

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: P194619

Luminaire Tested: **GLEON-AF-01-LED-E1-SLL-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194619
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-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 800mA 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: 4426 lumens
Efficiency: N/A
Efficacy: 100.6 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): 44
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

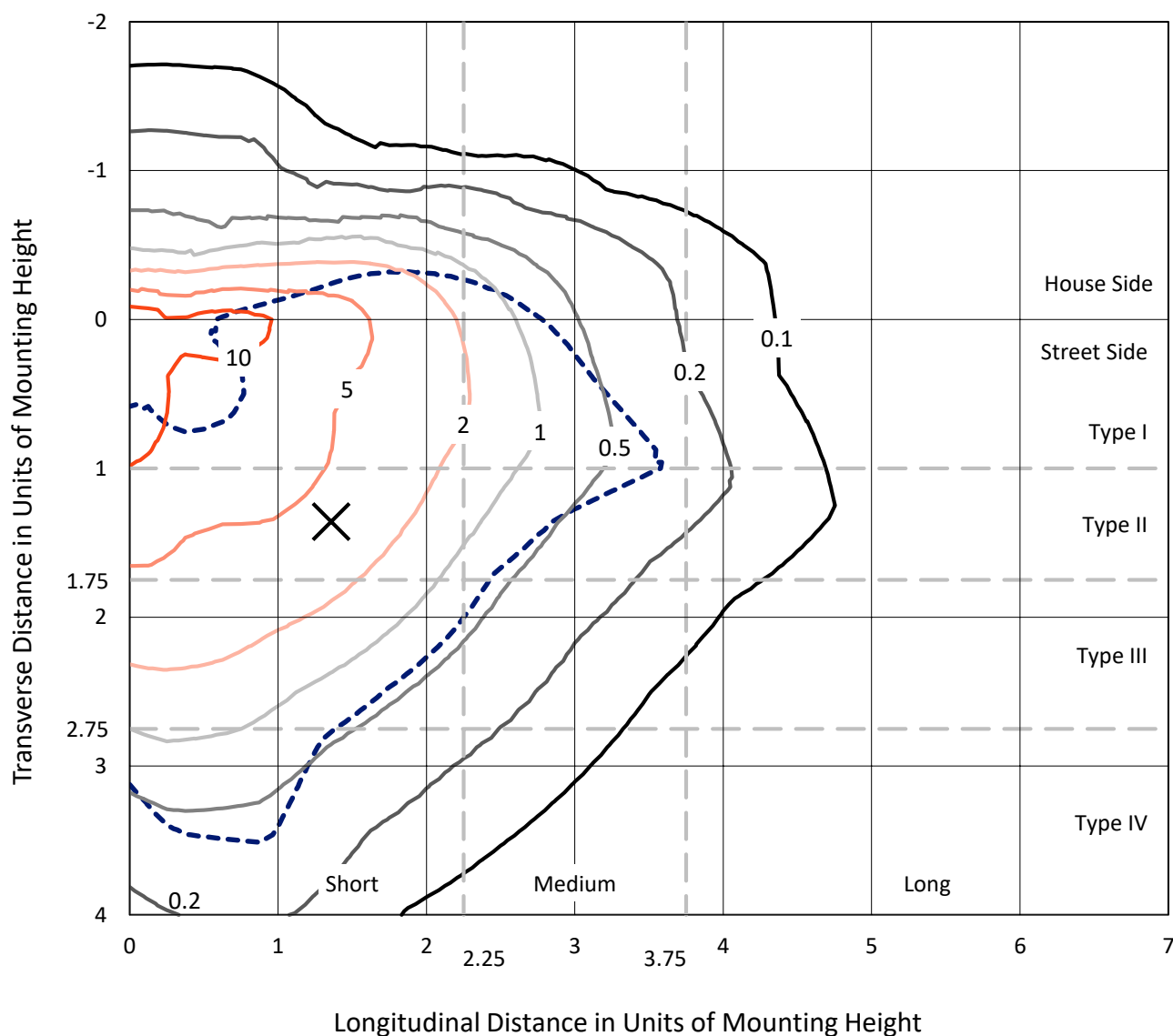


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

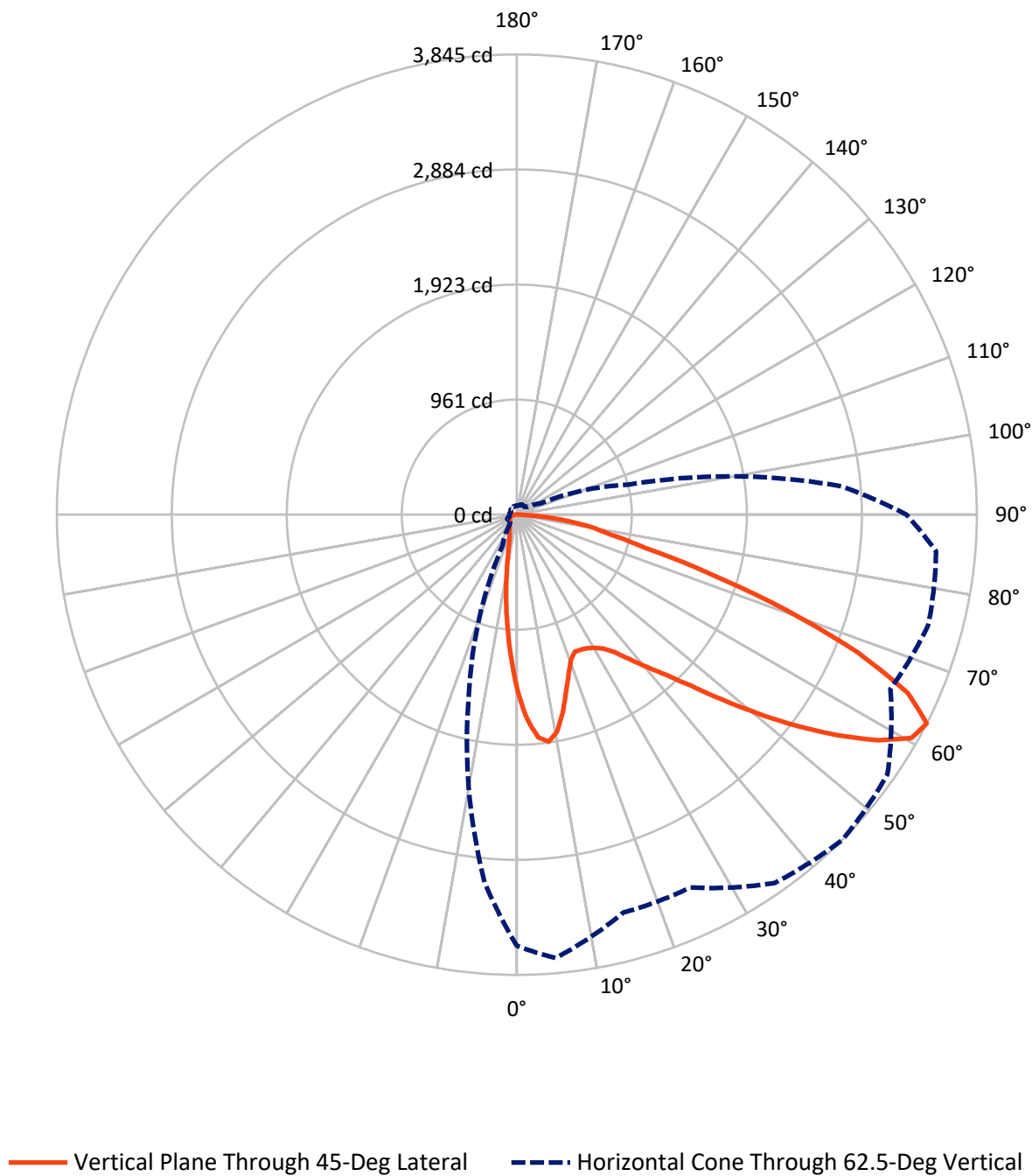


Based on 10 foot mounting height. Maximum calculated value = 17.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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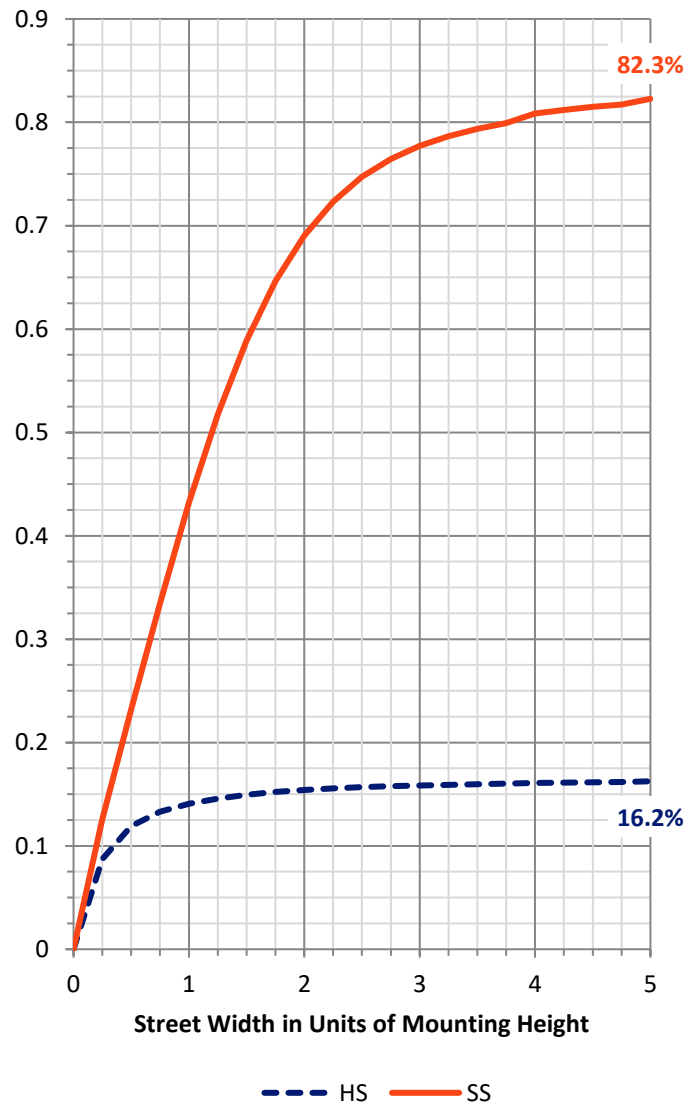
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	732.4	0.0	732.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3693.6	0.0	3693.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	4426.0	0.0	4426.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.9	2.5
10°-20°	199.6	4.5
20°-30°	291.0	6.6
30°-40°	448.2	10.1
40°-50°	659.7	14.9
50°-60°	967.6	21.9
60°-70°	1081.6	24.4
70°-80°	529.6	12.0
80°-90°	139.8	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°	4426.0	100.0
0°-180°	4426.0	100.0

Coefficient of Utilization



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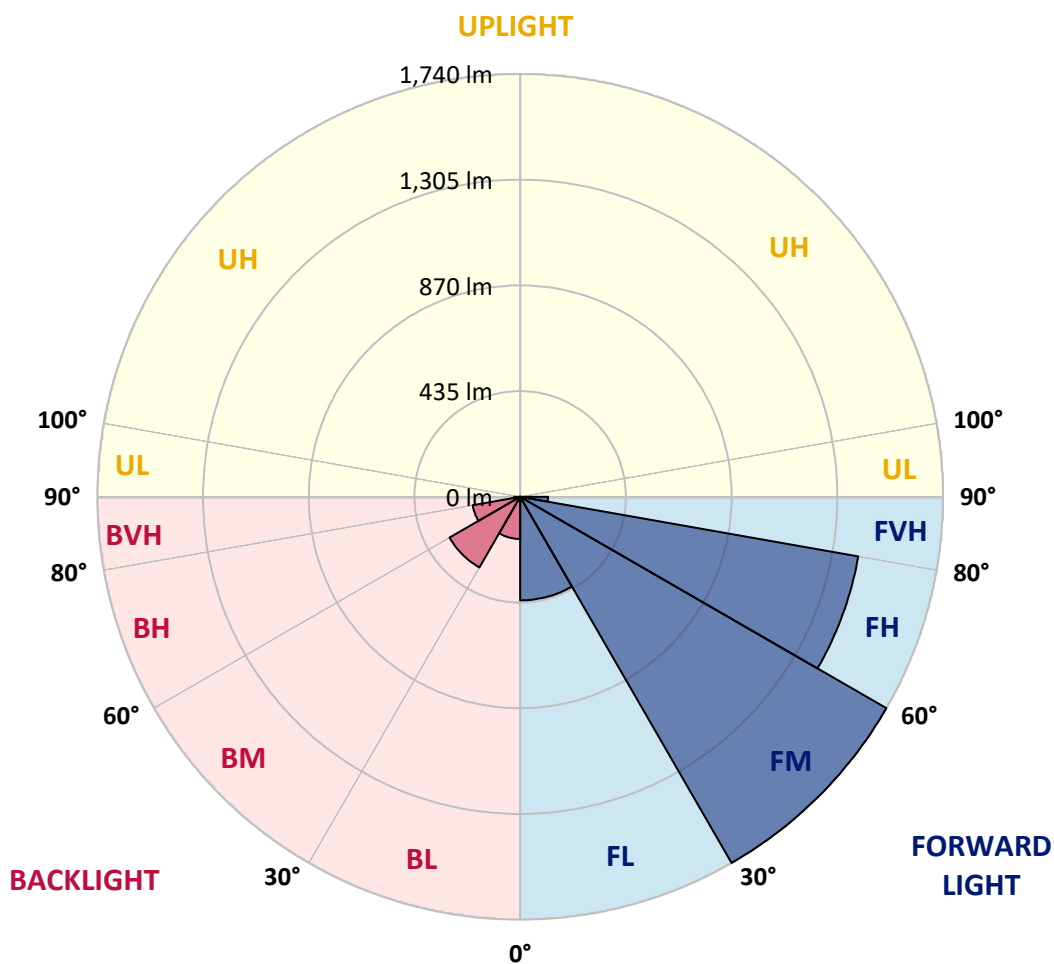
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	426.2	9.6			
FM	(30°-60°)	1739.9	39.3			
FH	(60°-80°)	1412.6	31.9			G1/1800
FVH	(80°-90°)	114.8	2.6			G2/225
BL	(0°-30°)	173.3	3.9	B1/500		
BM	(30°-60°)	335.6	7.6	B1/1000		
BH	(60°-80°)	198.6	4.5	B1/500		G1/500
BVH	(80°-90°)	25.0	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°	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3
2.5°	1553.7	1578.6	1627.0	1663.2	1707.3	1717.5	1731.6	1717.7	1693.1	1660.5	1649.8
5°	1461.0	1514.1	1631.6	1735.0	1827.0	1869.8	1881.7	1846.4	1775.1	1681.5	1624.3
7.5°	1312.4	1387.8	1546.9	1699.2	1834.7	1914.8	1912.8	1830.9	1699.7	1547.2	1455.4
10°	1184.2	1270.3	1452.8	1623.1	1766.9	1844.5	1814.6	1709.7	1553.2	1377.6	1278.1
12.5°	1112.4	1196.8	1382.0	1553.0	1673.2	1700.0	1677.1	1574.4	1427.0	1249.4	1162.3
15°	1100.0	1192.7	1353.7	1492.9	1560.3	1536.9	1509.7	1463.7	1359.6	1208.0	1117.2
17.5°	1153.7	1255.9	1386.1	1451.1	1439.6	1399.0	1391.2	1396.3	1371.3	1254.0	1149.4
20°	1256.9	1379.5	1463.2	1431.4	1347.9	1291.9	1293.9	1372.0	1446.2	1370.5	1251.1
22.5°	1401.7	1541.6	1574.4	1441.8	1309.2	1242.8	1258.9	1385.4	1565.7	1540.8	1388.3
25°	1589.0	1716.5	1692.9	1479.8	1313.1	1248.9	1261.8	1431.6	1706.8	1711.2	1558.1
27.5°	1770.5	1888.8	1792.4	1530.1	1329.2	1263.2	1280.3	1504.3	1841.6	1896.1	1752.3
30°	1912.1	1994.4	1831.8	1576.1	1360.8	1291.2	1312.4	1573.4	1902.9	2020.9	1901.7
32.5°	2029.4	2088.5	1894.6	1633.1	1418.9	1335.2	1372.5	1657.4	1991.2	2139.6	2047.9
35°	2179.3	2196.1	1972.7	1696.6	1508.7	1411.9	1458.1	1739.6	2075.4	2259.6	2191.9
37.5°	2354.9	2333.3	2046.4	1783.4	1624.8	1531.8	1570.0	1829.9	2144.7	2395.6	2339.1
40°	2528.6	2476.6	2138.9	1918.2	1794.1	1673.2	1718.5	1926.2	2209.4	2531.8	2482.9
42.5°	2676.3	2599.2	2230.1	2066.4	1951.8	1829.2	1883.2	2023.3	2271.2	2648.1	2607.7
45°	2785.6	2689.7	2317.0	2208.7	2169.0	2036.4	2062.0	2134.5	2338.1	2745.2	2710.4
47.5°	2883.1	2780.7	2415.3	2352.3	2359.1	2306.0	2264.9	2263.9	2417.0	2824.5	2807.5
50°	3013.8	2907.0	2520.9	2500.2	2644.2	2608.9	2518.2	2415.0	2516.7	2914.5	2912.6
52.5°	3193.8	3107.0	2649.8	2659.5	2910.4	2933.5	2821.1	2596.5	2672.9	3079.7	3068.1
55°	3406.7	3356.1	2825.5	2842.8	3236.9	3253.4	3141.8	2823.5	2902.6	3318.9	3286.5
57.5°	3572.9	3562.2	3018.2	3062.7	3480.7	3555.1	3452.5	3086.3	3161.5	3520.4	3439.1
60°	3639.1	3690.9	3223.3	3284.6	3706.2	3788.7	3698.7	3317.2	3390.9	3603.8	3428.6
62.5°	3603.3	3719.1	3441.8	3436.7	3756.6	3845.4	3782.1	3445.7	3561.0	3517.7	3255.2
65°	3438.1	3617.7	3568.5	3397.5	3584.3	3591.6	3571.2	3388.2	3601.1	3245.4	2919.9
67.5°	3078.3	3336.7	3401.6	3061.7	3119.6	3072.2	3037.9	3073.9	3391.9	2837.4	2454.0
70°	2507.2	2896.0	2927.2	2448.8	2422.6	2390.7	2322.3	2520.1	2979.0	2325.5	1947.2
72.5°	1843.5	2252.3	2347.9	1796.1	1674.4	1681.0	1627.0	1899.2	2422.1	1727.5	1453.7
75°	1261.3	1630.9	1836.9	1253.3	1107.3	1109.9	1103.1	1345.7	1929.2	1201.7	1087.8
77.5°	921.4	1165.2	1385.4	842.6	818.0	802.9	799.3	941.6	1479.0	872.5	844.7
80°	739.4	860.8	930.6	583.9	628.0	626.7	606.6	647.4	965.9	638.2	631.9
82.5°	512.9	661.5	754.0	457.7	423.8	416.8	421.6	482.2	682.7	436.2	414.8
85°	270.6	439.4	746.7	405.6	251.6	200.7	249.6	394.9	591.5	231.1	202.4
87.5°	34.5	127.0	494.4	161.8	99.3	53.5	118.5	222.4	379.8	47.2	41.1
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°	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3
2.5°	1622.3	1590.0	1547.7	1508.5	1467.8	1427.5	1374.7	1341.6	1318.7	1314.3	1304.6
5°	1582.9	1475.4	1394.1	1323.8	1260.1	1170.0	1120.2	1078.8	1056.7	1054.5	1049.1
7.5°	1401.2	1252.8	1143.0	1043.5	953.3	880.5	800.2	762.8	747.4	751.1	754.7
10°	1212.1	1046.2	920.2	818.5	738.9	677.6	613.1	569.6	539.4	533.3	532.1
12.5°	1073.9	891.9	769.6	697.8	636.2	578.6	510.2	458.9	419.7	406.3	397.3
15°	1015.5	816.5	688.3	610.9	543.1	469.8	406.3	352.5	316.5	304.9	298.3
17.5°	1028.0	795.6	632.3	533.3	446.5	370.1	290.0	244.0	222.4	216.8	216.8
20°	1093.2	791.7	586.1	461.8	353.5	265.0	199.3	173.0	165.9	165.2	167.1
22.5°	1184.6	805.3	551.6	399.7	274.7	193.4	155.2	145.5	142.3	143.1	145.3
25°	1320.9	851.3	526.5	344.5	215.6	158.4	138.4	132.6	131.1	133.1	135.8
27.5°	1482.4	897.3	510.9	302.9	182.0	144.8	131.6	125.5	126.5	129.0	131.4
30°	1624.3	935.0	486.4	273.2	171.5	145.5	131.6	123.4	122.4	122.9	123.6
32.5°	1751.5	960.6	457.7	245.0	147.9	129.2	122.9	121.7	116.3	114.4	114.6
35°	1861.3	960.6	440.4	228.5	132.6	114.6	104.4	98.3	95.6	95.9	98.5
37.5°	1967.1	941.3	431.9	219.2	124.3	109.0	100.0	94.6	91.0	90.3	90.8
40°	2060.5	913.4	422.1	215.3	118.0	105.6	97.1	92.7	88.8	87.6	87.8
42.5°	2135.5	890.7	411.4	210.2	114.1	103.2	95.1	91.2	86.9	85.6	85.4
45°	2216.5	883.2	397.3	200.0	116.1	103.4	94.6	90.5	86.1	84.7	84.2
47.5°	2323.3	906.8	382.7	187.8	120.2	104.6	95.4	90.5	85.9	84.7	84.2
50°	2457.8	962.3	364.2	170.1	116.1	108.0	95.1	89.8	85.9	84.7	83.7
52.5°	2630.6	1037.2	339.9	149.6	113.6	116.3	94.6	88.3	84.7	83.0	81.3
55°	2840.6	1098.5	310.9	132.8	108.0	114.1	93.9	86.6	82.7	80.3	78.8
57.5°	2994.3	1120.7	273.7	121.9	100.2	110.5	92.9	84.4	80.3	78.3	76.4
60°	2963.9	1077.8	242.3	115.1	95.6	99.8	92.2	82.5	78.1	76.6	74.9
62.5°	2720.4	965.9	222.1	111.9	92.7	91.0	92.9	80.5	76.2	74.7	74.2
65°	2355.2	800.7	214.1	111.2	90.3	85.9	86.4	78.3	74.0	72.7	72.3
67.5°	1942.8	646.2	207.1	113.6	87.1	82.2	79.8	75.4	71.8	70.6	69.6
70°	1532.1	537.5	203.9	112.2	83.2	78.6	75.9	72.3	69.1	67.9	67.2
72.5°	1233.8	454.0	202.2	110.7	78.1	73.7	71.3	68.1	64.7	64.2	63.5
75°	1044.0	356.9	185.2	106.1	72.3	67.9	66.2	63.3	59.9	59.9	59.4
77.5°	805.3	258.1	154.0	93.9	66.2	61.3	59.9	57.7	53.8	54.5	54.3
80°	594.9	168.4	120.4	77.9	58.6	54.0	53.3	51.1	47.0	47.9	47.9
82.5°	407.5	110.5	86.6	63.7	50.1	45.7	45.7	43.6	38.9	39.4	40.9
85°	204.6	75.9	64.7	49.4	38.9	36.7	36.7	35.0	30.4	30.7	32.6
87.5°	62.3	45.7	42.8	35.3	28.0	27.5	26.3	25.1	22.1	21.9	23.1
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3
2.5°	1289.8	1275.9	1259.1	1222.1	1209.7	1209.0	1220.2	1208.5	1230.9	1221.4	1231.8
5°	1040.1	1026.5	1007.8	960.6	931.9	912.4	903.1	875.9	895.6	881.2	893.2
7.5°	764.9	768.1	755.7	728.0	665.4	634.0	615.6	599.0	613.4	611.9	634.8
10°	537.7	546.2	537.5	509.5	458.9	441.6	445.0	451.6	470.3	480.0	515.3
12.5°	387.1	386.6	381.0	356.0	322.6	324.6	338.4	349.9	367.1	377.4	413.4
15°	289.0	284.7	282.2	261.8	242.8	247.0	253.8	255.0	265.9	272.0	301.2
17.5°	218.5	220.7	223.4	208.8	194.4	191.7	186.4	179.8	183.0	184.2	198.8
20°	173.5	182.2	188.8	178.6	164.0	156.2	149.4	145.0	145.0	144.8	148.9
22.5°	151.6	157.9	165.0	157.9	144.8	138.0	134.1	130.7	130.2	130.2	134.1
25°	139.7	144.3	151.1	146.2	136.5	131.4	127.7	123.4	121.7	121.2	123.8
27.5°	133.8	135.8	139.2	134.8	126.5	124.1	123.1	119.2	117.0	115.8	118.5
30°	123.8	123.4	123.6	119.2	112.6	112.4	114.1	114.8	114.1	113.9	118.0
32.5°	114.6	113.6	113.4	109.5	103.4	101.9	103.4	104.9	106.6	109.0	113.9
35°	102.9	105.4	106.8	103.4	96.1	91.7	90.0	87.3	85.9	85.9	91.5
37.5°	93.7	99.3	101.5	98.3	90.3	84.2	81.3	80.8	81.0	82.0	87.3
40°	90.5	94.6	96.6	93.4	85.4	79.8	78.1	77.6	78.1	79.6	84.9
42.5°	88.6	91.5	91.2	87.3	80.8	76.9	75.9	75.4	75.9	77.4	83.2
45°	86.9	88.8	86.9	82.2	76.2	74.2	74.5	74.2	74.7	76.2	81.7
47.5°	85.4	86.1	83.7	79.1	72.7	72.3	73.2	74.0	74.5	75.7	81.5
50°	83.2	83.2	81.0	76.2	69.8	70.1	71.3	73.0	73.2	74.7	79.3
52.5°	80.5	80.3	78.8	74.2	67.4	68.1	68.1	70.1	70.6	72.3	77.1
55°	78.3	77.9	77.1	72.7	65.2	66.4	65.7	66.4	67.6	69.3	74.7
57.5°	76.4	75.4	75.4	71.5	63.5	64.0	62.3	63.3	64.7	66.2	71.8
60°	74.5	73.5	74.0	69.8	60.8	60.3	59.6	61.6	62.0	63.7	69.3
62.5°	72.3	71.5	71.8	67.9	58.9	57.7	57.7	59.4	59.6	62.0	67.4
65°	70.6	69.6	69.3	65.9	56.7	55.2	56.0	56.7	57.2	59.6	64.7
67.5°	68.9	66.9	66.9	64.2	54.3	52.8	54.3	54.0	54.7	56.9	61.1
70°	66.7	64.0	64.2	63.0	51.8	50.1	51.3	51.1	51.6	53.0	57.2
72.5°	63.3	61.1	61.6	61.1	49.4	47.0	47.4	47.4	47.4	48.7	53.0
75°	58.9	57.2	58.6	59.9	46.5	43.1	43.6	43.6	42.8	43.6	48.9
77.5°	53.5	52.6	57.4	55.7	43.1	38.9	38.9	38.4	37.0	38.0	43.8
80°	47.7	47.0	53.0	46.7	39.2	33.8	33.3	32.1	30.7	31.4	37.2
82.5°	41.6	40.9	44.5	35.8	33.8	28.0	26.8	24.6	23.1	23.8	29.2
85°	34.1	34.1	34.3	27.0	25.8	21.4	20.0	17.0	15.3	15.8	20.9
87.5°	24.3	25.1	23.1	18.5	15.3	11.9	10.9	9.2	7.8	9.0	10.9
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°	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3
2.5°	1285.4	1312.1	1342.5	1381.5	1414.8	1469.6	1522.1	1553.7
5°	961.0	1005.6	1061.0	1132.3	1198.8	1298.5	1397.5	1461.0
7.5°	687.8	735.5	795.4	884.4	978.3	1105.6	1236.5	1312.4
10°	569.1	618.0	668.4	728.4	805.3	943.8	1098.5	1184.2
12.5°	470.8	523.1	577.4	640.6	711.9	835.5	1013.8	1112.4
15°	360.3	418.7	482.7	562.8	652.1	794.9	992.9	1100.0
17.5°	247.0	312.2	390.7	489.5	598.8	781.7	1030.4	1153.7
20°	170.1	217.5	301.5	417.3	548.6	780.0	1102.4	1256.9
22.5°	142.3	163.5	224.8	350.8	510.9	801.0	1214.1	1401.7
25°	131.6	144.3	179.6	293.2	483.4	849.1	1367.9	1589.0
27.5°	125.3	136.7	163.0	255.5	461.8	905.1	1517.5	1770.5
30°	127.7	139.4	158.4	236.2	432.3	951.8	1650.3	1912.1
32.5°	115.1	120.2	135.8	219.2	411.2	991.0	1766.6	2029.4
35°	98.1	107.1	121.2	211.2	411.7	1017.3	1893.4	2179.3
37.5°	93.4	102.4	112.6	208.3	417.3	1045.2	2038.9	2354.9
40°	90.5	98.8	107.5	206.6	422.6	1070.8	2181.5	2528.6
42.5°	88.6	96.1	107.1	200.7	425.3	1093.6	2298.7	2676.3
45°	88.3	96.1	109.0	194.9	429.4	1118.2	2397.0	2785.6
47.5°	88.6	99.3	105.4	187.8	429.4	1159.3	2512.3	2883.1
50°	87.6	104.6	101.5	177.9	419.5	1237.2	2670.5	3013.8
52.5°	87.1	103.9	93.9	162.5	402.2	1360.8	2873.2	3193.8
55°	85.9	100.2	88.6	139.7	382.0	1495.6	3090.2	3406.7
57.5°	84.7	88.8	85.6	119.7	350.8	1590.5	3239.6	3572.9
60°	94.9	77.6	83.2	110.0	309.2	1616.5	3233.7	3639.1
62.5°	87.8	72.7	80.0	107.8	280.0	1543.5	3084.4	3603.3
65°	68.9	69.6	76.9	114.1	272.3	1350.1	2819.6	3438.1
67.5°	63.0	66.4	73.7	122.1	273.0	1081.0	2424.0	3078.3
70°	59.4	63.0	70.1	126.3	274.9	805.8	1916.5	2507.2
72.5°	55.2	58.4	65.9	127.0	262.3	585.4	1477.1	1843.5
75°	50.4	53.3	60.1	110.7	217.3	406.1	1129.9	1261.3
77.5°	44.8	47.0	52.8	85.4	161.3	259.8	848.2	921.4
80°	38.2	39.4	44.3	62.5	110.5	162.5	671.0	739.4
82.5°	30.7	31.1	34.3	47.0	71.8	104.4	449.4	512.9
85°	21.7	21.7	23.6	34.1	48.9	66.2	244.0	270.6
87.5°	10.2	10.5	10.5	18.7	25.5	33.6	56.2	34.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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