

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: P193029

Luminaire Tested: **GLEON-AF-01-LED-E1-SLL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
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-SLL-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5298 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

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

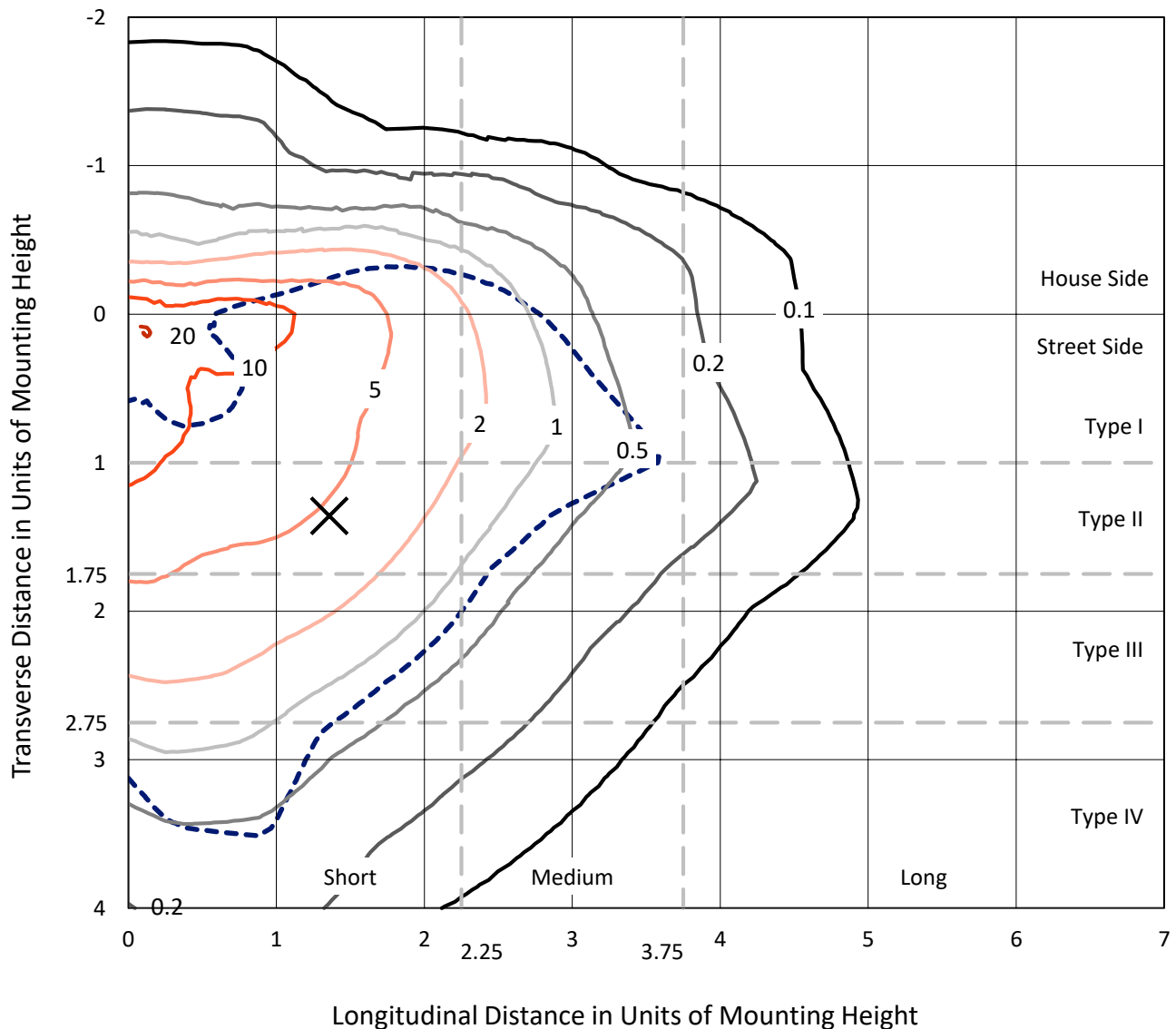


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

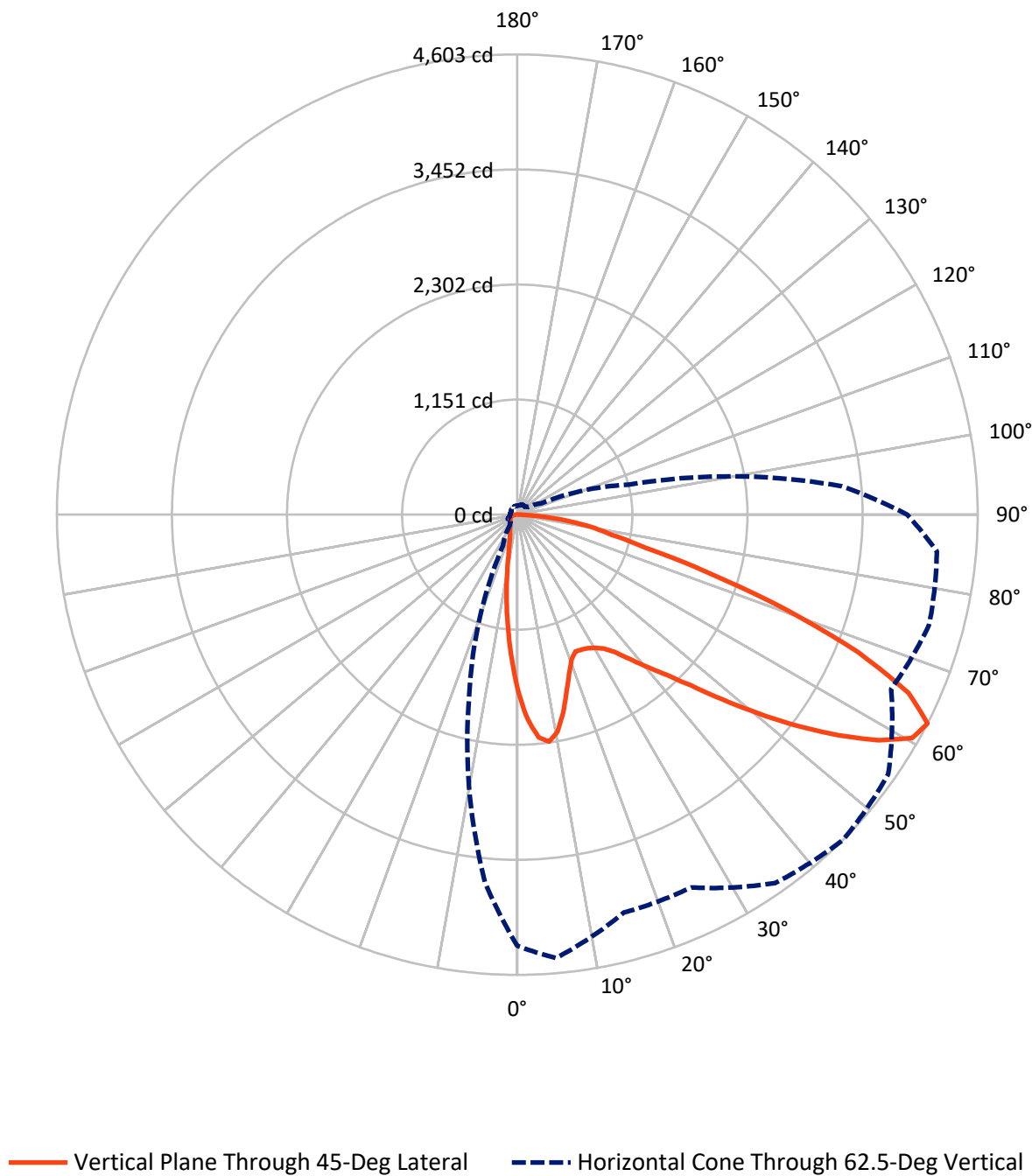


Based on 10 foot mounting height. Maximum calculated value = 21.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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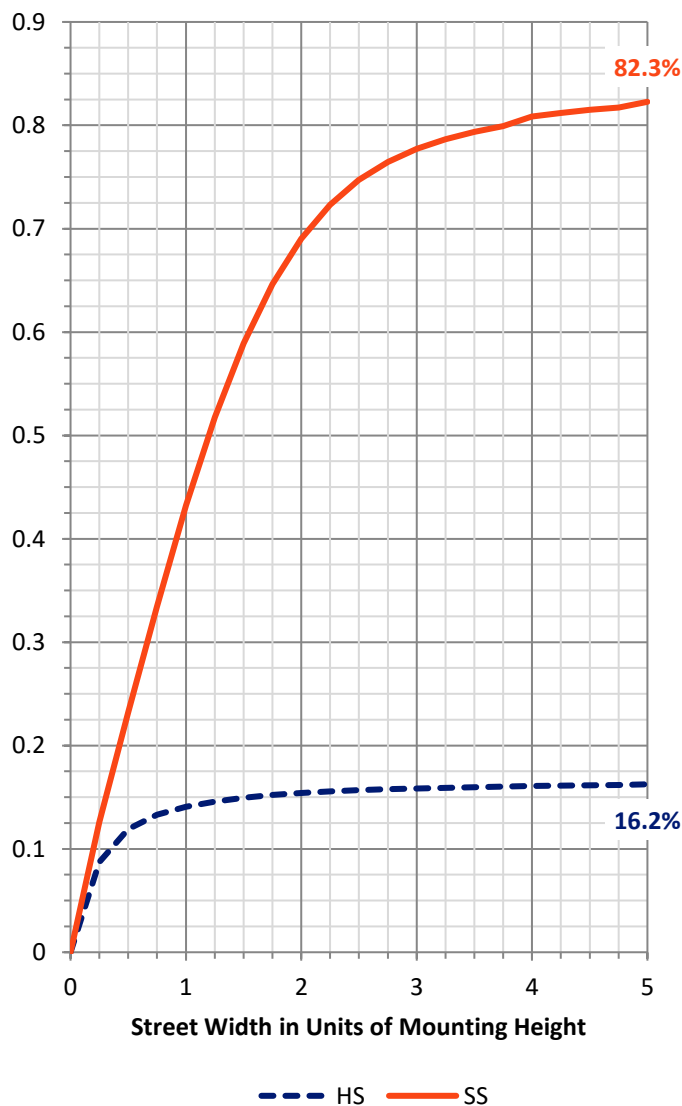
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	876.7	0.0	876.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4421.2	0.0	4421.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	5298.0	0.0	5298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	2.5
10°-20°	238.9	4.5
20°-30°	348.4	6.6
30°-40°	536.5	10.1
40°-50°	789.6	14.9
50°-60°	1158.2	21.9
60°-70°	1294.7	24.4
70°-80°	633.9	12.0
80°-90°	167.4	3.2
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°	5298.0	100.0
0°-180°	5298.0	100.0

Coefficient of Utilization



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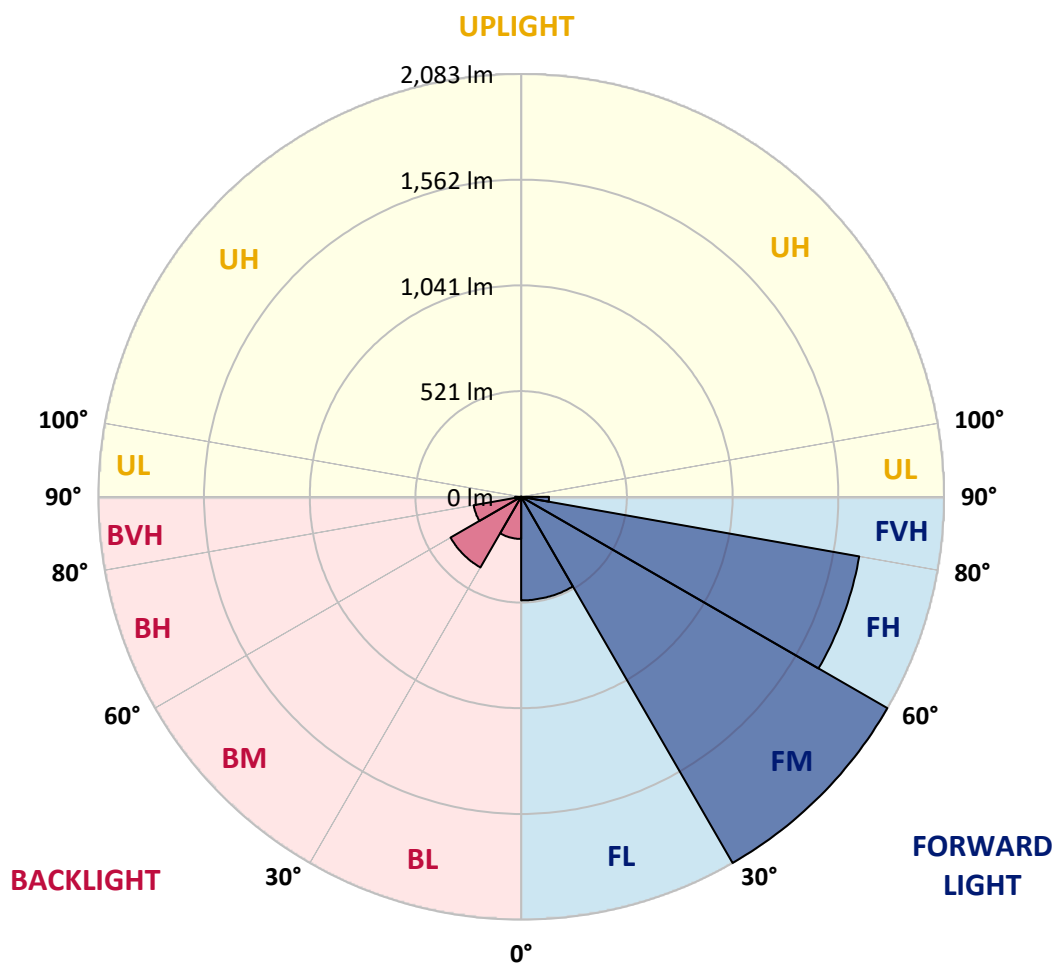
CATALOG NUMBER: GLEON-AF-01-LED-E1-SLL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	510.2	9.6			
FM	(30°-60°)	2082.7	39.3			
FH	(60°-80°)	1690.9	31.9			G1/1800
FVH	(80°-90°)	137.4	2.6			G2/225
BL	(0°-30°)	207.4	3.9	B1/500		
BM	(30°-60°)	401.7	7.6	B1/1000		
BH	(60°-80°)	237.7	4.5	B1/500		G1/500
BVH	(80°-90°)	29.9	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0
2.5°	1859.8	1889.5	1947.5	1990.9	2043.5	2055.8	2072.7	2056.1	2026.8	1987.7	1974.9
5°	1748.9	1812.4	1953.0	2076.8	2187.0	2238.1	2252.4	2210.2	2124.9	2012.8	1944.3
7.5°	1570.9	1661.2	1851.7	2034.0	2196.2	2292.0	2289.7	2191.5	2034.6	1852.0	1742.1
10°	1417.4	1520.6	1739.0	1942.8	2114.9	2207.9	2172.1	2046.5	1859.3	1648.9	1529.8
12.5°	1331.6	1432.6	1654.1	1858.9	2002.8	2034.9	2007.5	1884.6	1708.2	1495.5	1391.2
15°	1316.7	1427.7	1620.5	1787.1	1867.7	1839.7	1807.1	1752.1	1627.4	1446.0	1337.4
17.5°	1381.0	1503.4	1659.2	1736.9	1723.2	1674.6	1665.3	1671.4	1641.4	1501.0	1375.8
20°	1504.5	1651.4	1751.5	1713.3	1613.4	1546.4	1548.7	1642.2	1731.1	1640.5	1497.5
22.5°	1677.7	1845.3	1884.6	1725.9	1567.1	1487.7	1506.9	1658.3	1874.2	1844.4	1661.9
25°	1902.1	2054.7	2026.4	1771.3	1571.8	1494.8	1510.4	1713.6	2043.0	2048.3	1865.0
27.5°	2119.3	2260.9	2145.6	1831.6	1591.1	1512.1	1532.5	1800.7	2204.5	2269.7	2097.4
30°	2288.9	2387.4	2192.8	1886.7	1628.8	1545.6	1570.9	1883.4	2277.7	2419.0	2276.3
32.5°	2429.2	2500.0	2267.9	1954.7	1698.6	1598.4	1642.8	1983.9	2383.5	2561.1	2451.3
35°	2608.6	2628.7	2361.3	2030.8	1805.9	1690.0	1745.4	2082.4	2484.2	2704.7	2623.8
37.5°	2818.9	2793.0	2449.6	2134.8	1945.0	1833.6	1879.4	2190.4	2567.3	2867.5	2800.0
40°	3026.8	2964.5	2560.3	2296.1	2147.6	2002.8	2057.1	2305.7	2644.7	3030.7	2972.1
42.5°	3203.6	3111.2	2669.5	2473.5	2336.3	2189.5	2254.1	2422.0	2718.7	3169.8	3121.4
45°	3334.4	3219.7	2773.4	2643.8	2596.3	2437.7	2468.2	2555.0	2798.7	3286.1	3244.4
47.5°	3451.2	3328.6	2891.1	2815.7	2823.8	2760.3	2711.2	2709.9	2893.1	3380.9	3360.6
50°	3607.5	3479.7	3017.5	2992.7	3165.1	3122.9	3014.4	2890.8	3012.6	3488.7	3486.4
52.5°	3823.1	3719.0	3171.9	3183.5	3483.7	3511.5	3376.8	3108.1	3199.5	3686.5	3672.5
55°	4077.9	4017.4	3382.1	3402.8	3874.7	3894.4	3760.7	3379.8	3474.5	3972.7	3934.0
57.5°	4276.9	4264.0	3612.7	3666.0	4166.5	4255.5	4132.6	3694.4	3784.3	4213.9	4116.7
60°	4356.0	4418.1	3858.3	3931.7	4436.4	4535.2	4427.4	3970.7	4059.0	4313.8	4104.1
62.5°	4313.2	4451.9	4119.8	4113.7	4496.7	4603.0	4527.2	4124.5	4262.5	4210.8	3896.5
65°	4115.5	4330.4	4271.6	4066.8	4290.5	4299.3	4274.8	4055.8	4310.6	3884.8	3495.1
67.5°	3684.8	3994.0	4071.8	3664.9	3734.3	3677.4	3636.3	3679.6	4060.2	3396.5	2937.4
70°	3001.3	3466.6	3503.8	2931.3	2899.8	2861.7	2779.9	3016.6	3565.9	2783.6	2330.7
72.5°	2206.7	2696.0	2810.4	2149.9	2004.3	2012.1	1947.5	2273.3	2899.3	2067.7	1740.2
75°	1509.8	1952.1	2198.9	1500.1	1325.5	1328.6	1320.5	1610.8	2309.2	1438.4	1302.2
77.5°	1102.9	1394.7	1658.3	1008.6	979.2	961.1	956.7	1127.1	1770.4	1044.4	1011.2
80°	885.1	1030.5	1114.0	698.9	751.7	750.2	726.0	774.9	1156.2	763.9	756.3
82.5°	613.9	791.9	902.6	547.8	507.3	498.9	504.7	577.2	817.3	522.1	496.6
85°	323.9	526.0	893.8	485.4	301.1	240.3	298.9	472.6	708.0	276.7	242.3
87.5°	41.4	152.0	591.7	193.7	118.9	64.0	141.8	266.1	454.6	56.5	49.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0
2.5°	1942.0	1903.2	1852.6	1805.6	1757.0	1708.7	1645.5	1605.9	1578.5	1573.3	1561.7
5°	1894.8	1766.0	1668.8	1584.6	1508.4	1400.6	1340.8	1291.3	1264.9	1262.3	1255.8
7.5°	1677.2	1499.6	1368.3	1249.2	1141.1	1054.1	957.8	913.1	894.8	899.1	903.5
10°	1451.0	1252.3	1101.5	979.7	884.5	811.1	733.9	681.8	645.7	638.4	637.0
12.5°	1285.6	1067.7	921.2	835.3	761.5	692.6	610.8	549.2	502.4	486.3	475.6
15°	1215.6	977.5	824.0	731.3	650.1	562.3	486.3	422.0	378.9	364.9	357.1
17.5°	1230.5	952.3	756.9	638.4	534.4	442.9	347.1	292.2	266.1	259.5	259.5
20°	1308.5	947.8	701.6	552.8	423.2	317.2	238.5	207.0	198.7	197.8	200.1
22.5°	1418.0	964.0	660.3	478.5	328.8	231.5	185.8	174.2	170.3	171.2	173.8
25°	1581.1	1019.1	630.2	412.4	258.1	189.6	165.7	158.8	157.0	159.3	162.5
27.5°	1774.5	1074.1	611.7	362.6	217.9	173.2	157.6	150.2	151.5	154.4	157.3
30°	1944.3	1119.3	582.2	327.0	205.3	174.2	157.6	147.6	146.5	147.1	147.9
32.5°	2096.5	1149.9	547.8	293.3	177.1	154.6	147.1	145.7	139.2	136.9	137.1
35°	2228.1	1149.9	527.1	273.4	158.8	137.1	125.0	117.7	114.5	114.7	118.0
37.5°	2354.6	1126.8	516.9	262.4	148.8	130.4	119.7	113.3	108.9	108.0	108.6
40°	2466.5	1093.3	505.4	257.8	141.3	126.4	116.3	111.0	106.3	104.9	105.1
42.5°	2556.2	1066.3	492.4	251.7	136.6	123.5	113.8	109.3	104.1	102.4	102.2
45°	2653.2	1057.2	475.6	239.4	138.9	123.8	113.3	108.3	103.1	101.4	100.7
47.5°	2780.9	1085.5	458.2	224.8	143.9	125.2	114.1	108.3	102.8	101.4	100.7
50°	2942.1	1151.8	436.0	203.5	138.9	129.4	113.8	107.5	102.8	101.4	100.2
52.5°	3148.9	1241.5	406.9	179.0	136.0	139.2	113.3	105.8	101.4	99.3	97.2
55°	3400.1	1314.9	372.2	159.0	129.4	136.6	112.4	103.7	99.0	96.1	94.4
57.5°	3584.2	1341.4	327.7	145.9	119.9	132.2	111.2	101.1	96.1	93.8	91.4
60°	3547.8	1290.2	290.1	137.7	114.5	119.4	110.4	98.8	93.5	91.8	89.7
62.5°	3256.4	1156.2	265.9	134.0	111.0	108.9	111.2	96.3	91.1	89.4	88.8
65°	2819.2	958.4	256.3	133.1	108.0	102.8	103.4	93.8	88.5	87.1	86.6
67.5°	2325.5	773.5	247.8	136.0	104.3	98.5	95.5	90.2	85.9	84.4	83.2
70°	1833.9	643.3	244.0	134.3	99.7	94.1	90.9	86.6	82.7	81.3	80.5
72.5°	1476.8	543.4	242.0	132.5	93.5	88.3	85.3	81.5	77.5	76.9	76.1
75°	1249.7	427.2	221.6	127.0	86.6	81.3	79.2	75.7	71.7	71.7	71.0
77.5°	964.0	308.9	184.3	112.4	79.2	73.4	71.7	69.1	64.4	65.2	64.9
80°	712.1	201.6	144.1	93.2	70.2	64.7	63.8	61.1	56.2	57.4	57.4
82.5°	487.9	132.2	103.7	76.3	60.0	54.7	54.7	52.1	46.6	47.2	48.9
85°	245.0	90.9	77.5	59.1	46.6	43.9	43.9	41.9	36.4	36.7	39.0
87.5°	74.6	54.7	51.3	42.3	33.6	32.9	31.4	30.0	26.6	26.2	27.7
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0
2.5°	1543.9	1527.2	1507.1	1462.9	1448.0	1447.1	1460.6	1446.6	1473.4	1462.0	1474.6
5°	1245.0	1228.7	1206.3	1149.9	1115.4	1092.1	1081.1	1048.5	1072.1	1054.9	1069.1
7.5°	915.7	919.4	904.5	871.4	796.5	759.0	736.9	717.1	734.2	732.5	759.8
10°	643.6	653.8	643.3	609.8	549.2	528.6	532.6	540.5	563.0	574.6	616.9
12.5°	463.4	462.8	456.0	426.1	386.2	388.5	405.2	418.8	439.4	451.7	494.8
15°	346.1	340.8	337.8	313.3	290.6	295.6	303.7	305.3	318.3	325.6	360.5
17.5°	261.5	264.2	267.3	249.8	232.7	229.5	223.1	215.2	219.1	220.4	237.9
20°	207.7	218.2	225.9	213.8	196.3	187.0	178.8	173.6	173.6	173.2	178.2
22.5°	181.5	189.0	197.4	189.0	173.2	165.1	160.5	156.3	155.8	155.8	160.5
25°	167.1	172.7	180.9	175.1	163.4	157.3	152.9	147.6	145.7	145.0	148.3
27.5°	160.2	162.5	166.6	161.3	151.5	148.5	147.4	142.7	140.1	138.6	141.8
30°	148.3	147.6	147.9	142.7	134.8	134.5	136.6	137.4	136.6	136.2	141.3
32.5°	137.1	136.0	135.7	131.1	123.8	122.1	123.8	125.5	127.7	130.4	136.2
35°	123.3	126.0	127.9	123.8	115.0	109.8	107.7	104.6	102.8	102.8	109.5
37.5°	112.1	118.9	121.5	117.7	108.0	100.7	97.2	96.7	97.0	98.2	104.6
40°	108.3	113.3	115.6	111.9	102.2	95.5	93.5	92.9	93.5	95.3	101.6
42.5°	106.0	109.5	109.3	104.6	96.7	92.0	90.9	90.2	90.9	92.7	99.7
45°	104.1	106.3	104.1	98.5	91.1	88.8	89.1	88.8	89.4	91.1	97.9
47.5°	102.2	103.1	100.2	94.6	87.1	86.6	87.6	88.5	89.1	90.5	97.6
50°	99.7	99.7	97.0	91.1	83.6	83.9	85.3	87.4	87.6	89.4	94.9
52.5°	96.3	96.1	94.4	88.8	80.7	81.5	81.5	83.9	84.4	86.6	92.4
55°	93.8	93.2	92.4	87.1	78.0	79.5	78.6	79.5	81.0	83.0	89.4
57.5°	91.4	90.2	90.2	85.7	76.1	76.6	74.6	75.7	77.5	79.2	85.9
60°	89.1	88.0	88.5	83.6	72.7	72.2	71.3	73.6	74.3	76.3	83.0
62.5°	86.6	85.7	85.9	81.3	70.5	69.1	69.1	71.0	71.3	74.3	80.7
65°	84.4	83.2	83.0	78.8	67.8	66.1	66.9	67.8	68.4	71.3	77.5
67.5°	82.4	80.1	80.1	76.9	64.9	63.2	64.9	64.7	65.5	68.2	73.1
70°	79.8	76.6	76.9	75.4	62.1	60.0	61.4	61.1	61.7	63.5	68.4
72.5°	75.7	73.1	73.6	73.1	59.1	56.2	56.9	56.9	56.9	58.2	63.5
75°	70.5	68.4	70.2	71.7	55.6	51.6	52.1	52.1	51.3	52.1	58.6
77.5°	64.0	63.0	68.8	66.6	51.6	46.6	46.6	46.0	44.2	45.5	52.5
80°	57.1	56.2	63.5	55.9	46.9	40.5	39.9	38.5	36.7	37.5	44.6
82.5°	49.8	48.9	53.3	42.8	40.5	33.6	32.0	29.4	27.7	28.5	35.0
85°	40.8	40.8	41.1	32.3	30.9	25.6	23.9	20.4	18.3	18.9	25.0
87.5°	29.2	30.0	27.7	22.2	18.3	14.3	13.1	11.0	9.3	10.8	13.1
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0
2.5°	1538.6	1570.6	1607.1	1653.6	1693.5	1759.1	1822.0	1859.8
5°	1150.4	1203.7	1270.1	1355.5	1434.9	1554.3	1672.9	1748.9
7.5°	823.4	880.4	952.0	1058.6	1171.0	1323.3	1480.0	1570.9
10°	681.2	739.8	800.0	872.0	964.0	1129.7	1314.9	1417.4
12.5°	563.6	626.2	691.1	766.8	852.1	1000.2	1213.6	1331.6
15°	431.3	501.2	577.8	673.6	780.5	951.4	1188.5	1316.7
17.5°	295.6	373.6	467.7	585.9	716.7	935.7	1233.4	1381.0
20°	203.5	260.4	360.9	499.5	656.7	933.7	1319.7	1504.5
22.5°	170.3	195.7	269.1	420.0	611.7	958.7	1453.2	1677.7
25°	157.6	172.7	214.9	350.9	578.6	1016.4	1637.4	1902.1
27.5°	150.0	163.7	195.1	305.8	552.8	1083.5	1816.4	2119.3
30°	152.9	166.8	189.6	282.8	517.6	1139.3	1975.4	2288.9
32.5°	137.7	143.9	162.5	262.4	492.2	1186.2	2114.7	2429.2
35°	117.4	128.2	145.0	252.8	492.8	1217.7	2266.4	2608.6
37.5°	111.9	122.6	134.8	249.3	499.5	1251.1	2440.6	2818.9
40°	108.3	118.2	128.7	247.3	505.9	1281.7	2611.2	3026.8
42.5°	106.0	115.0	128.2	240.3	509.0	1309.2	2751.5	3203.6
45°	105.8	115.0	130.4	233.3	514.1	1338.5	2869.2	3334.4
47.5°	106.0	118.9	126.0	224.8	514.1	1387.7	3007.4	3451.2
50°	104.9	125.2	121.5	212.9	502.0	1480.9	3196.6	3607.5
52.5°	104.3	124.3	112.4	194.6	481.4	1628.8	3439.3	3823.1
55°	102.8	119.9	106.0	167.1	457.2	1790.2	3699.0	4077.9
57.5°	101.4	106.3	102.4	143.2	420.0	1903.9	3877.8	4276.9
60°	113.6	92.9	99.7	131.6	370.2	1935.0	3870.8	4356.0
62.5°	105.1	87.1	95.8	129.0	335.2	1847.6	3692.0	4313.2
65°	82.4	83.2	92.0	136.6	325.9	1616.1	3375.1	4115.5
67.5°	75.4	79.5	88.3	146.2	326.8	1293.9	2901.6	3684.8
70°	71.0	75.4	83.9	151.1	329.1	964.5	2294.1	3001.3
72.5°	66.1	69.9	78.8	152.0	313.9	700.7	1768.2	2206.7
75°	60.3	63.8	71.9	132.5	260.0	486.1	1352.5	1509.8
77.5°	53.5	56.2	63.2	102.2	193.1	311.1	1015.2	1102.9
80°	45.7	47.2	53.0	74.9	132.2	194.6	803.3	885.1
82.5°	36.7	37.2	41.1	56.2	85.9	125.0	537.9	613.9
85°	25.9	25.9	28.3	40.8	58.6	79.2	292.2	323.9
87.5°	12.2	12.6	12.6	22.4	30.6	40.2	67.3	41.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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