

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: P200641

Luminaire Tested: **GWC-AF-01-LED-E1-SLL-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200641
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: GWC-AF-01-LED-E1-SLL-8030-1200
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 3000K, 1200mA 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: 5001 lumens
Efficiency: N/A
Efficacy: 74.6 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): 67
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

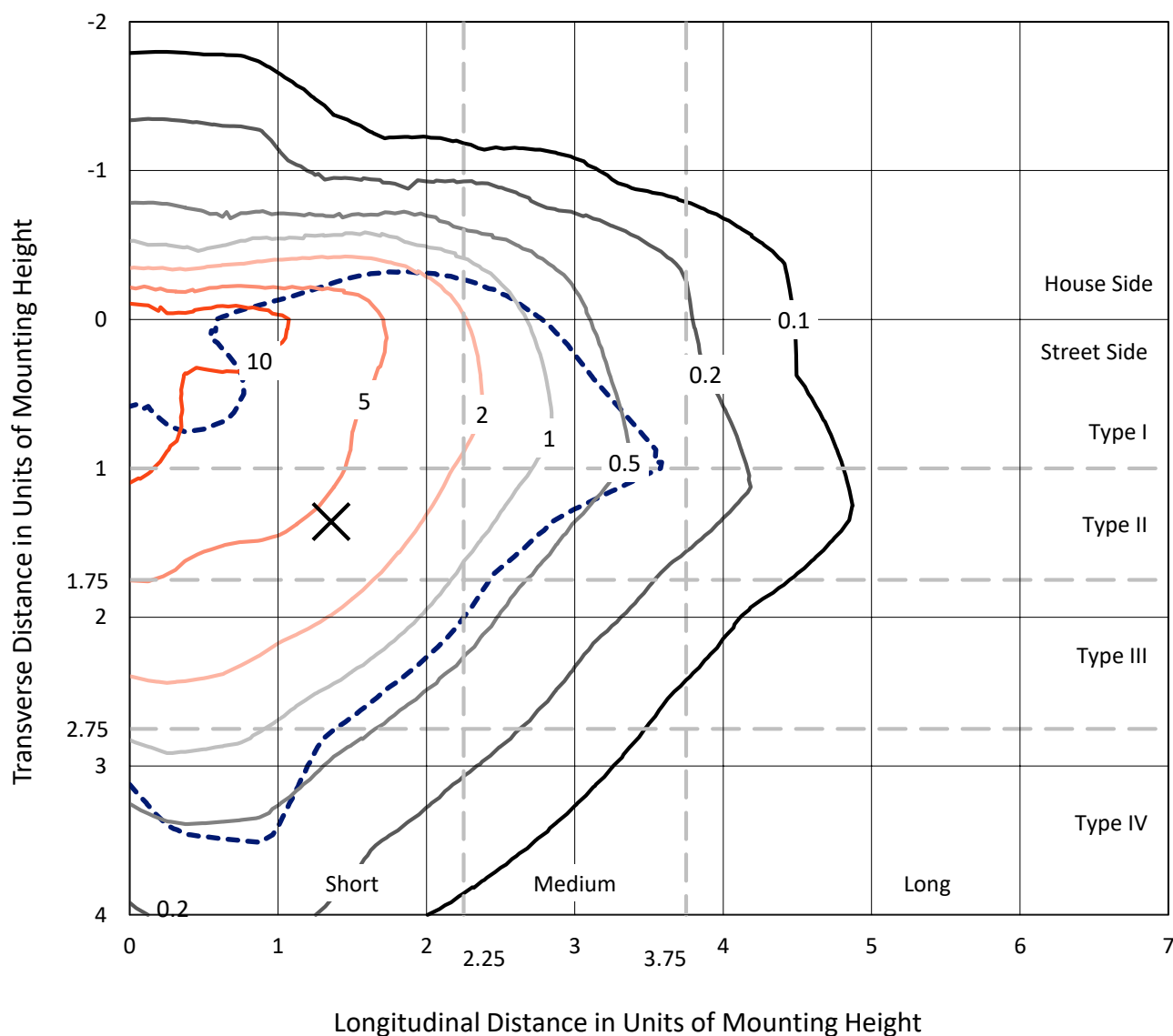


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

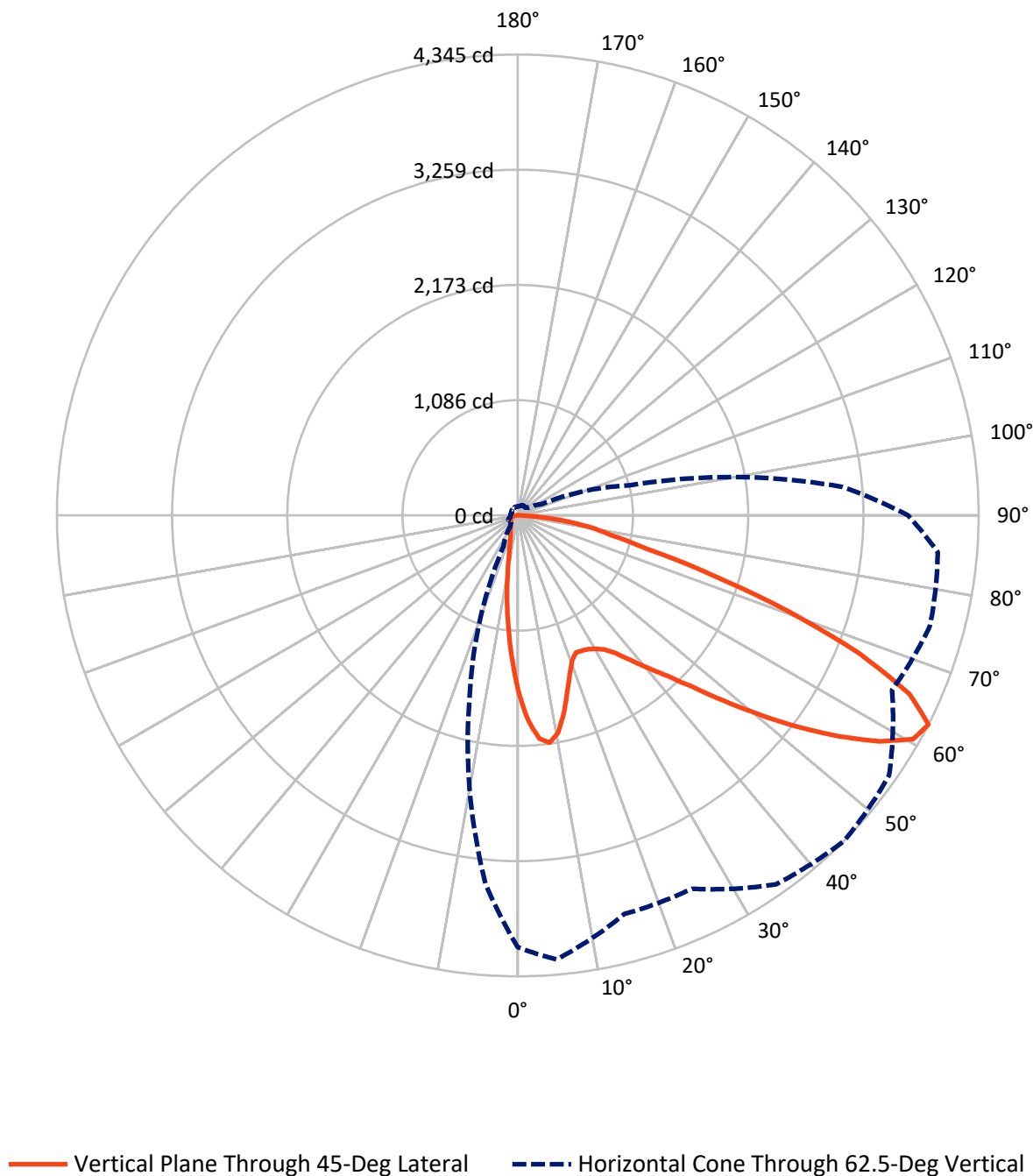


Based on 10 foot mounting height. Maximum calculated value = 19.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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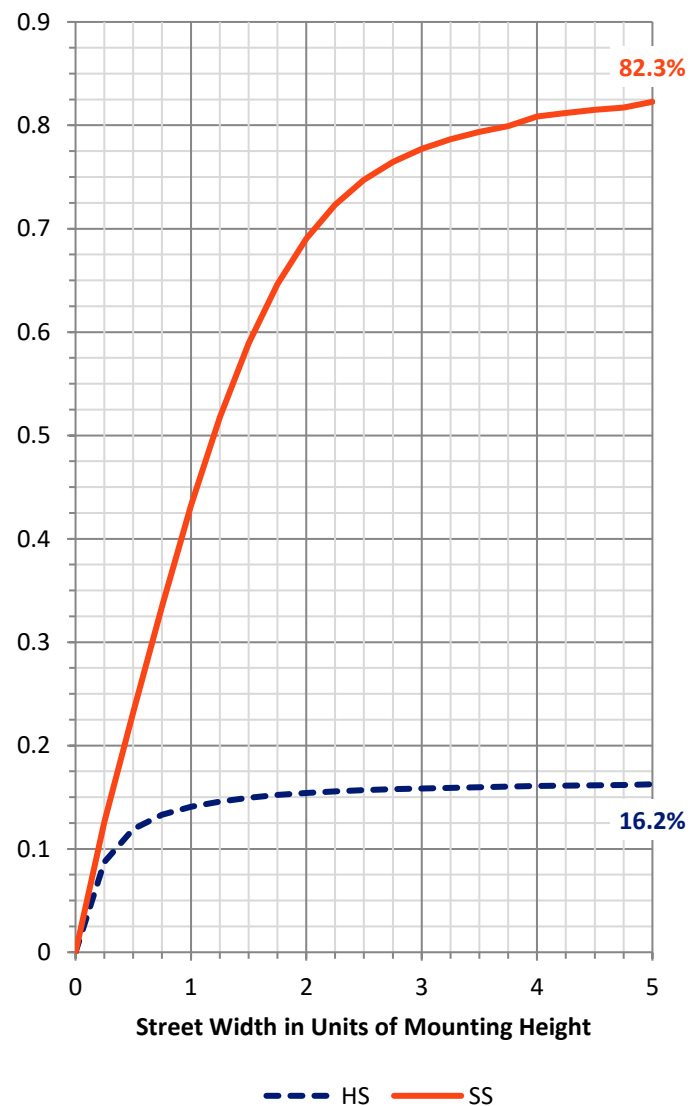
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	827.6	0.0	827.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4173.4	0.0	4173.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	5001.0	0.0	5001.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	2.5
10°-20°	225.5	4.5
20°-30°	328.8	6.6
30°-40°	506.5	10.1
40°-50°	745.4	14.9
50°-60°	1093.3	21.9
60°-70°	1222.2	24.4
70°-80°	598.4	12.0
80°-90°	158.0	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°	5001.0	100.0
0°-180°	5001.0	100.0

Coefficient of Utilization



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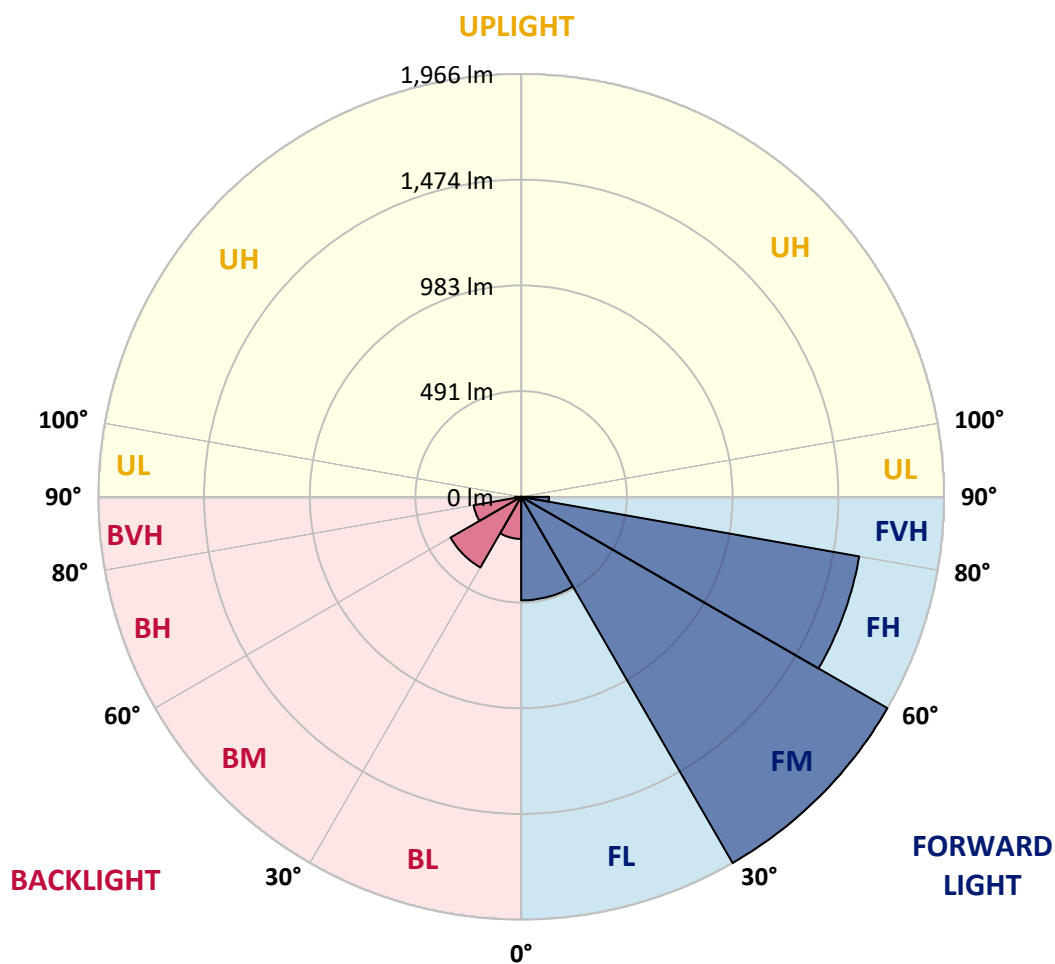
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	481.6	9.6			
FM	(30°-60°)	1965.9	39.3			
FH	(60°-80°)	1596.1	31.9			G1/1800
FVH	(80°-90°)	129.7	2.6			G2/225
BL	(0°-30°)	195.8	3.9	B1/500		
BM	(30°-60°)	379.2	7.6	B1/1000		
BH	(60°-80°)	224.4	4.5	B1/500		G1/500
BVH	(80°-90°)	28.2	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°	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6
2.5°	1755.6	1783.6	1838.3	1879.3	1929.1	1940.6	1956.5	1940.9	1913.1	1876.3	1864.2
5°	1650.8	1710.8	1843.6	1960.4	2064.3	2112.7	2126.2	2086.3	2005.8	1899.9	1835.3
7.5°	1482.9	1568.1	1747.9	1920.0	2073.1	2163.6	2161.4	2068.7	1920.5	1748.2	1644.5
10°	1338.0	1435.3	1641.5	1833.9	1996.4	2084.1	2050.3	1931.8	1755.0	1556.5	1444.1
12.5°	1256.9	1352.3	1561.5	1754.8	1890.6	1920.8	1895.0	1779.0	1612.4	1411.7	1313.3
15°	1242.9	1347.6	1529.6	1686.9	1763.0	1736.6	1705.8	1653.9	1536.2	1364.9	1262.4
17.5°	1303.6	1419.1	1566.2	1639.6	1626.7	1580.7	1571.9	1577.7	1549.4	1416.9	1298.7
20°	1420.2	1558.7	1653.3	1617.3	1523.0	1459.8	1462.0	1550.2	1634.1	1548.6	1413.6
22.5°	1583.8	1741.8	1779.0	1629.1	1479.3	1404.2	1422.4	1565.3	1769.1	1741.0	1568.6
25°	1795.4	1939.5	1912.8	1672.0	1483.7	1411.1	1425.7	1617.6	1928.5	1933.5	1760.5
27.5°	2000.5	2134.1	2025.3	1728.9	1501.8	1427.3	1446.6	1699.8	2080.8	2142.4	1979.9
30°	2160.5	2253.5	2069.8	1780.9	1537.6	1459.0	1482.9	1777.9	2150.1	2283.4	2148.7
32.5°	2293.0	2359.8	2140.7	1845.2	1603.3	1508.7	1550.8	1872.7	2249.9	2417.6	2313.9
35°	2462.4	2481.4	2229.0	1917.0	1704.7	1595.3	1647.5	1965.6	2345.0	2553.1	2476.7
37.5°	2660.9	2636.4	2312.3	2015.1	1835.9	1730.8	1774.0	2067.6	2423.3	2706.8	2643.0
40°	2857.2	2798.3	2416.7	2167.4	2027.2	1890.6	1941.7	2176.5	2496.5	2860.7	2805.5
42.5°	3024.0	2936.9	2519.8	2334.8	2205.3	2066.8	2127.8	2286.2	2566.3	2992.1	2946.5
45°	3147.5	3039.1	2618.0	2495.6	2450.8	2301.0	2329.9	2411.8	2641.9	3101.8	3062.5
47.5°	3257.7	3142.0	2729.0	2657.8	2665.5	2605.6	2559.2	2558.1	2731.0	3191.4	3172.2
50°	3405.3	3284.6	2848.4	2825.0	2987.7	2947.9	2845.3	2728.8	2843.7	3293.2	3291.0
52.5°	3608.8	3510.6	2994.1	3005.1	3288.5	3314.6	3187.6	2933.9	3020.2	3479.8	3466.6
55°	3849.3	3792.1	3192.5	3212.1	3657.4	3676.1	3549.9	3190.4	3279.7	3750.1	3713.5
57.5°	4037.1	4025.0	3410.3	3460.6	3932.9	4017.0	3901.0	3487.3	3572.2	3977.7	3885.9
60°	4111.9	4170.4	3642.0	3711.3	4187.7	4280.9	4179.2	3748.1	3831.4	4072.0	3874.1
62.5°	4071.4	4202.3	3888.9	3883.1	4244.6	4345.0	4273.5	3893.3	4023.6	3974.7	3678.0
65°	3884.8	4087.7	4032.1	3838.9	4050.0	4058.2	4035.2	3828.4	4069.0	3667.0	3299.2
67.5°	3478.2	3770.1	3843.5	3459.5	3524.9	3471.3	3432.5	3473.2	3832.5	3206.0	2772.8
70°	2833.0	3272.3	3307.5	2767.0	2737.3	2701.3	2624.0	2847.5	3366.0	2627.6	2200.1
72.5°	2083.0	2544.9	2652.9	2029.4	1891.9	1899.4	1838.3	2146.0	2736.7	1951.9	1642.6
75°	1425.1	1842.7	2075.6	1416.1	1251.1	1254.1	1246.4	1520.5	2179.8	1357.8	1229.1
77.5°	1041.1	1316.6	1565.3	952.0	924.3	907.2	903.1	1063.9	1671.2	985.8	954.5
80°	835.5	972.6	1051.5	659.8	709.5	708.2	685.4	731.5	1091.4	721.1	713.9
82.5°	579.5	747.5	852.0	517.1	478.9	470.9	476.4	544.9	771.4	492.9	468.7
85°	305.7	496.5	843.7	458.3	284.3	226.8	282.1	446.2	668.3	261.2	228.7
87.5°	39.0	143.5	558.6	182.8	112.2	60.5	133.9	251.3	429.1	53.3	46.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6
2.5°	1833.1	1796.5	1748.7	1704.5	1658.5	1612.9	1553.3	1515.9	1490.0	1485.1	1474.1
5°	1788.6	1667.1	1575.2	1495.8	1423.8	1322.1	1265.7	1219.0	1193.9	1191.5	1185.4
7.5°	1583.2	1415.5	1291.5	1179.1	1077.1	994.9	904.2	861.8	844.5	848.7	852.8
10°	1369.6	1182.1	1039.7	924.8	834.9	765.6	692.8	643.6	609.5	602.6	601.2
12.5°	1213.5	1007.8	869.5	788.4	718.9	653.7	576.5	518.5	474.2	459.1	448.9
15°	1147.5	922.6	777.7	690.3	613.6	530.9	459.1	398.3	357.7	344.5	337.0
17.5°	1161.5	899.0	714.5	602.6	504.5	418.1	327.7	275.7	251.3	244.9	244.9
20°	1235.2	894.6	662.3	521.8	399.4	299.4	225.2	195.5	187.5	186.7	188.9
22.5°	1338.5	910.0	623.2	451.7	310.4	218.6	175.4	164.4	160.8	161.6	164.1
25°	1492.5	961.9	594.9	389.3	243.6	179.0	156.4	149.8	148.2	150.4	153.4
27.5°	1675.0	1013.9	577.3	342.3	205.6	163.6	148.7	141.9	143.0	145.7	148.5
30°	1835.3	1056.5	549.5	308.7	193.8	164.4	148.7	139.4	138.3	138.8	139.7
32.5°	1979.1	1085.4	517.1	276.8	167.1	146.0	138.8	137.5	131.4	129.2	129.5
35°	2103.1	1085.4	497.6	258.1	149.8	129.5	117.9	111.1	108.0	108.3	111.3
37.5°	2222.7	1063.6	488.0	247.7	140.5	123.2	113.0	106.9	102.8	102.0	102.5
40°	2328.2	1032.0	477.0	243.3	133.3	119.3	109.7	104.7	100.3	99.0	99.2
42.5°	2412.9	1006.5	464.9	237.5	128.9	116.6	107.5	103.1	98.1	96.8	96.5
45°	2504.4	997.9	448.9	226.0	131.1	116.8	106.9	102.3	97.3	95.7	95.1
47.5°	2625.1	1024.6	432.4	212.2	135.8	118.2	107.8	102.3	97.0	95.7	95.1
50°	2777.2	1087.3	411.5	192.2	131.1	122.1	107.5	101.4	97.0	95.7	94.6
52.5°	2972.3	1171.9	384.1	169.1	128.4	131.4	106.9	99.8	95.7	93.7	91.8
55°	3209.6	1241.2	351.3	150.1	122.1	128.9	106.1	97.9	93.5	90.7	89.1
57.5°	3383.3	1266.2	309.3	137.7	113.3	124.8	105.0	95.4	90.7	88.5	86.3
60°	3349.0	1217.9	273.8	130.0	108.0	112.7	104.2	93.2	88.2	86.6	84.7
62.5°	3073.8	1091.4	251.0	126.5	104.7	102.8	105.0	91.0	86.0	84.4	83.8
65°	2661.1	904.7	241.9	125.6	102.0	97.0	97.6	88.5	83.6	82.2	81.6
67.5°	2195.2	730.2	233.9	128.4	98.4	92.9	90.2	85.2	81.1	79.7	78.6
70°	1731.1	607.3	230.4	126.7	94.0	88.8	85.8	81.6	78.1	76.7	75.9
72.5°	1394.1	513.0	228.5	125.1	88.2	83.3	80.5	77.0	73.1	72.6	71.8
75°	1179.6	403.3	209.2	119.9	81.6	76.7	74.8	71.5	67.6	67.6	67.1
77.5°	910.0	291.7	174.0	106.1	74.8	69.3	67.6	65.2	60.8	61.6	61.3
80°	672.2	190.2	136.1	88.0	66.3	61.0	60.2	57.7	53.1	54.2	54.2
82.5°	460.5	124.8	97.9	72.0	56.6	51.7	51.7	49.2	44.0	44.5	46.2
85°	231.2	85.8	73.1	55.8	44.0	41.5	41.5	39.6	34.4	34.6	36.8
87.5°	70.4	51.7	48.4	39.9	31.6	31.1	29.7	28.3	25.0	24.7	26.1
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°	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6
2.5°	1457.3	1441.6	1422.7	1380.9	1366.9	1366.0	1378.7	1365.5	1390.8	1380.1	1391.9
5°	1175.2	1159.9	1138.7	1085.4	1052.9	1030.9	1020.5	989.7	1011.9	995.7	1009.2
7.5°	864.3	867.9	853.9	822.5	751.9	716.4	695.5	676.8	693.1	691.4	717.2
10°	607.6	617.2	607.3	575.7	518.5	499.0	502.8	510.2	531.4	542.4	582.3
12.5°	437.4	436.8	430.5	402.2	364.5	366.7	382.4	395.3	414.8	426.4	467.1
15°	326.6	321.6	318.9	295.8	274.4	279.0	286.7	288.1	300.5	307.4	340.3
17.5°	246.9	249.3	252.4	235.9	219.7	216.6	210.6	203.2	206.7	208.1	224.6
20°	196.0	205.9	213.3	201.8	185.3	176.5	168.8	163.8	163.8	163.6	168.2
22.5°	171.3	178.4	186.4	178.4	163.6	155.9	151.5	147.6	147.1	147.1	151.5
25°	157.8	163.0	170.7	165.2	154.2	148.5	144.3	139.4	137.5	136.9	139.9
27.5°	151.2	153.4	157.2	152.3	143.0	140.2	139.1	134.7	132.2	130.9	133.9
30°	139.9	139.4	139.7	134.7	127.3	127.0	128.9	129.8	128.9	128.7	133.3
32.5°	129.5	128.4	128.1	123.7	116.8	115.2	116.8	118.5	120.4	123.2	128.7
35°	116.3	119.0	120.7	116.8	108.6	103.6	101.7	98.7	97.0	97.0	103.4
37.5°	105.8	112.2	114.6	111.1	102.0	95.1	91.8	91.3	91.5	92.6	98.7
40°	102.3	106.9	109.1	105.6	96.5	90.2	88.2	87.7	88.2	89.9	95.9
42.5°	100.1	103.4	103.1	98.7	91.3	86.9	85.8	85.2	85.8	87.4	94.0
45°	98.1	100.3	98.1	92.9	86.0	83.8	84.1	83.8	84.4	86.0	92.4
47.5°	96.5	97.3	94.6	89.3	82.2	81.6	82.7	83.6	84.1	85.5	92.1
50°	94.0	94.0	91.5	86.0	78.9	79.2	80.5	82.5	82.7	84.4	89.6
52.5°	91.0	90.7	89.1	83.8	76.2	77.0	77.0	79.2	79.7	81.6	87.1
55°	88.5	88.0	87.1	82.2	73.7	75.1	74.2	75.1	76.4	78.3	84.4
57.5°	86.3	85.2	85.2	80.8	71.8	72.3	70.4	71.5	73.1	74.8	81.1
60°	84.1	83.0	83.6	78.9	68.7	68.2	67.4	69.6	70.1	72.0	78.3
62.5°	81.6	80.8	81.1	76.7	66.5	65.2	65.2	67.1	67.4	70.1	76.2
65°	79.7	78.6	78.3	74.5	64.1	62.4	63.2	64.1	64.6	67.4	73.1
67.5°	77.8	75.6	75.6	72.6	61.3	59.7	61.3	61.0	61.9	64.3	69.0
70°	75.3	72.3	72.6	71.2	58.6	56.6	58.0	57.7	58.3	59.9	64.6
72.5°	71.5	69.0	69.6	69.0	55.8	53.1	53.6	53.6	53.6	55.0	59.9
75°	66.5	64.6	66.3	67.6	52.5	48.7	49.2	49.2	48.4	49.2	55.3
77.5°	60.5	59.4	64.9	63.0	48.7	44.0	44.0	43.4	41.8	42.9	49.5
80°	53.9	53.1	59.9	52.8	44.3	38.2	37.7	36.3	34.6	35.5	42.1
82.5°	47.0	46.2	50.3	40.4	38.2	31.6	30.2	27.8	26.1	26.9	33.0
85°	38.5	38.5	38.8	30.5	29.1	24.2	22.5	19.2	17.3	17.9	23.6
87.5°	27.5	28.3	26.1	20.9	17.3	13.5	12.4	10.4	8.8	10.2	12.4
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6
2.5°	1452.4	1482.6	1517.0	1560.9	1598.6	1660.5	1719.8	1755.6
5°	1085.9	1136.2	1198.9	1279.4	1354.5	1467.2	1579.1	1650.8
7.5°	777.2	831.1	898.7	999.3	1105.4	1249.2	1397.1	1482.9
10°	643.0	698.3	755.2	823.1	910.0	1066.4	1241.2	1338.0
12.5°	532.0	591.1	652.4	723.8	804.4	944.0	1145.6	1256.9
15°	407.1	473.1	545.4	635.9	736.8	898.1	1121.9	1242.9
17.5°	279.0	352.7	441.5	553.1	676.6	883.3	1164.3	1303.6
20°	192.2	245.8	340.6	471.5	619.9	881.4	1245.6	1420.2
22.5°	160.8	184.7	254.0	396.4	577.3	905.0	1371.8	1583.8
25°	148.7	163.0	202.9	331.3	546.2	959.4	1545.6	1795.4
27.5°	141.6	154.5	184.2	288.7	521.8	1022.7	1714.6	2000.5
30°	144.3	157.5	179.0	266.9	488.5	1075.5	1864.7	2160.5
32.5°	130.0	135.8	153.4	247.7	464.6	1119.7	1996.1	2293.0
35°	110.8	121.0	136.9	238.6	465.2	1149.4	2139.4	2462.4
37.5°	105.6	115.7	127.3	235.3	471.5	1181.0	2303.8	2660.9
40°	102.3	111.6	121.5	233.4	477.5	1209.9	2464.9	2857.2
42.5°	100.1	108.6	121.0	226.8	480.5	1235.7	2597.4	3024.0
45°	99.8	108.6	123.2	220.2	485.2	1263.5	2708.4	3147.5
47.5°	100.1	112.2	119.0	212.2	485.2	1310.0	2838.7	3257.7
50°	99.0	118.2	114.6	201.0	473.9	1397.9	3017.4	3405.3
52.5°	98.4	117.4	106.1	183.6	454.4	1537.6	3246.4	3608.8
55°	97.0	113.3	100.1	157.8	431.6	1689.9	3491.7	3849.3
57.5°	95.7	100.3	96.8	135.3	396.4	1797.1	3660.4	4037.1
60°	107.2	87.7	94.0	124.3	349.4	1826.5	3653.9	4111.9
62.5°	99.2	82.2	90.4	121.8	316.4	1744.0	3485.1	4071.4
65°	77.8	78.6	86.9	128.9	307.6	1525.5	3186.0	3884.8
67.5°	71.2	75.1	83.3	138.0	308.5	1221.4	2738.9	3478.2
70°	67.1	71.2	79.2	142.7	310.7	910.5	2165.5	2833.0
72.5°	62.4	66.0	74.5	143.5	296.4	661.4	1669.0	2083.0
75°	56.9	60.2	67.9	125.1	245.5	458.8	1276.7	1425.1
77.5°	50.6	53.1	59.7	96.5	182.3	293.6	958.3	1041.1
80°	43.2	44.5	50.0	70.7	124.8	183.6	758.2	835.5
82.5°	34.6	35.2	38.8	53.1	81.1	117.9	507.8	579.5
85°	24.5	24.5	26.7	38.5	55.3	74.8	275.7	305.7
87.5°	11.5	11.8	11.8	21.2	28.9	37.9	63.5	39.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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