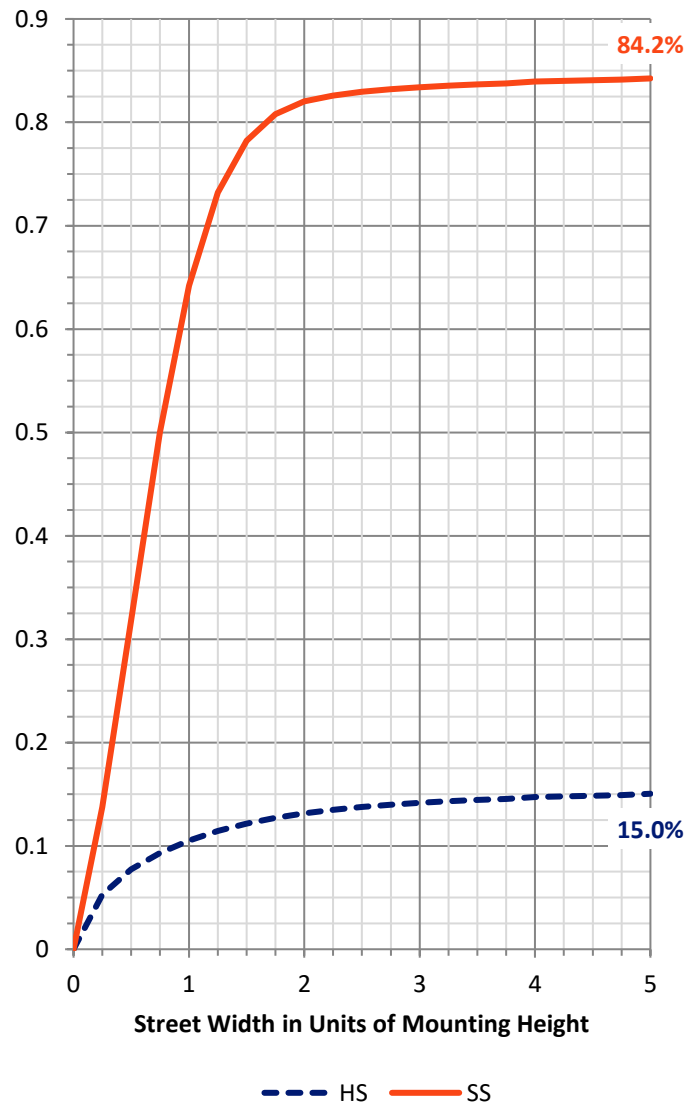
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2373.5	0.0	2373.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	13021.2	0.0	13021.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	15394.7	0.0	15394.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	1.0
10°-20°	604.2	3.9
20°-30°	1239.7	8.1
30°-40°	2085.7	13.5
40°-50°	2881.8	18.7
50°-60°	3597.4	23.4
60°-70°	3237.2	21.0
70°-80°	1357.0	8.8
80°-90°	237.1	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°	15394.7	100.0
0°-180°	15394.7	100.0

Coefficient of Utilization



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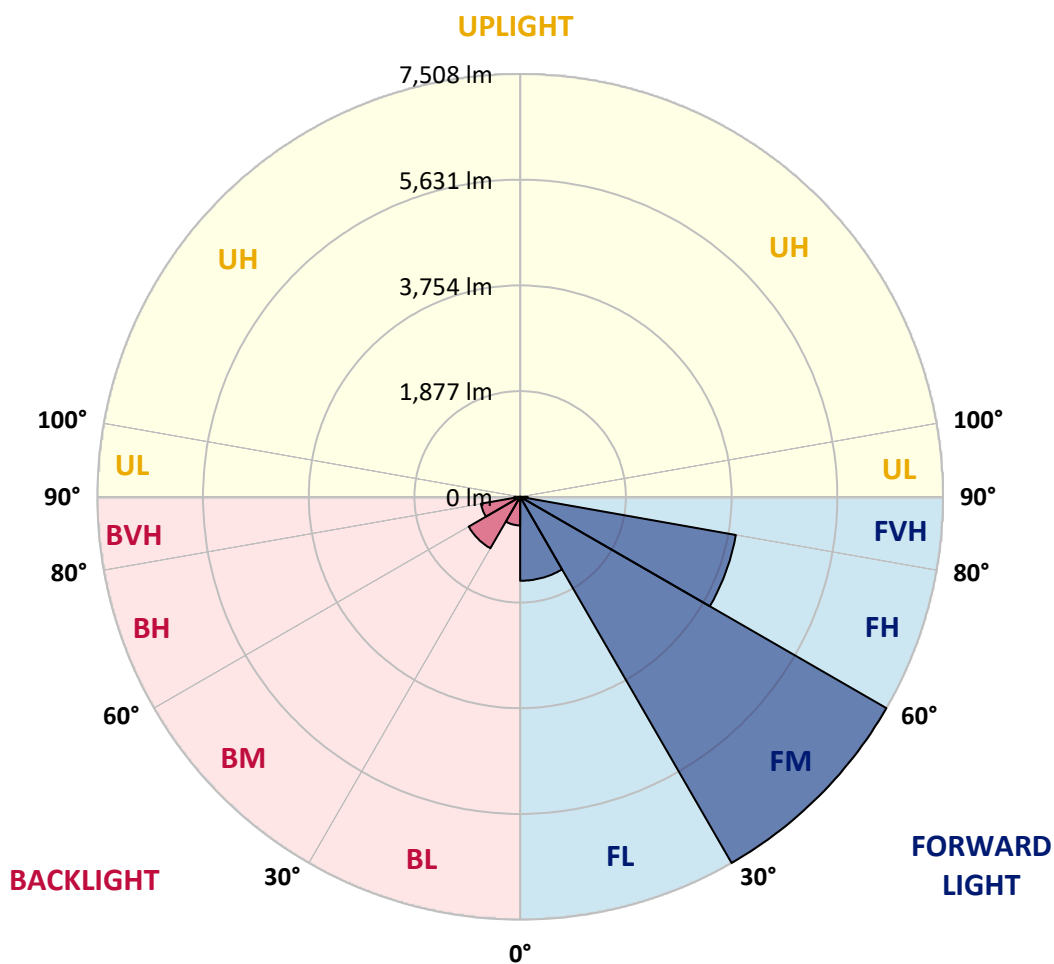
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1490.9	9.7			
FM	(30°-60°)	7508.4	48.8			
FH	(60°-80°)	3888.6	25.3			G2/5000
FVH	(80°-90°)	133.3	0.9			G2/225
BL	(0°-30°)	507.6	3.3	B2/1000		
BM	(30°-60°)	1056.5	6.9	B2/2500		
BH	(60°-80°)	705.6	4.6	B2/1000		G2/1000
BVH	(80°-90°)	103.8	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°	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1
2.5°	1588.5	1571.0	1575.3	1546.2	1510.5	1463.8	1412.2	1411.5	1412.2	1407.0	1388.2
5°	2202.6	2181.7	2173.7	2108.0	2011.8	1874.9	1726.2	1710.2	1703.5	1686.9	1648.2
7.5°	2650.9	2639.3	2626.7	2577.2	2489.9	2336.9	2137.1	2103.0	2070.1	2062.1	2018.5
10°	2940.2	2937.1	2911.0	2897.8	2843.3	2710.6	2516.1	2483.2	2447.5	2435.2	2389.2
12.5°	3168.9	3168.2	3155.9	3159.6	3112.0	3016.0	2848.3	2818.5	2792.3	2754.3	2721.6
15°	3327.1	3327.7	3346.1	3366.4	3359.1	3294.2	3136.9	3123.7	3101.2	3075.0	3036.4
17.5°	3456.8	3460.4	3479.3	3516.4	3556.6	3551.5	3426.9	3415.9	3396.3	3360.6	3340.3
20°	3749.7	3763.5	3727.2	3727.2	3731.5	3751.2	3691.3	3682.7	3655.0	3636.0	3620.0
22.5°	4244.4	4260.4	4178.1	4094.4	4012.1	3952.2	3892.5	3903.4	3884.5	3871.4	3861.9
25°	4887.1	4899.6	4766.3	4624.9	4457.1	4238.6	4090.8	4084.1	4073.9	4065.9	4061.6
27.5°	5491.9	5497.1	5371.1	5164.0	4969.4	4655.4	4291.8	4283.8	4271.5	4256.1	4242.9
30°	6009.4	6007.9	5878.2	5680.6	5472.2	5124.6	4597.2	4572.4	4535.8	4494.3	4462.3
32.5°	6457.5	6455.3	6313.1	6108.4	5889.8	5589.6	5015.5	4964.5	4907.6	4826.6	4777.9
35°	6810.0	6808.7	6674.5	6461.1	6210.4	6027.5	5494.9	5432.2	5360.0	5251.5	5176.5
37.5°	6943.4	6943.4	6868.4	6722.7	6501.1	6375.8	6027.5	5951.7	5874.5	5751.3	5666.8
40°	6865.3	6866.9	6882.9	6856.1	6748.2	6652.0	6524.5	6479.3	6412.9	6302.3	6214.1
42.5°	6603.8	6611.8	6718.4	6848.7	6902.5	6887.4	6965.2	6944.9	6898.2	6813.0	6743.0
45°	6272.2	6297.1	6413.6	6660.0	6945.5	7090.6	7334.6	7336.8	7328.1	7282.3	7228.3
47.5°	5817.0	5851.8	6005.7	6338.6	6845.0	7288.1	7709.9	7729.5	7747.9	7718.1	7693.2
50°	5212.2	5253.7	5483.9	5925.5	6640.3	7492.8	8418.9	8507.9	8590.9	8580.8	8597.4
52.5°	4564.4	4613.2	4895.1	5387.1	6288.4	7540.2	8872.1	9017.2	9162.2	9280.9	9406.9
55°	3979.9	3953.7	4235.8	4753.7	5709.8	7326.6	9279.6	9454.5	9616.2	9761.8	9912.1
57.5°	3187.9	3230.9	3513.6	4025.9	4943.9	6724.0	9560.0	9815.9	10048.3	10289.5	10502.2
60°	2330.2	2373.2	2679.9	3200.2	4112.6	5810.3	9345.7	9733.5	10105.7	10475.2	10763.7
62.5°	1407.0	1439.2	1709.4	2205.0	3171.2	4726.9	8391.2	8899.8	9447.8	9889.4	10331.6
65°	875.9	894.0	993.9	1266.5	2036.6	3529.0	6856.1	7410.5	8000.6	8561.1	9020.9
67.5°	717.0	723.5	741.8	800.0	1118.4	2301.2	5102.8	5593.9	6126.5	6668.6	7180.3
70°	644.8	640.5	640.5	644.1	717.0	1237.3	3340.9	3660.8	4104.6	4576.0	5043.8
72.5°	582.1	577.8	569.8	559.0	585.1	754.8	1726.9	1968.1	2288.0	2706.9	3155.0
75°	523.1	517.3	508.0	494.1	512.3	569.8	829.2	930.6	1086.4	1309.5	1559.4
77.5°	461.9	454.6	445.9	435.8	459.1	443.1	485.9	522.5	582.1	653.7	747.7
80°	392.8	386.3	383.2	378.3	405.9	337.4	343.3	365.7	400.8	439.4	483.1
82.5°	307.6	307.6	319.0	321.4	351.9	242.7	256.6	276.2	294.4	314.7	335.3
85°	202.5	204.1	243.4	258.7	277.5	163.2	192.4	198.9	213.6	225.2	233.9
87.5°	63.3	68.5	148.7	164.7	159.5	92.5	118.0	121.0	131.2	139.2	146.6
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°	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1
2.5°	1388.2	1379.3	1371.3	1370.6	1364.8	1356.8	1359.6	1347.3	1348.0	1341.5	1334.1
5°	1632.2	1626.4	1597.2	1589.2	1567.4	1553.5	1551.4	1522.2	1518.5	1501.9	1483.5
7.5°	1983.5	1964.4	1923.6	1903.9	1866.7	1839.1	1826.1	1787.4	1768.4	1724.7	1705.0
10°	2351.4	2327.4	2277.0	2249.3	2213.7	2169.1	2145.1	2089.2	2067.1	2027.1	1979.1
12.5°	2692.4	2668.5	2616.6	2595.4	2548.1	2500.7	2474.6	2411.2	2382.7	2318.5	2280.7
15°	3007.8	2983.8	2938.6	2916.8	2869.5	2830.8	2795.8	2733.3	2699.8	2639.9	2590.4
17.5°	3313.9	3288.4	3249.0	3229.4	3183.6	3144.2	3106.4	3047.2	3013.0	2953.3	2908.8
20°	3598.1	3579.1	3550.8	3524.4	3478.6	3442.9	3397.8	3346.8	3297.3	3253.4	3211.2
22.5°	3845.9	3838.5	3808.0	3796.4	3757.0	3726.3	3687.0	3636.8	3601.0	3545.6	3506.3
25°	4059.4	4057.3	4042.6	4038.9	4011.2	3982.0	3973.4	3931.9	3899.0	3850.2	3809.5
27.5°	4242.9	4245.1	4241.6	4251.8	4244.4	4231.3	4232.1	4218.3	4199.3	4158.4	4122.8
30°	4447.0	4435.3	4442.0	4456.5	4460.8	4462.3	4486.3	4494.3	4493.0	4466.0	4448.5
32.5°	4735.6	4707.9	4682.4	4680.2	4694.7	4700.5	4741.4	4762.6	4780.7	4787.2	4790.2
35°	5103.5	5048.1	4994.9	4966.6	4941.8	4948.3	4977.4	5011.8	5051.8	5079.5	5112.3
37.5°	5566.9	5499.2	5405.2	5338.2	5321.3	5285.0	5303.8	5330.9	5370.2	5413.2	5470.1
40°	6128.7	6026.0	5920.3	5831.5	5783.5	5716.3	5715.6	5710.4	5734.6	5774.6	5854.8
42.5°	6669.5	6578.3	6466.1	6372.9	6310.3	6220.6	6202.4	6155.1	6165.9	6200.9	6278.9
45°	7175.7	7100.7	7032.2	6924.6	6871.2	6774.3	6743.6	6687.7	6656.3	6672.3	6750.4
47.5°	7666.2	7618.2	7546.7	7476.9	7436.0	7349.3	7310.0	7269.8	7229.8	7228.3	7310.0
50°	8622.3	8596.8	8512.2	8439.4	8459.1	8352.7	8359.2	8251.3	8300.2	8306.0	8477.2
52.5°	9520.6	9609.7	9672.4	9748.7	9798.4	9807.9	9840.5	9889.4	9948.4	10064.9	10223.8
55°	10035.1	10146.6	10211.4	10269.8	10366.0	10386.3	10441.0	10505.9	10557.5	10688.7	10823.6
57.5°	10646.6	10853.4	10953.9	11046.5	11176.2	11225.7	11316.9	11387.6	11454.6	11609.8	11773.0
60°	11023.1	11275.4	11480.1	11626.4	11789.0	11905.7	12043.4	12154.0	12311.4	12497.3	12740.7
62.5°	10723.7	11093.8	11365.7	11617.1	11837.8	12060.9	12258.2	12465.3	12704.2	12985.4	13363.0
65°	9531.0	9907.5	10373.1	10634.0	10926.3	11270.2	11570.4	11905.7	12231.2	12640.8	13198.9
67.5°	7672.9	8110.6	8633.9	8897.0	9232.9	9616.8	9953.6	10363.0	10743.4	11239.5	11929.7
70°	5530.6	6096.7	6536.8	6811.5	7203.6	7599.2	7924.3	8400.7	8715.4	9224.0	9937.6
72.5°	3502.0	3948.5	4487.8	4833.9	5182.1	5583.1	5915.3	6326.3	6619.8	7083.2	7729.5
75°	1882.9	2212.1	2685.7	3014.5	3387.6	3730.0	4119.1	4394.5	4611.7	4978.3	5502.9
77.5°	882.4	1082.7	1322.4	1575.3	1828.3	2092.0	2348.5	2571.4	2664.8	2874.7	3184.2
80°	535.6	600.5	670.3	748.3	854.0	939.2	1052.2	1133.7	1139.6	1205.9	1300.6
82.5°	357.7	381.7	402.9	422.6	449.6	470.8	494.8	523.1	534.8	550.1	580.8
85°	244.0	255.7	260.0	272.6	269.5	276.9	286.4	295.9	300.9	300.2	314.1
87.5°	150.0	155.8	158.9	161.7	159.5	156.7	161.0	166.2	167.5	163.2	164.7
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1
2.5°	1335.6	1329.1	1322.4	1318.1	1316.6	1278.1	1261.3	1250.5	1227.1	1208.1	1192.8
5°	1473.3	1459.5	1448.7	1435.5	1428.1	1330.4	1294.8	1270.1	1229.3	1205.3	1183.2
7.5°	1694.9	1656.2	1633.7	1608.2	1586.4	1410.0	1351.0	1312.3	1255.4	1223.4	1198.6
10°	1946.3	1906.3	1870.4	1831.1	1796.9	1515.7	1429.7	1369.8	1294.8	1253.3	1220.4
12.5°	2226.8	2187.5	2142.3	2092.0	2048.3	1649.7	1530.2	1445.0	1342.1	1286.8	1241.0
15°	2558.4	2489.0	2434.4	2376.2	2325.2	1810.1	1647.5	1529.5	1392.5	1317.5	1256.3
17.5°	2866.5	2793.6	2719.5	2668.5	2609.4	1989.9	1765.6	1615.3	1434.0	1337.1	1259.1
20°	3167.6	3088.0	3024.0	2955.5	2893.5	2176.5	1891.6	1691.2	1461.0	1337.8	1241.0
22.5°	3432.8	3383.1	3311.7	3237.4	3174.7	2363.0	2009.6	1755.4	1471.2	1321.1	1208.7
25°	3734.3	3682.0	3594.5	3531.8	3462.0	2553.2	2125.5	1804.9	1465.3	1289.8	1159.2
27.5°	4056.4	3998.2	3908.5	3843.0	3758.5	2750.6	2231.8	1840.6	1443.5	1238.8	1092.9
30°	4392.3	4339.1	4250.9	4184.8	4099.4	2959.8	2350.7	1864.6	1399.8	1168.1	1015.7
32.5°	4753.1	4708.5	4621.2	4552.0	4460.8	3186.4	2461.4	1871.9	1333.5	1084.2	934.2
35°	5095.5	5065.0	4991.3	4926.4	4831.7	3400.6	2578.7	1868.2	1254.8	992.4	859.9
37.5°	5481.1	5462.7	5426.4	5344.0	5228.2	3691.3	2719.5	1852.9	1158.6	901.4	803.0
40°	5892.0	5893.5	5854.2	5798.0	5690.1	4044.1	2887.0	1823.1	1053.5	821.2	751.1
42.5°	6326.9	6349.6	6330.6	6290.6	6187.0	4399.6	3087.4	1786.7	951.7	743.1	700.3
45°	6825.4	6853.0	6882.2	6823.2	6722.7	4868.9	3351.1	1739.4	841.5	678.3	665.3
47.5°	7400.3	7444.0	7470.2	7471.0	7370.5	5450.4	3779.5	1710.9	744.0	634.6	648.5
50°	8613.4	8627.5	8689.3	8797.1	8720.0	6796.2	4527.8	1693.4	677.7	607.6	636.1
52.5°	10361.5	10513.9	10621.1	10613.7	10508.7	7650.9	4940.3	1603.0	638.3	597.5	630.3
55°	11073.5	11263.7	11461.9	11514.2	11432.7	8380.4	5330.2	1512.7	619.3	604.8	632.5
57.5°	12022.2	12342.8	12614.7	12729.0	12611.0	9313.8	5843.1	1465.3	613.5	624.5	646.3
60°	13130.4	13526.9	13883.9	14089.3	14089.3	10386.3	6375.1	1445.7	605.5	653.7	669.7
62.5°	13842.4	14424.6	14963.9	15264.8	15255.9	11133.1	6611.1	1378.6	587.3	674.0	701.6
65°	13845.3	14537.6	15224.5	15562.8	15580.1	11041.5	6221.4	1217.6	553.8	677.0	733.9
67.5°	12691.2	13429.2	14230.0	14608.3	14695.6	10164.1	5385.5	1001.2	499.1	647.8	745.5
70°	10718.6	11439.2	12256.7	12628.5	12783.7	8664.4	4337.6	771.7	429.3	583.6	721.3
72.5°	8444.4	9151.2	9720.3	9992.0	10113.1	6622.8	3158.7	583.0	351.9	491.8	656.5
75°	5978.7	6509.1	6811.5	6872.0	6890.9	3992.4	1919.3	433.6	290.1	382.6	554.4
77.5°	3374.4	3601.8	3577.0	3604.0	3379.6	1541.2	835.9	310.4	239.1	290.7	429.9
80°	1317.5	1358.3	1276.0	1250.5	1146.9	573.5	368.8	216.4	190.9	220.0	300.9
82.5°	580.8	599.6	582.1	586.6	561.1	295.9	220.7	156.7	145.7	161.0	199.7
85°	319.9	325.7	324.2	333.7	319.9	118.0	104.8	96.2	102.0	109.4	128.2
87.5°	155.8	157.4	152.4	160.4	155.2	59.7	51.7	54.7	59.7	61.2	61.2
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):

	135°	145°	155°	165°	175°	180°
0°	1251.1	1251.1	1251.1	1251.1	1251.1	1251.1
2.5°	1181.9	1176.1	1176.8	1175.2	1172.4	1172.4
5°	1171.8	1165.9	1165.9	1164.4	1160.8	1161.4
7.5°	1181.9	1172.4	1168.8	1163.6	1158.6	1158.6
10°	1193.6	1176.8	1166.6	1158.0	1151.2	1151.2
12.5°	1202.3	1176.1	1159.2	1147.6	1141.1	1141.1
15°	1205.3	1170.9	1147.6	1133.7	1127.9	1127.3
17.5°	1195.8	1151.2	1122.9	1106.9	1099.6	1097.4
20°	1166.6	1115.6	1081.4	1063.1	1052.9	1049.2
22.5°	1122.9	1064.6	1024.6	1005.6	992.4	990.2
25°	1061.8	999.1	959.7	941.4	934.2	931.9
27.5°	990.2	931.9	898.3	886.7	880.2	879.5
30°	922.6	872.8	848.2	839.3	831.3	830.0
32.5°	859.0	827.7	818.4	805.8	787.0	784.9
35°	813.8	811.0	804.5	776.7	753.5	746.8
37.5°	786.2	813.2	779.7	725.0	708.3	706.8
40°	770.2	790.7	733.0	714.2	715.5	714.2
42.5°	733.9	754.8	734.5	725.9	731.5	733.0
45°	697.3	720.7	745.5	739.7	753.5	753.5
47.5°	677.0	711.8	744.7	744.7	765.2	772.3
50°	653.7	704.7	733.0	743.1	759.4	753.5
52.5°	652.1	692.1	716.3	734.5	741.8	735.1
55°	654.3	682.0	699.5	720.0	728.7	729.3
57.5°	657.3	676.1	687.8	697.3	723.5	723.5
60°	664.5	671.2	677.7	682.8	717.0	717.6
62.5°	676.1	666.0	664.5	669.7	713.3	710.5
65°	694.5	658.6	647.8	652.8	709.6	701.0
67.5°	719.2	647.8	626.6	630.3	706.8	687.8
70°	741.8	630.3	600.5	596.8	679.2	645.7
72.5°	744.0	610.0	564.0	553.1	590.3	558.1
75°	707.5	595.9	524.0	491.8	487.4	483.1
77.5°	637.7	587.9	477.3	426.9	418.3	421.1
80°	533.5	558.1	421.1	361.4	408.8	403.8
82.5°	398.6	492.6	357.7	319.9	319.0	282.1
85°	221.6	384.1	291.4	239.7	166.9	161.7
87.5°	62.0	213.6	204.1	135.5	92.5	96.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)