

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: P193131

Luminaire Tested: **GLEON-AF-03-LED-E1-T2R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193131
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12064.4 lumens
Efficiency: N/A
Efficacy: 125.7 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): 96
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



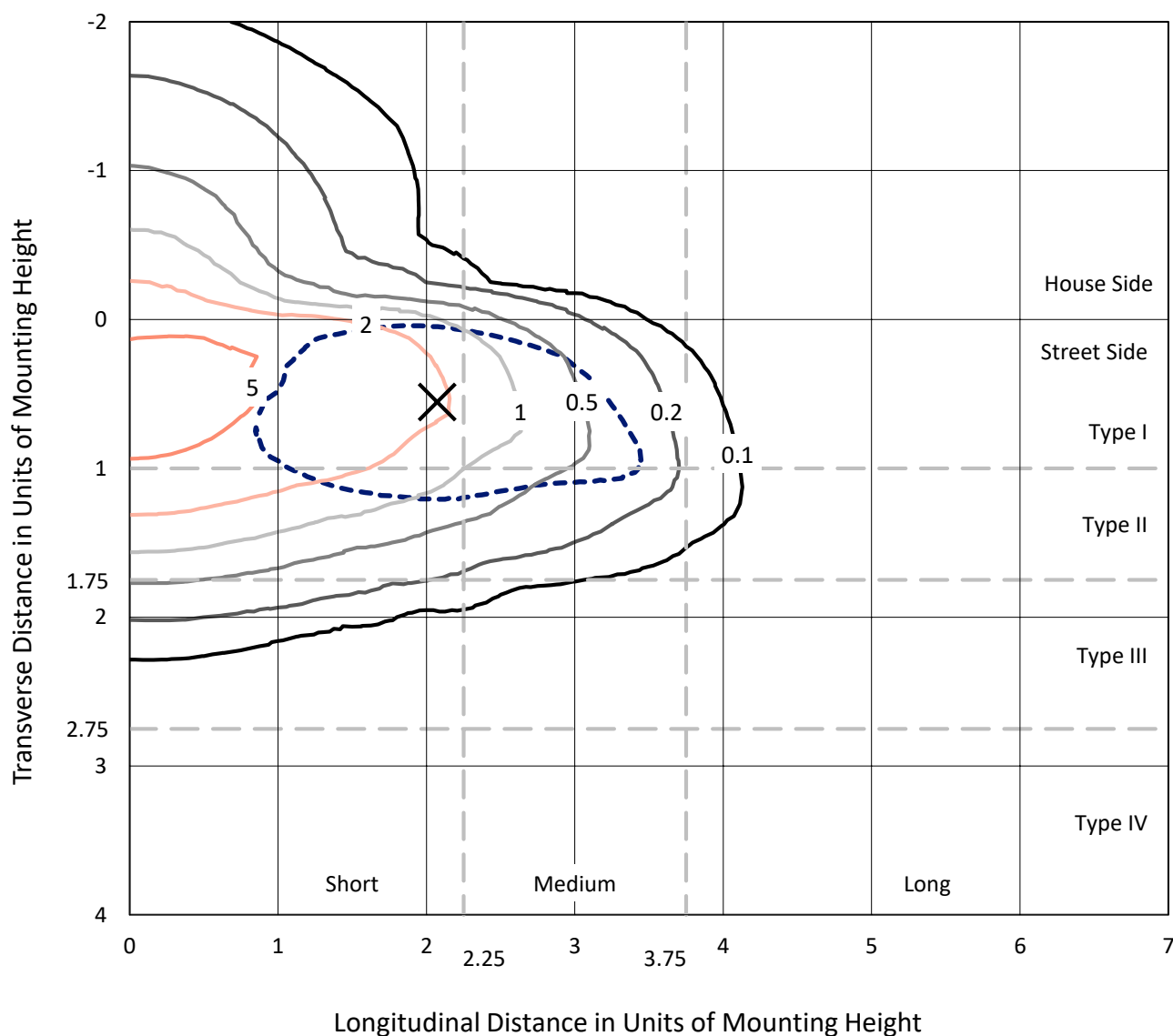
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

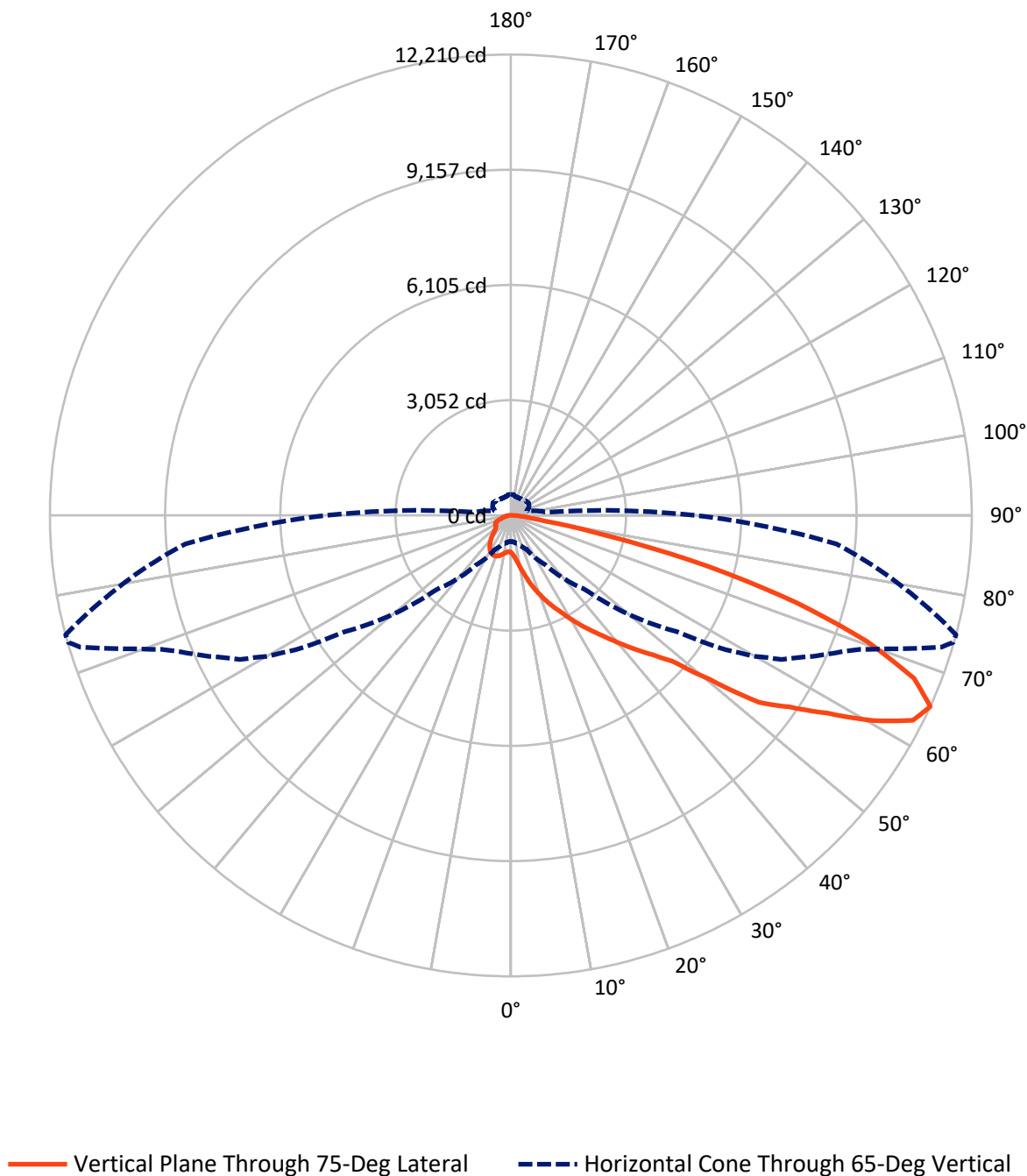


Based on 20 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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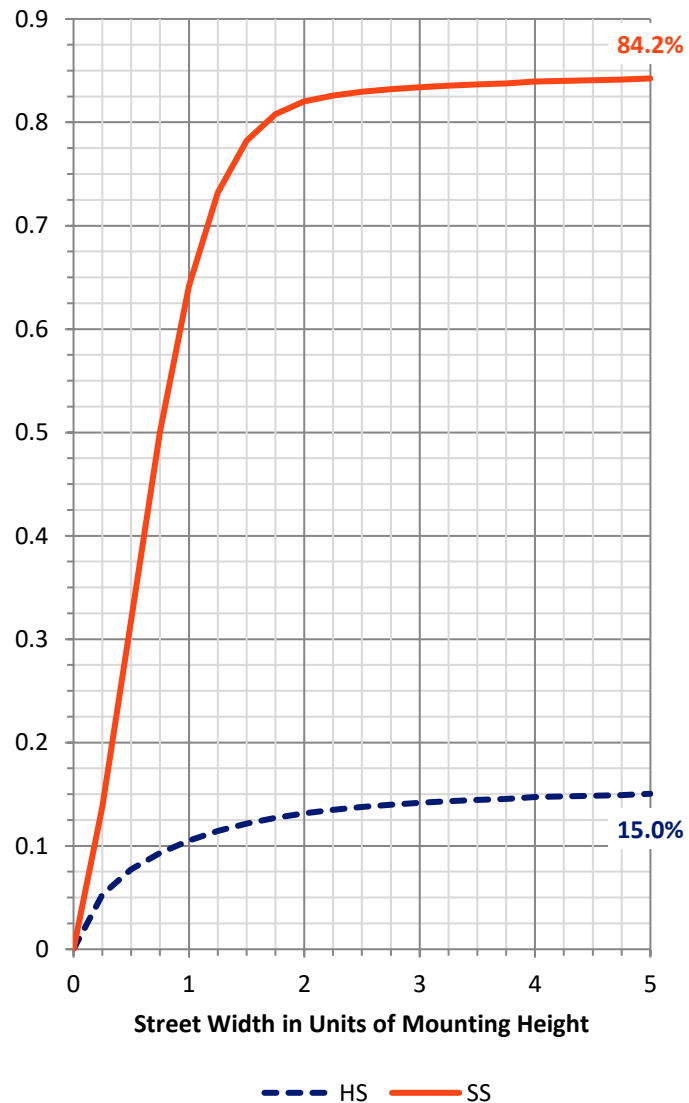
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1860.0	0.0	1860.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	10204.4	0.0	10204.4
	% Fixture	84.6	0.0	84.6
Total	Lumens	12064.4	0.0	12064.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	1.0
10°-20°	473.5	3.9
20°-30°	971.5	8.1
30°-40°	1634.5	13.5
40°-50°	2258.4	18.7
50°-60°	2819.2	23.4
60°-70°	2536.9	21.0
70°-80°	1063.5	8.8
80°-90°	185.8	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°	12064.4	100.0
0°-180°	12064.4	100.0

Coefficient of Utilization



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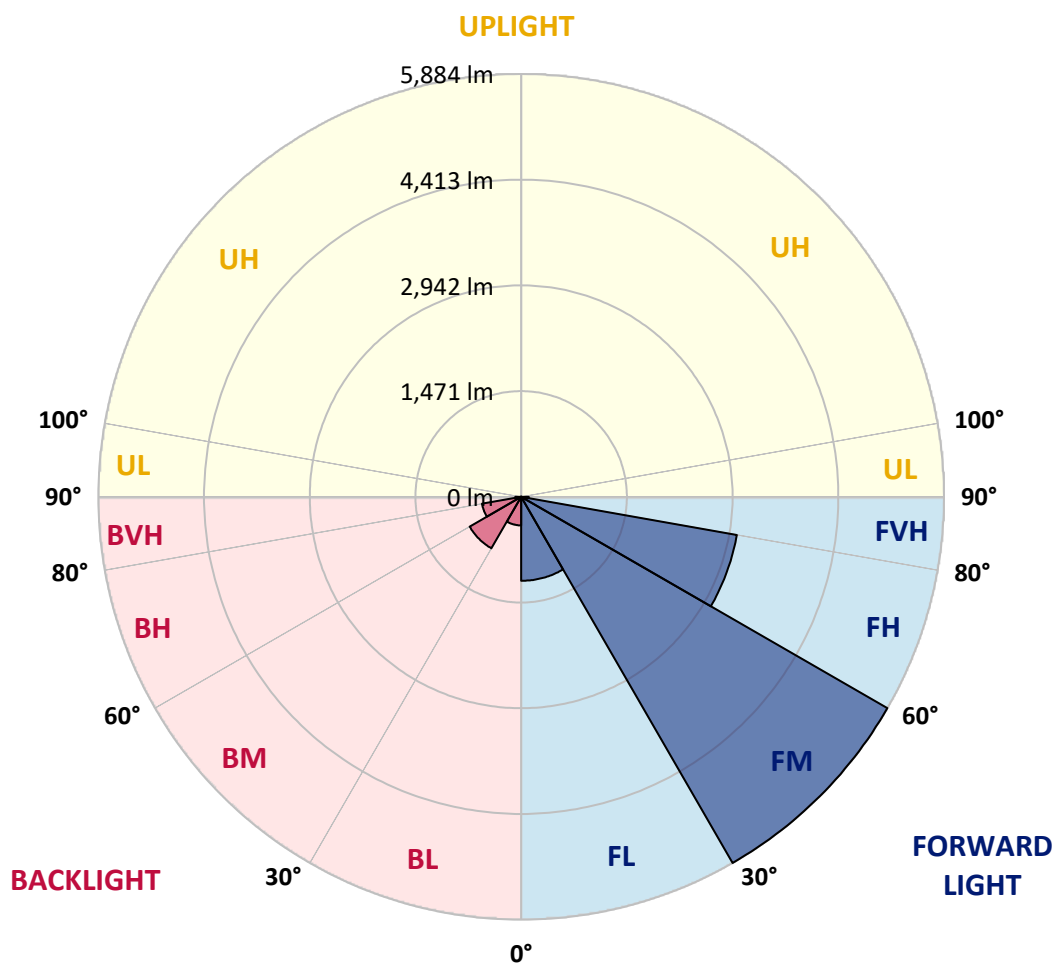
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1168.4	9.7			
FM	(30°-60°)	5884.1	48.8			
FH	(60°-80°)	3047.4	25.3			G2/5000
FVH	(80°-90°)	104.4	0.9			G2/225
BL	(0°-30°)	397.8	3.3	B1/500		
BM	(30°-60°)	827.9	6.9	B1/1000		
BH	(60°-80°)	553.0	4.6	B2/1000		G2/1000
BVH	(80°-90°)	81.4	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°	980.5	980.5	980.5	980.5	980.5	980.5	980.5	980.5	980.5	980.5	980.5
2.5°	1244.9	1231.2	1234.5	1211.6	1183.8	1147.2	1106.7	1106.1	1106.7	1102.7	1087.7
5°	1726.2	1709.7	1703.4	1652.0	1576.6	1469.3	1352.7	1340.2	1335.0	1321.9	1291.7
7.5°	2077.4	2068.3	2058.6	2019.7	1951.3	1831.3	1674.8	1647.9	1622.3	1616.1	1581.7
10°	2304.2	2301.9	2281.3	2271.0	2228.2	2124.2	1971.8	1946.1	1918.0	1908.4	1872.3
12.5°	2483.5	2482.8	2473.2	2476.1	2438.8	2363.5	2232.1	2208.7	2188.3	2158.5	2132.8
15°	2607.4	2607.9	2622.2	2638.2	2632.5	2581.7	2458.4	2448.1	2430.4	2409.7	2379.4
17.5°	2709.0	2711.9	2726.7	2755.8	2787.2	2783.2	2685.6	2677.0	2661.5	2633.5	2617.7
20°	2938.5	2949.4	2920.8	2920.8	2924.3	2939.7	2892.8	2886.0	2864.3	2849.5	2836.9
22.5°	3326.3	3338.9	3274.3	3208.6	3144.2	3097.3	3050.4	3059.0	3044.2	3033.9	3026.5
25°	3829.9	3839.6	3735.1	3624.3	3493.0	3321.7	3205.7	3200.6	3192.7	3186.3	3182.9
27.5°	4303.8	4307.9	4209.1	4047.0	3894.4	3648.3	3363.4	3357.1	3347.3	3335.3	3325.1
30°	4709.3	4708.2	4606.5	4451.8	4288.4	4016.1	3602.6	3583.2	3554.6	3522.1	3497.1
32.5°	5060.5	5058.8	4947.5	4786.9	4615.6	4380.4	3930.4	3890.4	3845.9	3782.5	3744.4
35°	5336.9	5335.7	5230.7	5063.4	4867.0	4723.6	4306.1	4257.1	4200.5	4115.5	4056.6
37.5°	5441.3	5441.3	5382.5	5268.4	5094.8	4996.5	4723.6	4664.2	4603.6	4507.2	4441.0
40°	5380.3	5381.4	5394.0	5372.9	5288.3	5213.0	5113.0	5077.6	5025.7	4938.8	4869.8
42.5°	5175.3	5181.5	5264.8	5367.2	5409.4	5397.4	5458.5	5442.5	5405.9	5339.2	5284.4
45°	4915.5	4934.9	5026.3	5219.2	5443.1	5556.7	5748.0	5749.8	5742.8	5706.9	5664.6
47.5°	4558.6	4585.9	4706.5	4967.4	5364.3	5711.5	6042.1	6057.6	6071.7	6048.4	6028.9
50°	4084.5	4117.1	4297.6	4643.6	5203.8	5871.9	6597.7	6667.4	6732.4	6724.5	6737.6
52.5°	3576.9	3615.2	3836.2	4221.7	4928.0	5909.1	6952.9	7066.6	7180.2	7273.3	7372.0
55°	3119.1	3098.4	3319.4	3725.4	4474.6	5741.8	7272.1	7409.2	7535.9	7650.2	7767.8
57.5°	2498.3	2532.0	2753.6	3155.0	3874.5	5269.5	7491.9	7692.4	7874.6	8063.6	8230.3
60°	1826.2	1859.8	2100.3	2507.9	3222.9	4553.4	7324.0	7627.8	7919.6	8209.2	8435.3
62.5°	1102.7	1127.8	1339.6	1727.9	2485.1	3704.3	6576.0	6974.6	7404.1	7750.1	8096.6
65°	686.3	700.7	778.9	992.4	1596.1	2765.5	5372.9	5807.4	6270.0	6709.1	7069.4
67.5°	561.9	567.0	581.3	627.0	876.6	1803.4	3999.0	4383.8	4801.3	5226.1	5627.0
70°	505.4	501.9	501.9	504.8	561.9	969.5	2618.2	2868.8	3216.6	3586.1	3952.7
72.5°	456.2	452.9	446.6	438.0	458.6	591.6	1353.4	1542.4	1793.1	2121.4	2472.5
75°	410.0	405.5	398.0	387.3	401.4	446.6	649.9	729.2	851.4	1026.2	1222.1
77.5°	362.0	356.3	349.5	341.4	359.8	347.2	380.9	409.4	456.2	512.2	585.8
80°	307.8	302.6	300.4	296.4	318.1	264.4	269.0	286.7	314.1	344.3	378.6
82.5°	241.0	241.0	250.1	251.9	275.8	190.1	201.0	216.5	230.6	246.7	262.7
85°	158.8	159.8	190.7	202.6	217.5	128.0	150.8	155.9	167.2	176.5	183.3
87.5°	49.7	53.6	116.5	129.0	125.1	72.5	92.6	94.8	102.8	109.0	114.8
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	980.5	980.5	980.5	980.5	980.5	980.5	980.5	980.5	980.5	980.5	980.5
2.5°	1087.7	1081.0	1074.7	1074.1	1069.5	1063.3	1065.5	1055.9	1056.4	1051.3	1045.6
5°	1279.1	1274.5	1251.7	1245.4	1228.3	1217.4	1215.7	1192.9	1190.1	1176.9	1162.6
7.5°	1554.3	1539.5	1507.6	1492.2	1463.0	1441.2	1431.0	1400.7	1385.9	1351.6	1336.2
10°	1842.7	1823.9	1784.5	1762.8	1734.8	1700.0	1681.2	1637.1	1620.0	1588.6	1550.9
12.5°	2110.1	2091.1	2050.6	2034.0	1996.9	1959.8	1939.3	1889.5	1867.2	1817.0	1787.4
15°	2357.3	2338.3	2302.9	2285.8	2248.8	2218.5	2191.0	2141.9	2115.7	2068.9	2030.0
17.5°	2597.1	2577.1	2546.3	2530.8	2494.8	2464.1	2434.3	2388.1	2361.2	2314.4	2279.5
20°	2819.8	2804.9	2782.7	2762.1	2726.1	2698.1	2662.7	2622.8	2583.9	2549.7	2516.6
22.5°	3013.9	3008.2	2984.2	2975.1	2944.2	2920.3	2889.5	2850.0	2822.0	2778.7	2747.8
25°	3181.2	3179.6	3168.1	3165.2	3143.5	3120.7	3113.9	3081.3	3055.6	3017.3	2985.4
27.5°	3325.1	3326.8	3324.0	3332.0	3326.3	3316.0	3316.6	3305.7	3290.9	3258.8	3230.9
30°	3485.1	3475.9	3481.0	3492.5	3495.9	3497.1	3515.9	3522.1	3521.0	3499.9	3486.1
32.5°	3711.1	3689.4	3669.5	3667.8	3679.2	3683.7	3715.7	3732.3	3746.5	3751.6	3753.9
35°	3999.6	3956.2	3914.4	3892.2	3872.7	3877.9	3900.8	3927.6	3959.0	3980.7	4006.3
37.5°	4362.7	4309.6	4235.9	4183.4	4170.2	4141.7	4156.5	4177.6	4208.5	4242.2	4286.8
40°	4802.9	4722.4	4639.7	4570.0	4532.3	4479.7	4479.2	4475.2	4494.1	4525.4	4588.3
42.5°	5226.6	5155.3	5067.3	4994.2	4945.2	4874.9	4860.6	4823.5	4832.1	4859.6	4920.6
45°	5623.6	5564.7	5511.0	5426.6	5384.9	5308.9	5284.9	5240.9	5216.4	5228.9	5290.0
47.5°	6007.8	5970.2	5914.2	5859.3	5827.4	5759.5	5728.6	5697.3	5665.7	5664.6	5728.6
50°	6757.0	6737.0	6670.9	6613.7	6629.1	6545.7	6550.8	6466.4	6504.6	6509.2	6643.4
52.5°	7461.1	7530.8	7579.9	7639.9	7678.6	7686.1	7711.8	7750.1	7796.3	7887.7	8012.2
55°	7864.3	7951.7	8002.4	8048.1	8123.5	8139.5	8182.3	8233.1	8273.6	8376.5	8482.2
57.5°	8343.4	8505.5	8584.4	8656.8	8758.6	8797.3	8868.7	8924.1	8976.6	9098.2	9226.2
60°	8638.6	8836.2	8996.6	9111.4	9238.8	9330.0	9438.1	9524.7	9648.1	9793.8	9984.5
62.5°	8403.9	8694.0	8907.0	9104.0	9276.9	9451.7	9606.5	9768.7	9955.9	10176.4	10472.2
65°	7469.1	7764.3	8129.2	8333.6	8562.6	8832.2	9067.4	9330.0	9585.4	9906.3	10343.7
67.5°	6013.0	6356.1	6766.2	6972.3	7235.5	7536.4	7800.3	8121.2	8419.3	8808.2	9349.0
70°	4334.1	4777.8	5122.7	5338.0	5645.2	5955.2	6210.0	6583.4	6830.2	7228.7	7787.8
72.5°	2744.4	3094.4	3516.9	3788.2	4061.1	4375.3	4635.7	4957.7	5187.8	5551.0	6057.6
75°	1475.5	1733.6	2104.9	2362.4	2654.8	2923.1	3228.1	3443.9	3614.1	3901.3	4312.5
77.5°	691.5	848.5	1036.5	1234.5	1432.7	1639.4	1840.5	2015.2	2088.3	2252.7	2495.4
80°	419.7	470.6	525.3	586.5	669.2	736.1	824.6	888.5	893.0	945.1	1019.3
82.5°	280.4	299.3	315.8	331.2	352.4	368.9	387.8	410.0	419.1	431.1	455.1
85°	191.3	200.4	203.9	213.6	211.3	217.0	224.4	231.8	235.9	235.2	246.2
87.5°	117.7	122.2	124.4	126.7	125.1	122.8	126.2	130.2	131.3	128.0	129.0
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°	980.5	980.5	980.5	980.5	980.5	980.5	980.5	980.5	980.5	980.5	980.5
2.5°	1046.7	1041.6	1036.5	1033.0	1031.9	1001.6	988.5	979.9	961.6	946.7	934.8
5°	1154.7	1143.7	1135.2	1125.0	1119.3	1042.7	1014.7	995.4	963.3	944.4	927.4
7.5°	1328.3	1298.0	1280.3	1260.3	1243.2	1104.9	1058.7	1028.4	983.9	958.7	939.3
10°	1525.3	1493.8	1465.8	1435.0	1408.2	1187.7	1120.4	1073.6	1014.7	982.1	956.4
12.5°	1745.1	1714.3	1678.9	1639.4	1605.1	1292.9	1199.1	1132.4	1051.8	1008.5	972.5
15°	2004.9	1950.6	1907.7	1862.1	1822.1	1418.4	1291.1	1198.6	1091.3	1032.4	984.4
17.5°	2246.5	2189.3	2131.1	2091.1	2044.9	1559.4	1383.7	1266.0	1123.8	1047.8	986.7
20°	2482.3	2420.1	2369.9	2316.1	2267.5	1705.6	1482.4	1325.4	1144.9	1048.5	972.5
22.5°	2690.2	2651.2	2595.4	2537.1	2488.0	1851.8	1574.9	1375.6	1152.9	1035.2	947.4
25°	2926.5	2885.4	2816.9	2767.7	2713.0	2000.9	1665.6	1414.5	1148.4	1010.7	908.5
27.5°	3178.9	3133.2	3063.0	3011.6	2945.4	2155.6	1749.0	1442.4	1131.3	970.8	856.6
30°	3442.2	3400.4	3331.5	3279.4	3212.7	2319.6	1842.1	1461.3	1097.0	915.4	796.1
32.5°	3724.8	3690.0	3621.5	3567.2	3495.9	2497.1	1929.0	1467.1	1044.9	849.7	732.0
35°	3993.2	3969.3	3911.6	3860.7	3786.5	2665.1	2020.9	1464.2	983.4	777.7	673.8
37.5°	4295.3	4281.0	4252.5	4187.9	4097.1	2892.8	2131.1	1452.2	908.0	706.4	629.3
40°	4617.4	4618.5	4587.7	4543.8	4459.2	3169.3	2262.4	1428.7	825.7	643.5	588.7
42.5°	4958.3	4976.0	4961.1	4929.8	4848.6	3447.9	2419.4	1400.1	745.8	582.5	548.8
45°	5348.9	5370.5	5393.4	5347.1	5268.4	3815.7	2626.1	1363.0	659.5	531.6	521.3
47.5°	5799.4	5833.7	5854.2	5854.7	5776.0	4271.4	2961.9	1340.8	583.0	497.3	508.3
50°	6750.1	6761.1	6809.6	6894.0	6833.5	5326.1	3548.4	1327.1	531.1	476.3	498.6
52.5°	8120.0	8239.5	8323.4	8317.7	8235.4	5995.8	3871.6	1256.3	500.2	468.2	494.0
55°	8678.0	8827.0	8982.3	9023.5	8959.5	6567.5	4177.1	1185.5	485.3	473.9	495.7
57.5°	9421.4	9672.7	9885.8	9975.4	9882.8	7298.9	4579.2	1148.4	480.8	489.4	506.5
60°	10290.0	10600.7	10880.5	11041.5	11041.5	8139.5	4996.0	1132.9	474.5	512.2	524.8
62.5°	10848.0	11304.2	11726.7	11962.6	11955.7	8724.8	5181.0	1080.3	460.2	528.2	549.9
65°	10850.2	11392.7	11931.2	12196.2	12209.8	8652.9	4875.4	954.2	434.0	530.5	575.0
67.5°	9945.7	10524.2	11151.6	11448.0	11516.6	7965.3	4220.4	784.6	391.1	507.6	584.2
70°	8399.9	8964.6	9605.3	9896.6	10018.2	6790.1	3399.4	604.8	336.3	457.4	565.3
72.5°	6617.8	7171.6	7617.5	7830.6	7925.3	5190.2	2475.4	456.8	275.8	385.4	514.5
75°	4685.4	5101.0	5338.0	5385.4	5400.2	3128.6	1504.1	339.8	227.3	299.8	434.6
77.5°	2644.4	2822.6	2803.1	2824.4	2648.5	1207.8	655.0	243.2	187.3	227.8	336.9
80°	1032.4	1064.4	999.8	979.9	898.7	449.4	289.0	169.6	149.5	172.4	235.9
82.5°	455.1	470.0	456.2	459.7	439.7	231.8	173.0	122.8	114.1	126.2	156.5
85°	250.6	255.2	254.1	261.5	250.6	92.6	82.3	75.4	80.0	85.7	100.5
87.5°	122.2	123.4	119.3	125.6	121.6	46.9	40.5	42.8	46.9	48.0	48.0
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):

	135°	145°	155°	165°	175°	180°
0°	980.5	980.5	980.5	980.5	980.5	980.5
2.5°	926.2	921.6	922.2	921.0	918.8	918.8
5°	918.3	913.6	913.6	912.6	909.7	910.2
7.5°	926.2	918.8	915.9	912.0	908.0	908.0
10°	935.4	922.2	914.2	907.4	902.3	902.3
12.5°	942.3	921.6	908.5	899.4	894.3	894.3
15°	944.4	917.7	899.4	888.5	883.9	883.4
17.5°	937.1	902.3	880.0	867.4	861.7	860.0
20°	914.2	874.3	847.5	833.1	825.1	822.2
22.5°	880.0	834.3	802.8	788.0	777.7	776.1
25°	832.0	782.9	752.0	737.8	732.0	730.4
27.5°	776.1	730.4	704.0	695.0	689.8	689.2
30°	723.0	684.1	664.8	657.8	651.5	650.4
32.5°	673.2	648.7	641.3	631.5	616.8	615.0
35°	637.8	635.6	630.4	608.7	590.4	585.3
37.5°	616.1	637.3	611.0	568.1	555.0	554.0
40°	603.5	619.6	574.4	559.6	560.7	559.6
42.5°	575.0	591.6	575.6	568.7	573.3	574.4
45°	546.6	564.8	584.2	579.6	590.4	590.4
47.5°	530.5	557.9	583.6	583.6	599.7	605.3
50°	512.2	552.2	574.4	582.5	595.0	590.4
52.5°	511.2	542.5	561.4	575.6	581.3	576.2
55°	512.8	534.5	548.2	564.3	571.0	571.7
57.5°	515.0	529.9	539.0	546.6	567.0	567.0
60°	520.7	526.0	531.1	535.1	561.9	562.4
62.5°	529.9	521.9	520.7	524.8	559.1	556.7
65°	544.2	516.2	507.6	511.7	556.2	549.3
67.5°	563.6	507.6	491.1	494.0	554.0	539.0
70°	581.3	494.0	470.6	467.6	532.2	506.0
72.5°	583.0	478.0	442.0	433.4	462.5	437.4
75°	554.5	467.1	410.6	385.4	382.0	378.6
77.5°	499.7	460.8	374.0	334.7	327.8	330.1
80°	418.0	437.4	330.1	283.2	320.3	316.3
82.5°	312.4	386.0	280.4	250.6	250.1	221.0
85°	173.6	300.9	228.5	187.8	130.8	126.7
87.5°	48.5	167.2	159.8	106.2	72.5	75.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)