

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: P194749

Luminaire Tested: **GLEON-AF-01-LED-E1-T2R-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194749
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-01-LED-E1-T2R-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6493 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 59
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



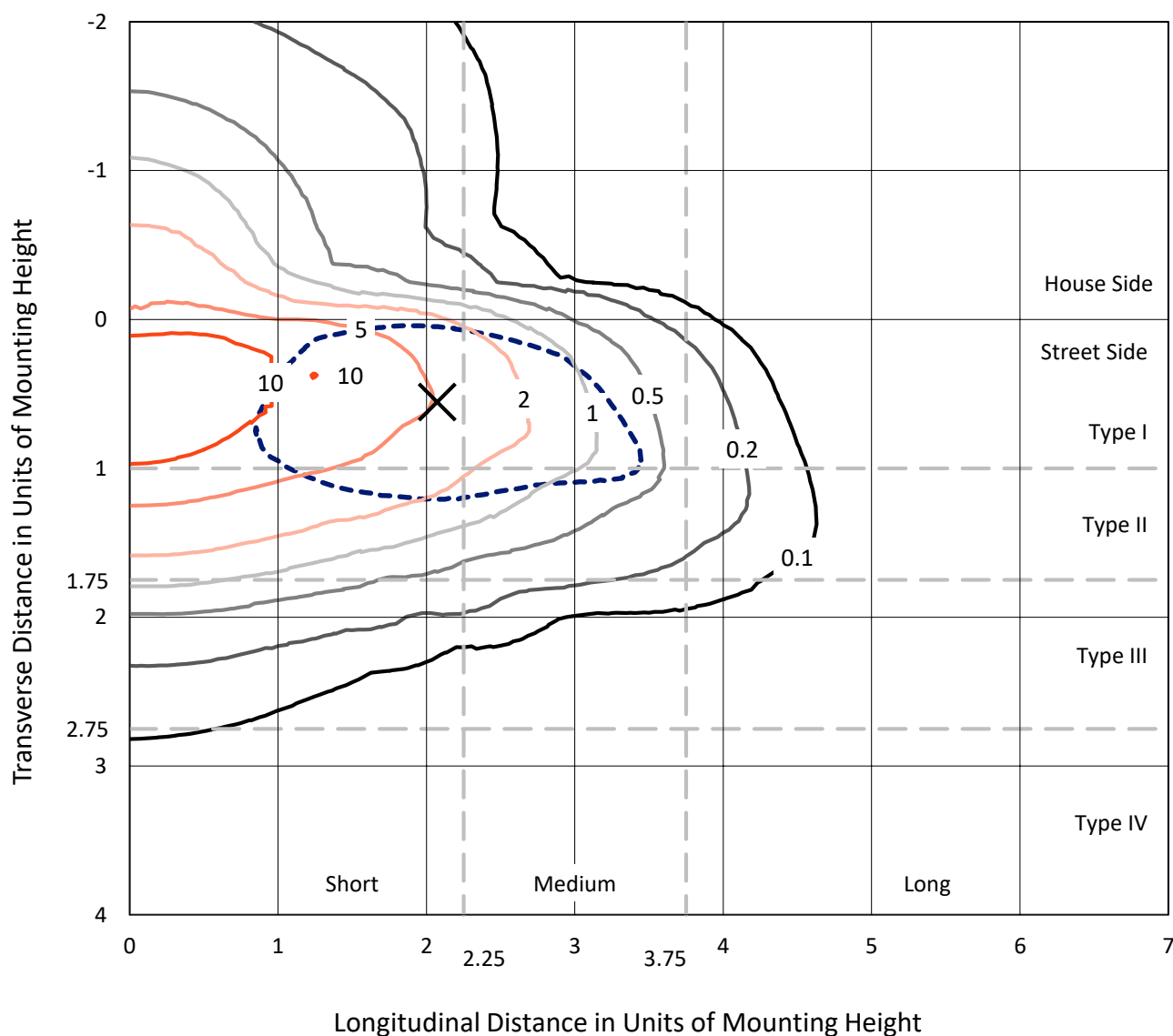
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

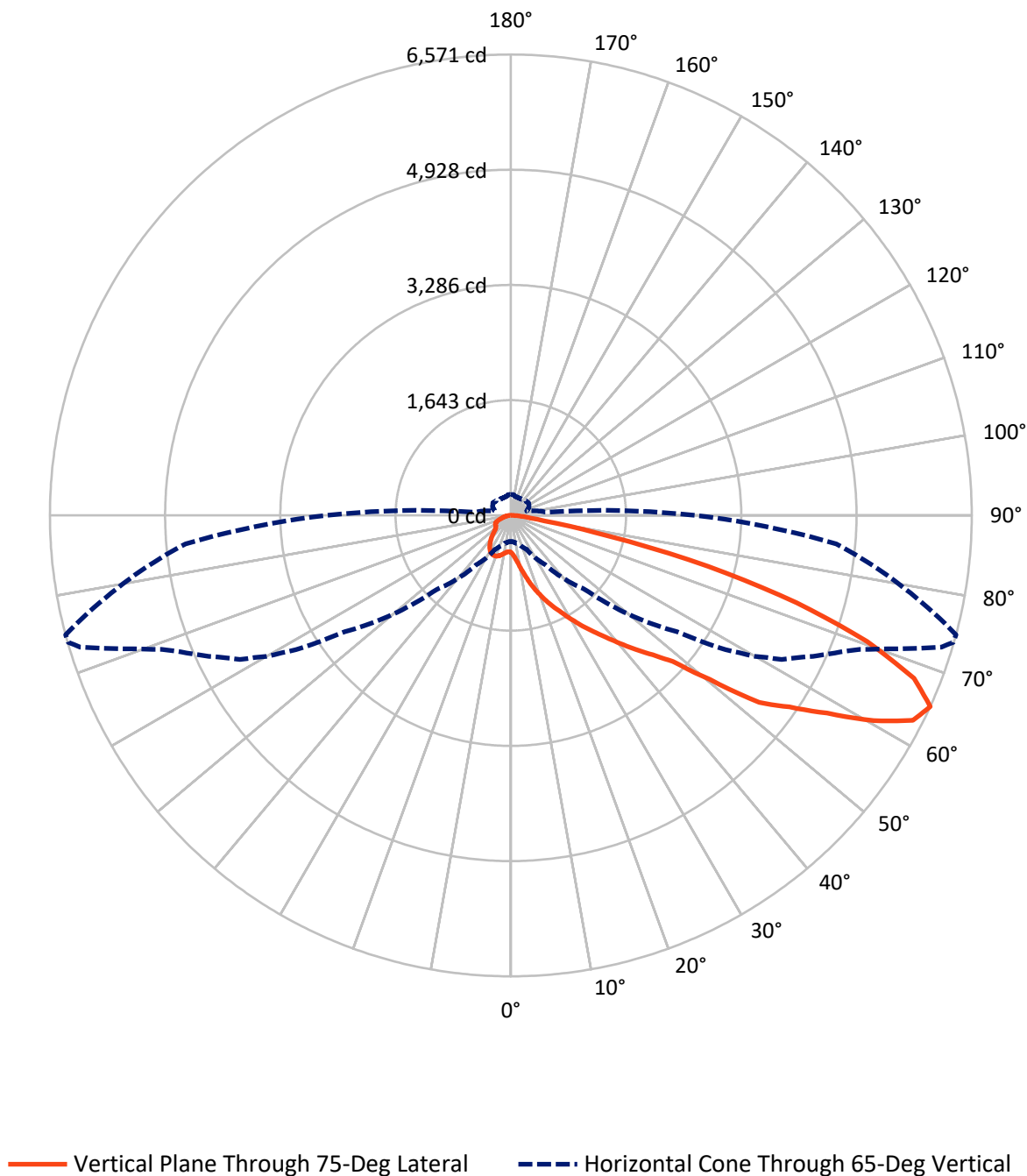


Based on 10 foot mounting height. Maximum calculated value = 16.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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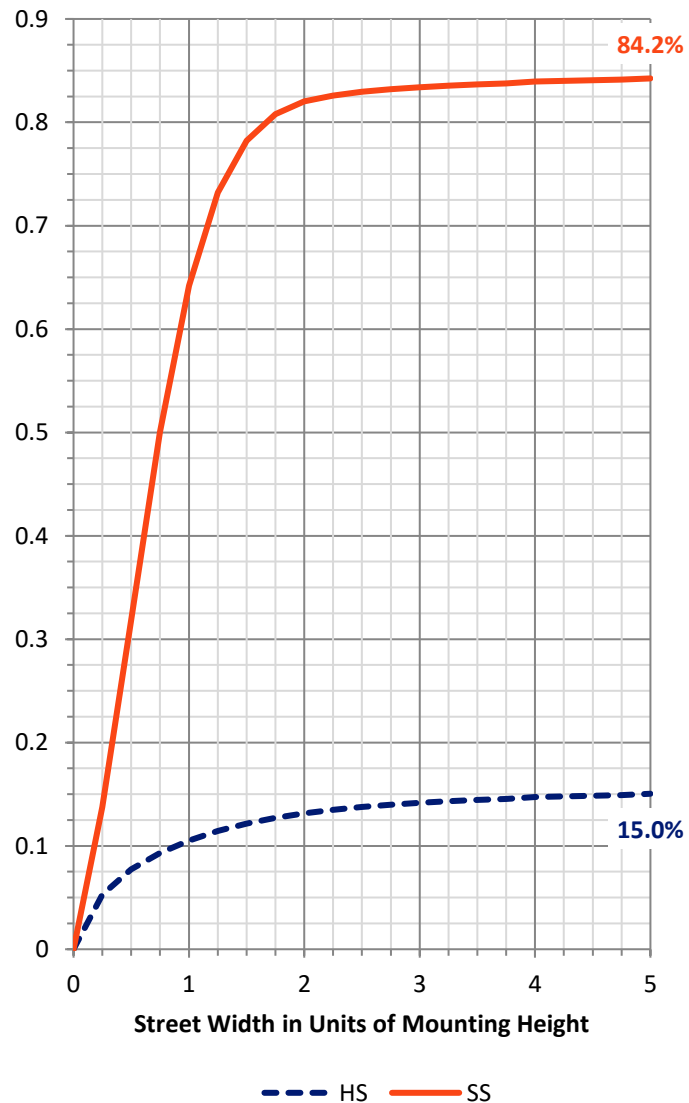
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1001.1	0.0	1001.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	5491.9	0.0	5491.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	6493.0	0.0	6493.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	1.0
10°-20°	254.8	3.9
20°-30°	522.9	8.1
30°-40°	879.7	13.5
40°-50°	1215.5	18.7
50°-60°	1517.3	23.4
60°-70°	1365.4	21.0
70°-80°	572.3	8.8
80°-90°	100.0	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°	6493.0	100.0
0°-180°	6493.0	100.0

Coefficient of Utilization



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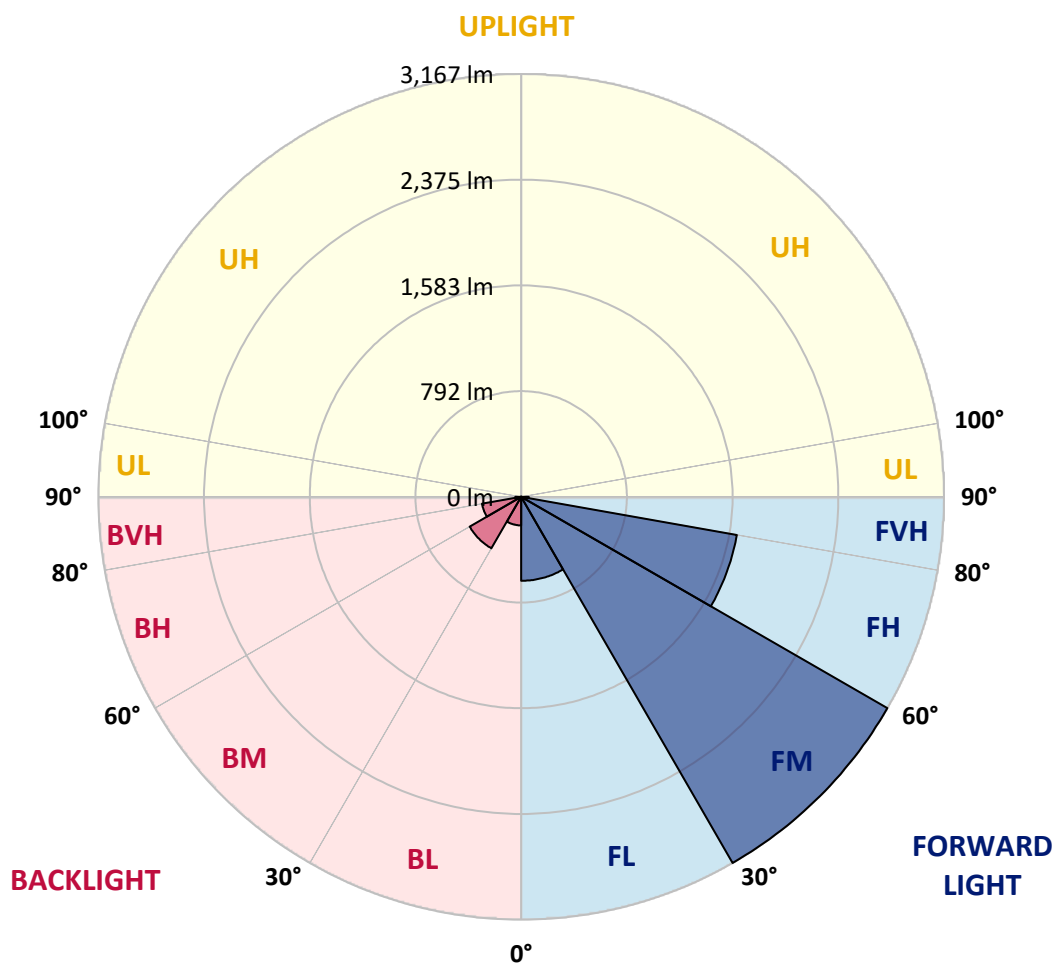
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	628.8	9.7			
FM	(30°-60°)	3166.8	48.8			
FH	(60°-80°)	1640.1	25.3			G1/1800
FVH	(80°-90°)	56.2	0.9			G1/100
BL	(0°-30°)	214.1	3.3	B1/500		
BM	(30°-60°)	445.6	6.9	B1/1000		
BH	(60°-80°)	297.6	4.6	B1/500		G1/500
BVH	(80°-90°)	43.8	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7
2.5°	670.0	662.6	664.4	652.1	637.1	617.4	595.6	595.3	595.6	593.4	585.5
5°	929.0	920.1	916.8	889.1	848.5	790.8	728.1	721.3	718.5	711.5	695.2
7.5°	1118.1	1113.1	1107.9	1087.0	1050.1	985.6	901.4	886.9	873.1	869.7	851.3
10°	1240.1	1238.8	1227.8	1222.2	1199.2	1143.3	1061.2	1047.4	1032.3	1027.1	1007.7
12.5°	1336.6	1336.3	1331.0	1332.6	1312.6	1272.0	1201.3	1188.7	1177.7	1161.7	1147.9
15°	1403.3	1403.6	1411.2	1419.9	1416.8	1389.4	1323.0	1317.5	1308.0	1296.9	1280.6
17.5°	1458.0	1459.5	1467.5	1483.2	1500.1	1497.9	1445.4	1440.7	1432.5	1417.4	1408.8
20°	1581.5	1587.3	1572.0	1572.0	1573.8	1582.1	1556.9	1553.2	1541.6	1533.6	1526.8
22.5°	1790.2	1796.9	1762.2	1726.9	1692.1	1666.9	1641.7	1646.4	1638.4	1632.8	1628.8
25°	2061.2	2066.5	2010.2	1950.6	1879.9	1787.7	1725.3	1722.6	1718.3	1714.9	1713.0
27.5°	2316.3	2318.5	2265.3	2178.0	2096.0	1963.5	1810.2	1806.8	1801.6	1795.1	1789.6
30°	2534.5	2533.9	2479.2	2395.9	2308.0	2161.4	1938.9	1928.5	1913.1	1895.6	1882.1
32.5°	2723.5	2722.6	2662.7	2576.3	2484.1	2357.5	2115.3	2093.8	2069.8	2035.7	2015.1
35°	2872.3	2871.7	2815.1	2725.1	2619.3	2542.2	2317.6	2291.1	2260.7	2214.9	2183.3
37.5°	2928.5	2928.5	2896.9	2835.4	2742.0	2689.1	2542.2	2510.2	2477.7	2425.7	2390.1
40°	2895.6	2896.2	2903.0	2891.6	2846.2	2805.6	2751.8	2732.8	2704.8	2658.1	2620.9
42.5°	2785.3	2788.7	2833.6	2888.6	2911.3	2904.9	2937.7	2929.1	2909.5	2873.5	2844.0
45°	2645.5	2655.9	2705.1	2809.0	2929.4	2990.6	3093.6	3094.5	3090.8	3071.4	3048.7
47.5°	2453.4	2468.1	2533.0	2673.4	2887.0	3073.9	3251.8	3260.1	3267.8	3255.2	3244.8
50°	2198.3	2215.8	2312.9	2499.2	2800.7	3160.2	3550.9	3588.3	3623.4	3619.1	3626.2
52.5°	1925.1	1945.7	2064.6	2272.1	2652.2	3180.2	3742.0	3803.2	3864.3	3914.4	3967.6
55°	1678.6	1667.6	1786.5	2005.0	2408.2	3090.2	3913.8	3987.6	4055.8	4117.3	4180.6
57.5°	1344.6	1362.7	1481.9	1698.0	2085.2	2836.0	4032.1	4140.0	4238.0	4339.8	4429.5
60°	982.8	1001.0	1130.3	1349.8	1734.6	2450.6	3941.8	4105.3	4262.3	4418.1	4539.8
62.5°	593.4	607.0	721.0	930.0	1337.5	1993.6	3539.2	3753.7	3984.8	4171.0	4357.6
65°	369.4	377.1	419.2	534.1	859.0	1488.4	2891.6	3125.5	3374.5	3610.8	3804.7
67.5°	302.4	305.2	312.9	337.4	471.7	970.5	2152.2	2359.3	2584.0	2812.7	3028.4
70°	272.0	270.1	270.1	271.7	302.4	521.8	1409.1	1544.0	1731.2	1930.0	2127.3
72.5°	245.6	243.7	240.3	235.7	246.8	318.4	728.4	830.1	965.0	1141.7	1330.7
75°	220.7	218.2	214.2	208.4	216.1	240.3	349.7	392.5	458.2	552.3	657.7
77.5°	194.8	191.8	188.1	183.8	193.6	186.9	205.0	220.4	245.6	275.7	315.3
80°	165.6	162.9	161.7	159.5	171.2	142.3	144.8	154.3	169.0	185.3	203.8
82.5°	129.7	129.7	134.6	135.5	148.4	102.3	108.2	116.5	124.2	132.8	141.4
85°	85.4	86.1	102.6	109.1	117.1	68.8	81.1	83.9	90.0	95.0	98.7
87.5°	26.7	28.9	62.7	69.5	67.3	39.0	49.8	51.0	55.3	58.7	61.8
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°	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7
2.5°	585.5	581.8	578.4	578.1	575.6	572.2	573.5	568.2	568.6	565.8	562.7
5°	688.4	686.0	673.7	670.3	661.1	655.2	654.3	642.0	640.5	633.4	625.7
7.5°	836.5	828.6	811.3	803.0	787.4	775.7	770.2	753.9	745.9	727.4	719.1
10°	991.7	981.6	960.4	948.7	933.7	914.9	904.8	881.1	871.9	855.0	834.7
12.5°	1135.6	1125.4	1103.6	1094.7	1074.7	1054.7	1043.7	1016.9	1005.0	977.9	961.9
15°	1268.6	1258.5	1239.4	1230.2	1210.3	1194.0	1179.2	1152.8	1138.6	1113.4	1092.5
17.5°	1397.7	1387.0	1370.4	1362.1	1342.7	1326.1	1310.1	1285.2	1270.8	1245.6	1226.8
20°	1517.6	1509.6	1497.6	1486.5	1467.2	1452.1	1433.1	1411.6	1390.7	1372.2	1354.4
22.5°	1622.1	1619.0	1606.1	1601.2	1584.6	1571.7	1555.1	1533.9	1518.8	1495.5	1478.9
25°	1712.1	1711.2	1705.1	1703.5	1691.8	1679.5	1675.9	1658.3	1644.5	1623.9	1606.7
27.5°	1789.6	1790.5	1789.0	1793.3	1790.2	1784.6	1785.0	1779.1	1771.1	1753.9	1738.9
30°	1875.6	1870.7	1873.5	1879.6	1881.5	1882.1	1892.2	1895.6	1895.0	1883.6	1876.2
32.5°	1997.3	1985.6	1974.9	1974.0	1980.1	1982.6	1999.8	2008.7	2016.4	2019.1	2020.4
35°	2152.5	2129.2	2106.7	2094.7	2084.3	2087.1	2099.4	2113.8	2130.7	2142.4	2156.2
37.5°	2348.0	2319.4	2279.8	2251.5	2244.4	2229.0	2237.0	2248.4	2265.0	2283.1	2307.1
40°	2584.9	2541.6	2497.0	2459.5	2439.3	2411.0	2410.7	2408.5	2418.7	2435.6	2469.4
42.5°	2813.0	2774.5	2727.2	2687.9	2661.5	2623.7	2616.0	2596.0	2600.6	2615.4	2648.2
45°	3026.6	2994.9	2966.0	2920.5	2898.1	2857.2	2844.3	2820.6	2807.4	2814.2	2847.1
47.5°	3233.4	3213.1	3183.0	3153.5	3136.3	3099.7	3083.1	3066.2	3049.3	3048.7	3083.1
50°	3636.6	3625.8	3590.2	3559.5	3567.8	3522.9	3525.7	3480.2	3500.8	3503.2	3575.4
52.5°	4015.5	4053.0	4079.5	4111.7	4132.6	4136.6	4150.5	4171.0	4195.9	4245.1	4312.1
55°	4232.5	4279.5	4306.9	4331.5	4372.0	4380.6	4403.7	4431.0	4452.9	4508.2	4565.0
57.5°	4490.4	4577.6	4620.0	4659.1	4713.8	4734.7	4773.1	4802.9	4831.2	4896.6	4965.5
60°	4649.2	4755.6	4841.9	4903.7	4972.2	5021.4	5079.5	5126.2	5192.6	5271.0	5373.6
62.5°	4522.9	4679.1	4793.7	4899.7	4992.8	5086.9	5170.2	5257.4	5358.2	5476.9	5636.1
65°	4019.8	4178.7	4375.1	4485.1	4608.4	4753.4	4880.0	5021.4	5158.8	5331.5	5566.9
67.5°	3236.2	3420.9	3641.5	3752.5	3894.1	4056.1	4198.1	4370.8	4531.2	4740.5	5031.6
70°	2332.6	2571.4	2757.0	2872.9	3038.2	3205.1	3342.2	3543.2	3675.9	3890.5	4191.3
72.5°	1477.0	1665.4	1892.8	2038.8	2185.7	2354.7	2494.9	2668.2	2792.1	2987.5	3260.1
75°	794.1	933.0	1132.8	1271.4	1428.8	1573.2	1737.3	1853.5	1945.1	2099.7	2320.9
77.5°	372.2	456.7	557.8	664.4	771.1	882.3	990.5	1084.6	1123.9	1212.4	1343.0
80°	225.9	253.2	282.7	315.6	360.2	396.1	443.8	478.2	480.7	508.6	548.6
82.5°	150.9	161.0	170.0	178.2	189.6	198.5	208.7	220.7	225.6	232.0	244.9
85°	103.0	107.9	109.7	114.9	113.7	116.8	120.8	124.8	126.9	126.6	132.5
87.5°	63.3	65.8	67.0	68.2	67.3	66.1	67.9	70.1	70.7	68.8	69.5
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°	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7
2.5°	563.3	560.6	557.8	556.0	555.3	539.1	532.0	527.4	517.5	509.5	503.1
5°	621.4	615.6	611.0	605.4	602.4	561.2	546.1	535.7	518.5	508.3	499.1
7.5°	714.8	698.6	689.0	678.3	669.1	594.7	569.8	553.5	529.5	516.0	505.6
10°	820.9	804.0	788.9	772.3	757.9	639.2	603.0	577.8	546.1	528.6	514.8
12.5°	939.2	922.6	903.5	882.3	863.9	695.8	645.4	609.4	566.1	542.7	523.4
15°	1079.0	1049.8	1026.8	1002.2	980.7	763.4	694.9	645.1	587.3	555.6	529.8
17.5°	1209.0	1178.3	1146.9	1125.4	1100.5	839.3	744.7	681.3	604.8	563.9	531.1
20°	1336.0	1302.5	1275.4	1246.5	1220.4	918.0	797.8	713.3	616.2	564.3	523.4
22.5°	1447.8	1426.9	1396.8	1365.5	1339.0	996.7	847.6	740.4	620.5	557.2	509.9
25°	1575.1	1552.9	1516.0	1489.6	1460.1	1076.9	896.5	761.2	618.0	544.0	489.0
27.5°	1710.9	1686.3	1648.5	1620.8	1585.2	1160.2	941.3	776.3	608.8	522.5	461.0
30°	1852.6	1830.1	1792.9	1765.0	1729.0	1248.4	991.4	786.4	590.4	492.6	428.4
32.5°	2004.7	1985.9	1949.1	1919.9	1881.5	1343.9	1038.2	789.5	562.4	457.3	394.0
35°	2149.1	2136.2	2105.2	2077.8	2037.9	1434.3	1087.6	788.0	529.2	418.6	362.6
37.5°	2311.7	2304.0	2288.7	2253.9	2205.1	1556.9	1146.9	781.5	488.6	380.2	338.7
40°	2485.0	2485.7	2469.1	2445.4	2399.9	1705.7	1217.6	768.9	444.4	346.4	316.9
42.5°	2668.5	2678.0	2670.1	2653.2	2609.5	1855.6	1302.1	753.6	401.4	313.5	295.3
45°	2878.7	2890.4	2902.7	2877.8	2835.4	2053.6	1413.4	733.6	355.0	286.1	280.6
47.5°	3121.2	3139.7	3150.7	3151.0	3108.6	2298.8	1594.1	721.6	313.8	267.7	273.5
50°	3632.9	3638.8	3664.9	3710.4	3677.8	2866.4	1909.7	714.2	285.8	256.3	268.3
52.5°	4370.2	4434.4	4479.6	4476.5	4432.3	3226.9	2083.7	676.1	269.2	252.0	265.8
55°	4670.4	4750.7	4834.3	4856.4	4822.0	3534.6	2248.1	638.0	261.2	255.1	266.8
57.5°	5070.6	5205.8	5320.4	5368.7	5318.9	3928.3	2464.5	618.0	258.8	263.4	272.6
60°	5538.0	5705.2	5855.8	5942.5	5942.5	4380.6	2688.8	609.7	255.4	275.7	282.4
62.5°	5838.3	6083.8	6311.3	6438.2	6434.5	4695.6	2788.4	581.5	247.7	284.3	296.0
65°	5839.5	6131.5	6421.3	6563.9	6571.3	4656.9	2624.0	513.5	233.6	285.5	309.5
67.5°	5352.7	5664.0	6001.8	6161.3	6198.2	4286.9	2271.5	422.3	210.5	273.2	314.4
70°	4520.8	4824.7	5169.5	5326.3	5391.7	3654.4	1829.5	325.5	181.0	246.2	304.3
72.5°	3561.6	3859.7	4099.7	4214.4	4265.4	2793.3	1332.3	245.9	148.4	207.4	276.9
75°	2521.6	2745.4	2872.9	2898.4	2906.4	1683.8	809.5	182.9	122.3	161.3	233.9
77.5°	1423.2	1519.1	1508.7	1520.0	1425.4	650.0	352.5	130.9	100.8	122.6	181.3
80°	555.6	572.9	538.1	527.4	483.7	241.9	155.5	91.3	80.5	92.8	126.9
82.5°	244.9	252.9	245.6	247.4	236.6	124.8	93.1	66.1	61.5	67.9	84.2
85°	134.9	137.4	136.8	140.8	134.9	49.8	44.3	40.6	43.0	46.1	54.1
87.5°	65.8	66.4	64.2	67.6	65.5	25.2	21.8	23.0	25.2	25.8	25.8
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°	527.7	527.7	527.7	527.7	527.7	527.7
2.5°	498.5	496.0	496.3	495.7	494.5	494.5
5°	494.2	491.7	491.7	491.1	489.6	489.9
7.5°	498.5	494.5	493.0	490.8	488.6	488.6
10°	503.4	496.3	492.0	488.3	485.6	485.6
12.5°	507.1	496.0	489.0	484.0	481.3	481.3
15°	508.3	493.9	484.0	478.2	475.7	475.4
17.5°	504.3	485.6	473.6	466.8	463.8	462.8
20°	492.0	470.5	456.1	448.4	444.1	442.6
22.5°	473.6	449.0	432.1	424.1	418.6	417.7
25°	447.8	421.3	404.7	397.1	394.0	393.1
27.5°	417.7	393.1	378.9	374.0	371.3	370.9
30°	389.1	368.2	357.7	354.0	350.7	350.0
32.5°	362.3	349.1	345.1	339.9	331.9	331.0
35°	343.3	342.1	339.3	327.6	317.8	315.0
37.5°	331.6	343.0	328.8	305.8	298.7	298.1
40°	324.8	333.4	309.2	301.2	301.8	301.2
42.5°	309.5	318.4	309.8	306.1	308.6	309.2
45°	294.1	303.9	314.4	311.9	317.8	317.8
47.5°	285.5	300.3	314.1	314.1	322.7	325.8
50°	275.7	297.2	309.2	313.5	320.2	317.8
52.5°	275.1	292.0	302.1	309.8	312.9	310.1
55°	276.0	287.7	295.0	303.6	307.3	307.6
57.5°	277.2	285.2	290.1	294.1	305.2	305.2
60°	280.3	283.0	285.8	288.0	302.4	302.7
62.5°	285.2	280.9	280.3	282.4	300.9	299.6
65°	292.9	277.8	273.2	275.4	299.3	295.6
67.5°	303.3	273.2	264.3	265.8	298.1	290.1
70°	312.9	265.8	253.2	251.7	286.4	272.3
72.5°	313.8	257.2	237.9	233.3	248.9	235.4
75°	298.4	251.4	221.0	207.4	205.6	203.8
77.5°	268.9	248.0	201.3	180.1	176.4	177.6
80°	225.0	235.4	177.6	152.4	172.4	170.3
82.5°	168.1	207.8	150.9	134.9	134.6	118.9
85°	93.4	162.0	122.9	101.1	70.4	68.2
87.5°	26.1	90.0	86.1	57.2	39.0	40.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)