

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: P193129

Luminaire Tested: **GLEON-AF-01-LED-E1-T2R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193129
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4137.6 lumens
Efficiency: N/A
Efficacy: 121.7 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): 34
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



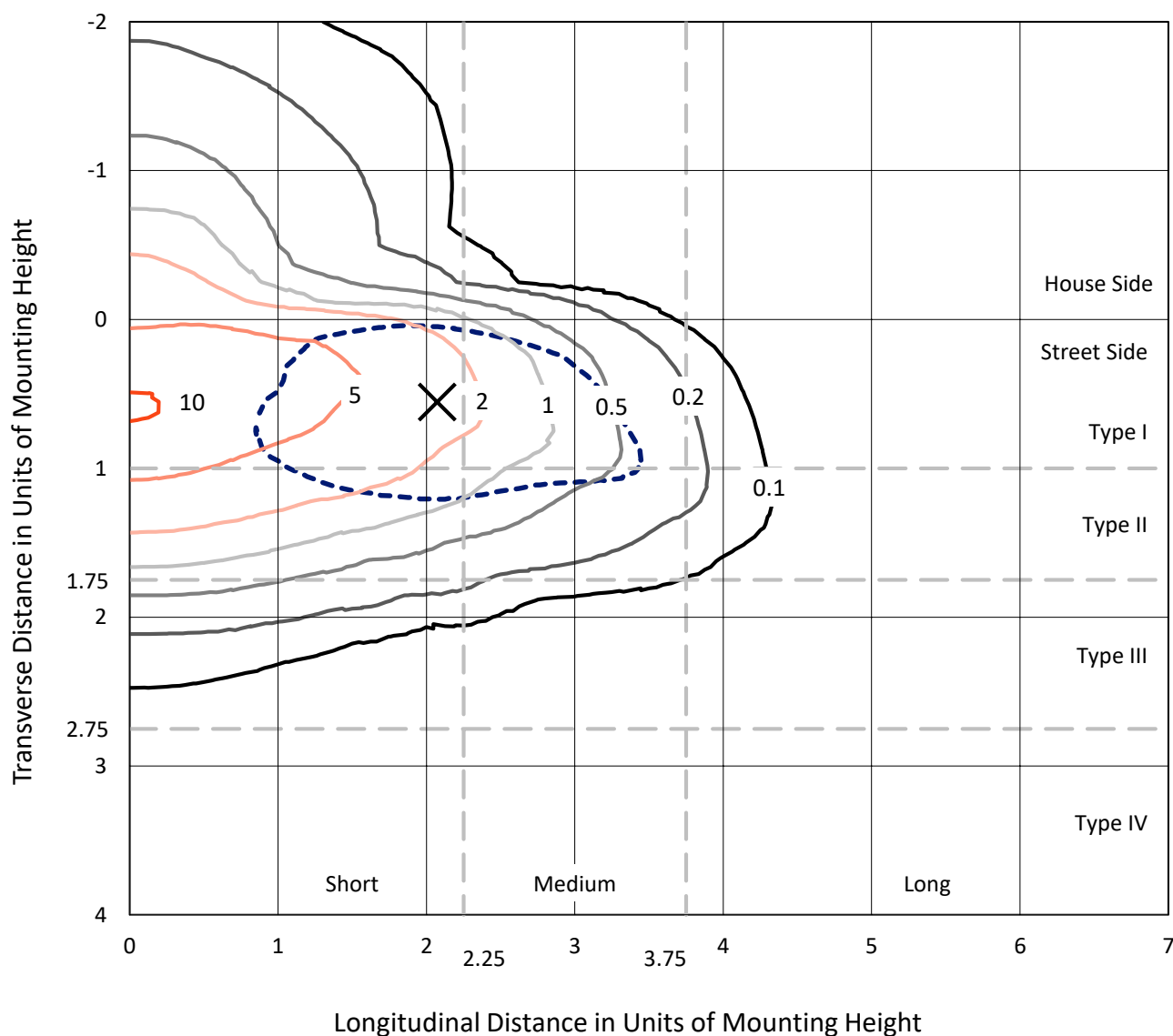
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

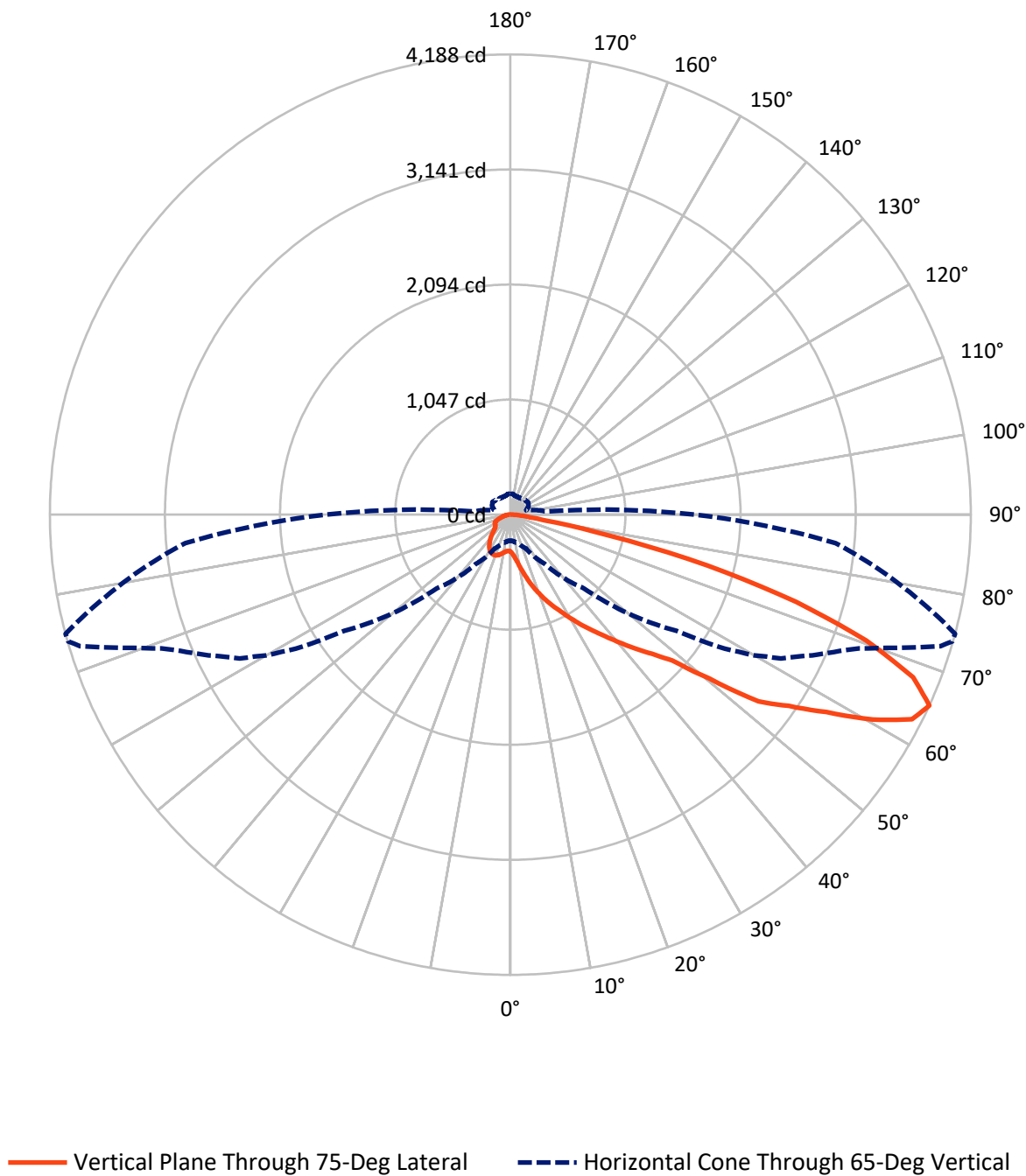


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	637.9	0.0	637.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	3499.7	0.0	3499.7
	% Fixture	84.6	0.0	84.6
Total	Lumens	4137.6	0.0	4137.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.6	1.0
10°-20°	162.4	3.9
20°-30°	333.2	8.1
30°-40°	560.6	13.5
40°-50°	774.5	18.7
50°-60°	966.9	23.4
60°-70°	870.1	21.0
70°-80°	364.7	8.8
80°-90°	63.7	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°	4137.6	100.0
0°-180°	4137.6	100.0

Coefficient of Utilization



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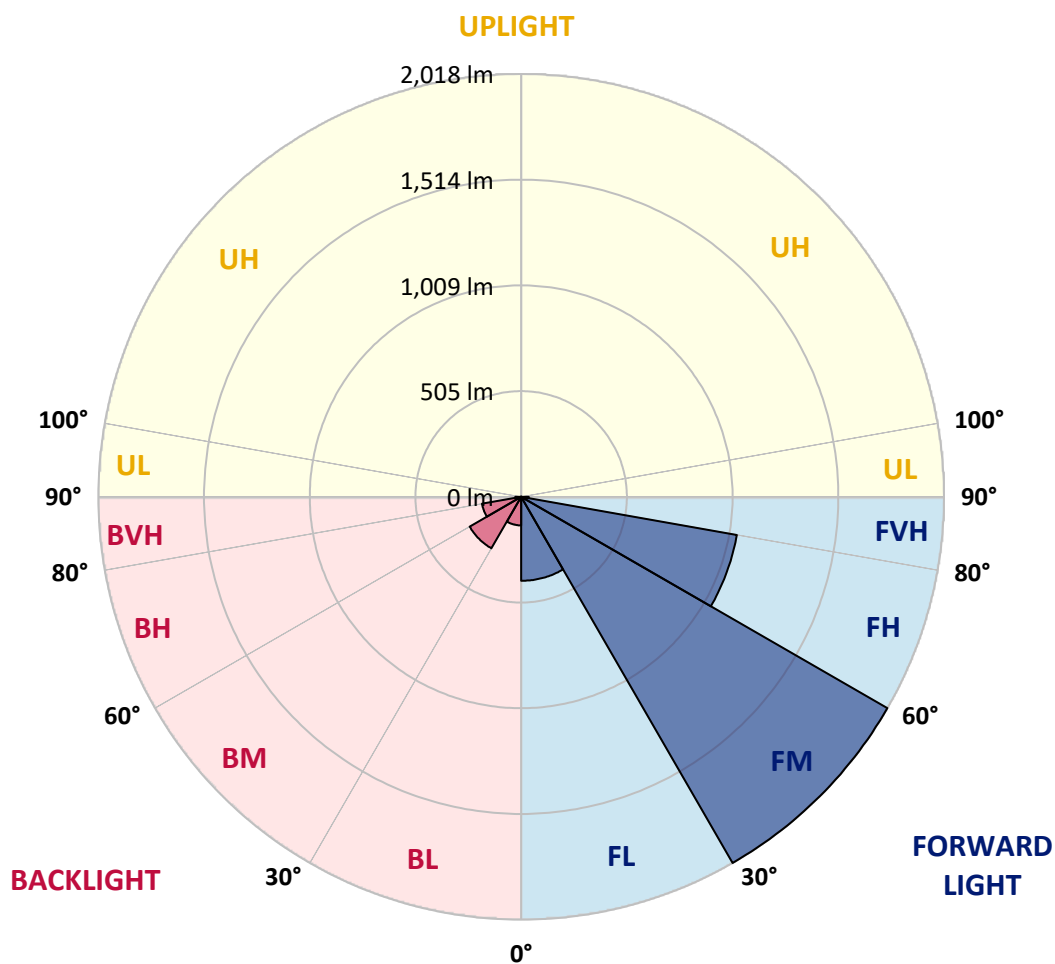
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	400.7	9.7			
FM	(30°-60°)	2018.0	48.8			
FH	(60°-80°)	1045.2	25.3			G1/1800
FVH	(80°-90°)	35.8	0.9			G1/100
BL	(0°-30°)	136.4	3.3	B1/500		
BM	(30°-60°)	283.9	6.9	B1/1000		
BH	(60°-80°)	189.7	4.6	B1/500		G1/500
BVH	(80°-90°)	27.9	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°	336.3	336.3	336.3	336.3	336.3	336.3	336.3	336.3	336.3	336.3	336.3
2.5°	426.9	422.3	423.4	415.6	406.0	393.5	379.5	379.3	379.5	378.1	373.1
5°	592.0	586.4	584.2	566.6	540.8	503.9	464.0	459.7	457.9	453.4	443.0
7.5°	712.5	709.3	706.1	692.7	669.2	628.0	574.3	565.2	556.3	554.3	542.5
10°	790.3	789.4	782.4	778.9	764.2	728.5	676.2	667.5	657.8	654.5	642.1
12.5°	851.6	851.5	848.2	849.2	836.5	810.6	765.6	757.5	750.5	740.3	731.5
15°	894.2	894.4	899.3	904.7	902.8	885.4	843.2	839.5	833.5	826.4	816.0
17.5°	929.0	930.1	935.1	945.1	955.9	954.5	921.0	918.1	912.9	903.2	897.8
20°	1007.8	1011.5	1001.7	1001.7	1002.9	1008.3	992.2	989.8	982.4	977.3	973.0
22.5°	1140.7	1145.1	1122.9	1100.5	1078.3	1062.2	1046.1	1049.1	1044.1	1040.4	1038.0
25°	1313.6	1316.9	1281.1	1243.1	1198.0	1139.2	1099.4	1097.7	1095.0	1092.8	1091.6
27.5°	1476.1	1477.4	1443.6	1387.9	1335.7	1251.2	1153.6	1151.4	1148.0	1144.0	1140.4
30°	1615.1	1614.8	1579.9	1526.8	1470.7	1377.3	1235.6	1228.9	1219.2	1208.0	1199.3
32.5°	1735.6	1734.9	1696.8	1641.7	1582.9	1502.4	1348.0	1334.3	1319.0	1297.2	1284.2
35°	1830.3	1830.0	1793.9	1736.5	1669.2	1620.0	1476.8	1460.0	1440.6	1411.4	1391.3
37.5°	1866.1	1866.1	1846.1	1806.8	1747.3	1713.6	1620.0	1599.7	1578.9	1545.8	1523.1
40°	1845.3	1845.6	1850.0	1842.6	1813.7	1787.8	1753.6	1741.5	1723.6	1693.8	1670.1
42.5°	1774.9	1777.1	1805.7	1840.7	1855.2	1851.1	1872.0	1866.5	1854.0	1831.1	1812.3
45°	1685.9	1692.4	1723.8	1790.0	1866.8	1905.7	1971.4	1971.9	1969.6	1957.3	1942.7
47.5°	1563.4	1572.8	1614.1	1703.7	1839.7	1958.8	2072.2	2077.4	2082.4	2074.4	2067.7
50°	1400.9	1412.0	1473.9	1592.6	1784.7	2013.8	2262.8	2286.7	2308.9	2306.3	2310.8
52.5°	1226.8	1239.9	1315.7	1447.9	1690.1	2026.5	2384.6	2423.6	2462.4	2494.5	2528.4
55°	1069.6	1062.6	1138.5	1277.7	1534.6	1969.2	2494.1	2541.1	2584.5	2623.8	2664.1
57.5°	856.8	868.4	944.3	1082.0	1328.8	1807.2	2569.4	2638.2	2700.7	2765.5	2822.7
60°	626.3	637.8	720.3	860.2	1105.3	1561.7	2511.9	2616.1	2716.1	2815.4	2892.9
62.5°	378.1	386.8	459.4	592.6	852.3	1270.4	2255.3	2392.0	2539.3	2658.0	2776.9
65°	235.5	240.3	267.1	340.4	547.4	948.5	1842.6	1991.7	2150.3	2301.0	2424.6
67.5°	192.8	194.5	199.4	215.0	300.6	618.5	1371.5	1503.5	1646.6	1792.4	1929.8
70°	173.2	172.2	172.2	173.1	192.8	332.5	897.9	983.9	1103.2	1229.9	1355.6
72.5°	156.5	155.2	153.2	150.2	157.3	202.9	464.2	529.0	614.9	727.5	848.0
75°	140.6	139.1	136.5	132.8	137.6	153.2	222.9	250.1	292.0	352.0	419.1
77.5°	124.1	122.2	119.8	117.1	123.4	119.1	130.7	140.4	156.5	175.7	200.9
80°	105.6	103.8	103.0	101.6	109.0	90.6	92.3	98.4	107.7	118.1	129.8
82.5°	82.6	82.6	85.8	86.4	94.6	65.2	69.0	74.2	79.1	84.5	90.1
85°	54.4	54.8	65.4	69.5	74.7	43.9	51.7	53.4	57.4	60.5	62.9
87.5°	17.1	18.3	40.0	44.2	42.9	24.9	31.6	32.6	35.3	37.3	39.4
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°	336.3	336.3	336.3	336.3	336.3	336.3	336.3	336.3	336.3	336.3	336.3
2.5°	373.1	370.7	368.5	368.4	366.8	364.7	365.5	362.0	362.3	360.5	358.6
5°	438.6	437.1	429.3	427.1	421.3	417.6	417.0	409.0	408.1	403.6	398.7
7.5°	533.0	527.9	517.1	511.8	501.7	494.3	490.8	480.4	475.3	463.6	458.3
10°	631.9	625.5	612.0	604.5	595.0	583.0	576.6	561.5	555.6	544.8	531.9
12.5°	723.7	717.2	703.3	697.6	684.8	672.2	665.1	648.0	640.4	623.3	613.0
15°	808.4	802.0	789.8	783.9	771.3	760.9	751.4	734.7	725.6	709.5	696.2
17.5°	890.7	883.8	873.3	867.9	855.6	845.0	834.8	819.0	809.8	793.8	781.9
20°	967.1	962.0	954.4	947.3	934.9	925.3	913.2	899.5	886.2	874.4	863.0
22.5°	1033.7	1031.7	1023.4	1020.4	1009.8	1001.6	991.0	977.5	967.8	953.0	942.4
25°	1091.1	1090.4	1086.6	1085.6	1078.2	1070.3	1067.9	1056.7	1047.9	1034.8	1023.9
27.5°	1140.4	1141.0	1140.0	1142.8	1140.7	1137.3	1137.5	1133.8	1128.6	1117.7	1108.1
30°	1195.2	1192.1	1193.8	1197.8	1198.9	1199.3	1205.7	1208.0	1207.6	1200.3	1195.7
32.5°	1272.8	1265.3	1258.4	1257.9	1261.8	1263.4	1274.4	1280.1	1284.9	1286.6	1287.5
35°	1371.6	1356.8	1342.5	1334.8	1328.1	1330.0	1337.8	1347.0	1357.8	1365.2	1374.1
37.5°	1496.2	1478.1	1452.8	1434.8	1430.2	1420.5	1425.5	1432.8	1443.4	1454.9	1470.2
40°	1647.2	1619.7	1591.3	1567.4	1554.4	1536.4	1536.1	1534.9	1541.3	1552.0	1573.6
42.5°	1792.5	1768.1	1737.9	1712.8	1696.0	1671.8	1667.0	1654.3	1657.3	1666.6	1687.6
45°	1928.7	1908.5	1890.0	1861.1	1846.8	1820.8	1812.5	1797.5	1789.0	1793.4	1814.2
47.5°	2060.5	2047.5	2028.4	2009.5	1998.6	1975.3	1964.7	1953.9	1943.1	1942.7	1964.7
50°	2317.4	2310.5	2287.9	2268.2	2273.5	2245.0	2246.7	2217.8	2230.8	2232.3	2278.5
52.5°	2558.9	2582.8	2599.6	2620.1	2633.4	2636.1	2644.8	2658.0	2673.9	2705.2	2747.9
55°	2697.2	2727.1	2744.6	2760.2	2786.1	2791.6	2806.3	2823.7	2837.6	2872.9	2909.0
57.5°	2861.5	2917.1	2944.1	2969.0	3003.9	3017.2	3041.7	3060.7	3078.7	3120.3	3164.2
60°	2962.7	3030.6	3085.5	3125.0	3168.5	3199.8	3237.0	3266.7	3308.9	3358.9	3424.3
62.5°	2882.3	2981.6	3054.8	3122.3	3181.6	3241.6	3294.7	3350.3	3414.6	3490.2	3591.6
65°	2561.6	2662.8	2788.1	2858.1	2936.7	3029.1	3109.8	3199.8	3287.4	3397.5	3547.5
67.5°	2062.3	2179.9	2320.5	2391.2	2481.5	2584.7	2675.2	2785.2	2887.5	3020.9	3206.3
70°	1486.5	1638.7	1756.9	1830.7	1936.1	2042.5	2129.8	2257.9	2342.5	2479.2	2671.0
72.5°	941.3	1061.2	1206.2	1299.2	1392.8	1500.5	1589.8	1700.3	1779.3	1903.9	2077.4
75°	506.1	594.6	721.8	810.1	910.4	1002.6	1107.2	1181.1	1239.5	1338.0	1479.1
77.5°	237.2	291.0	355.4	423.4	491.3	562.2	631.2	691.2	716.2	772.6	855.8
80°	143.9	161.3	180.2	201.1	229.6	252.4	282.8	304.8	306.3	324.2	349.6
82.5°	96.1	102.6	108.2	113.6	120.8	126.5	133.0	140.6	143.7	147.8	156.1
85°	65.5	68.8	69.9	73.2	72.4	74.4	76.9	79.5	80.9	80.7	84.4
87.5°	40.3	41.9	42.7	43.4	42.9	42.1	43.2	44.7	45.1	43.9	44.2
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°	336.3	336.3	336.3	336.3	336.3	336.3	336.3	336.3	336.3	336.3	336.3
2.5°	359.0	357.2	355.4	354.3	353.9	343.5	339.0	336.1	329.9	324.7	320.5
5°	395.9	392.2	389.3	385.8	383.8	357.6	348.0	341.3	330.4	324.0	318.1
7.5°	455.5	445.1	439.1	432.2	426.3	378.9	363.1	352.7	337.4	328.9	322.2
10°	523.2	512.3	502.7	492.1	482.9	407.3	384.3	368.2	348.0	336.8	328.0
12.5°	598.5	588.0	575.8	562.2	550.5	443.4	411.3	388.3	360.8	345.8	333.6
15°	687.6	669.0	654.4	638.6	625.0	486.4	442.8	411.1	374.2	354.1	337.6
17.5°	770.5	750.8	730.8	717.2	701.3	534.9	474.5	434.2	385.4	359.4	338.3
20°	851.3	830.0	812.8	794.4	777.7	585.0	508.4	454.5	392.7	359.6	333.6
22.5°	922.5	909.2	890.1	870.1	853.4	635.2	540.2	471.8	395.4	355.1	324.9
25°	1003.6	989.6	966.1	949.3	930.5	686.2	571.3	485.1	393.9	346.7	311.6
27.5°	1090.3	1074.6	1050.5	1032.8	1010.2	739.3	599.9	494.7	388.0	332.9	293.8
30°	1180.5	1166.3	1142.6	1124.8	1101.8	795.5	631.7	501.2	376.2	313.9	273.0
32.5°	1277.5	1265.5	1242.1	1223.4	1198.9	856.4	661.6	503.1	358.4	291.4	251.1
35°	1369.6	1361.3	1341.4	1324.1	1298.6	914.0	693.1	502.1	337.3	266.7	231.1
37.5°	1473.2	1468.2	1458.4	1436.3	1405.2	992.2	730.8	498.0	311.4	242.2	215.8
40°	1583.6	1583.9	1573.5	1558.4	1529.3	1086.9	776.0	490.0	283.2	220.7	201.9
42.5°	1700.5	1706.6	1701.5	1690.7	1662.9	1182.5	829.9	480.2	255.7	199.7	188.3
45°	1834.5	1841.9	1849.8	1833.9	1806.8	1308.6	900.8	467.5	226.1	182.4	178.8
47.5°	1988.9	2000.7	2007.7	2007.9	1981.0	1464.9	1015.9	459.9	200.0	170.6	174.3
50°	2315.1	2318.8	2335.4	2364.4	2343.6	1826.6	1216.9	455.2	182.1	163.4	171.0
52.5°	2784.9	2825.8	2854.6	2852.6	2824.5	2056.4	1327.8	430.8	171.5	160.6	169.4
55°	2976.2	3027.3	3080.6	3094.8	3072.8	2252.4	1432.6	406.6	166.5	162.6	170.0
57.5°	3231.3	3317.4	3390.5	3421.2	3389.4	2503.2	1570.5	393.9	164.9	167.8	173.7
60°	3529.1	3635.6	3731.6	3786.8	3786.8	2791.6	1713.4	388.5	162.8	175.7	180.0
62.5°	3720.4	3876.9	4021.9	4102.6	4100.4	2992.3	1776.9	370.5	157.9	181.2	188.6
65°	3721.3	3907.2	4092.0	4182.8	4187.5	2967.6	1672.1	327.2	148.8	181.9	197.2
67.5°	3411.0	3609.4	3824.6	3926.2	3949.7	2731.8	1447.4	269.1	134.2	174.2	200.4
70°	2880.8	3074.5	3294.2	3394.1	3435.8	2328.8	1165.9	207.4	115.4	156.9	193.9
72.5°	2269.7	2459.7	2612.5	2685.6	2718.2	1780.1	849.0	156.7	94.6	132.2	176.5
75°	1606.8	1749.5	1830.7	1847.0	1852.1	1073.0	515.8	116.6	77.9	102.8	149.0
77.5°	907.0	968.0	961.4	968.7	908.3	414.2	224.6	83.5	64.3	78.1	115.6
80°	354.1	365.0	343.0	336.1	308.2	154.2	99.1	58.1	51.4	59.1	80.9
82.5°	156.1	161.1	156.5	157.7	150.8	79.5	59.3	42.1	39.2	43.2	53.6
85°	86.0	87.5	87.2	89.7	86.0	31.6	28.2	25.9	27.5	29.4	34.4
87.5°	41.9	42.3	41.0	43.0	41.7	16.1	13.8	14.6	16.1	16.5	16.5
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):

	135°	145°	155°	165°	175°	180°
0°	336.3	336.3	336.3	336.3	336.3	336.3
2.5°	317.6	316.1	316.3	315.9	315.1	315.1
5°	314.8	313.3	313.3	312.9	311.9	312.2
7.5°	317.6	315.1	314.1	312.8	311.4	311.4
10°	320.7	316.3	313.6	311.2	309.4	309.4
12.5°	323.2	316.1	311.6	308.4	306.7	306.7
15°	324.0	314.6	308.4	304.8	303.2	302.9
17.5°	321.3	309.4	301.8	297.5	295.5	294.9
20°	313.6	299.8	290.6	285.7	283.0	282.0
22.5°	301.8	286.2	275.4	270.3	266.7	266.1
25°	285.3	268.4	258.0	253.1	251.1	250.5
27.5°	266.1	250.5	241.5	238.3	236.5	236.4
30°	247.9	234.6	228.0	225.6	223.4	223.1
32.5°	230.9	222.5	219.9	216.6	211.5	210.9
35°	218.7	218.0	216.3	208.8	202.4	200.7
37.5°	211.3	218.5	209.6	194.9	190.3	190.0
40°	207.0	212.5	197.0	192.0	192.3	192.0
42.5°	197.2	202.9	197.4	195.0	196.6	197.0
45°	187.4	193.7	200.4	198.8	202.4	202.4
47.5°	181.9	191.3	200.2	200.2	205.6	207.6
50°	175.7	189.3	197.0	199.7	204.1	202.4
52.5°	175.3	186.1	192.6	197.4	199.4	197.6
55°	175.9	183.3	188.0	193.5	195.8	196.0
57.5°	176.7	181.7	184.8	187.4	194.5	194.5
60°	178.6	180.4	182.1	183.5	192.8	193.0
62.5°	181.7	178.9	178.6	180.0	191.7	190.9
65°	186.7	177.0	174.2	175.5	190.7	188.4
67.5°	193.3	174.2	168.5	169.4	190.0	184.8
70°	199.4	169.4	161.3	160.4	182.6	173.5
72.5°	200.0	163.9	151.6	148.6	158.7	150.0
75°	190.1	160.2	140.8	132.2	131.0	129.8
77.5°	171.3	158.1	128.3	114.7	112.4	113.2
80°	143.3	150.0	113.2	97.1	110.0	108.5
82.5°	107.1	132.4	96.1	86.0	85.8	75.8
85°	59.5	103.2	78.3	64.5	44.8	43.4
87.5°	16.6	57.4	54.8	36.4	24.9	25.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

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