

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: P200639

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200639
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
Description: GALLEON WALL LUMINAIRE
(1) 80 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: 4560 lumens
Efficiency: N/A
Efficacy: 77.3 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

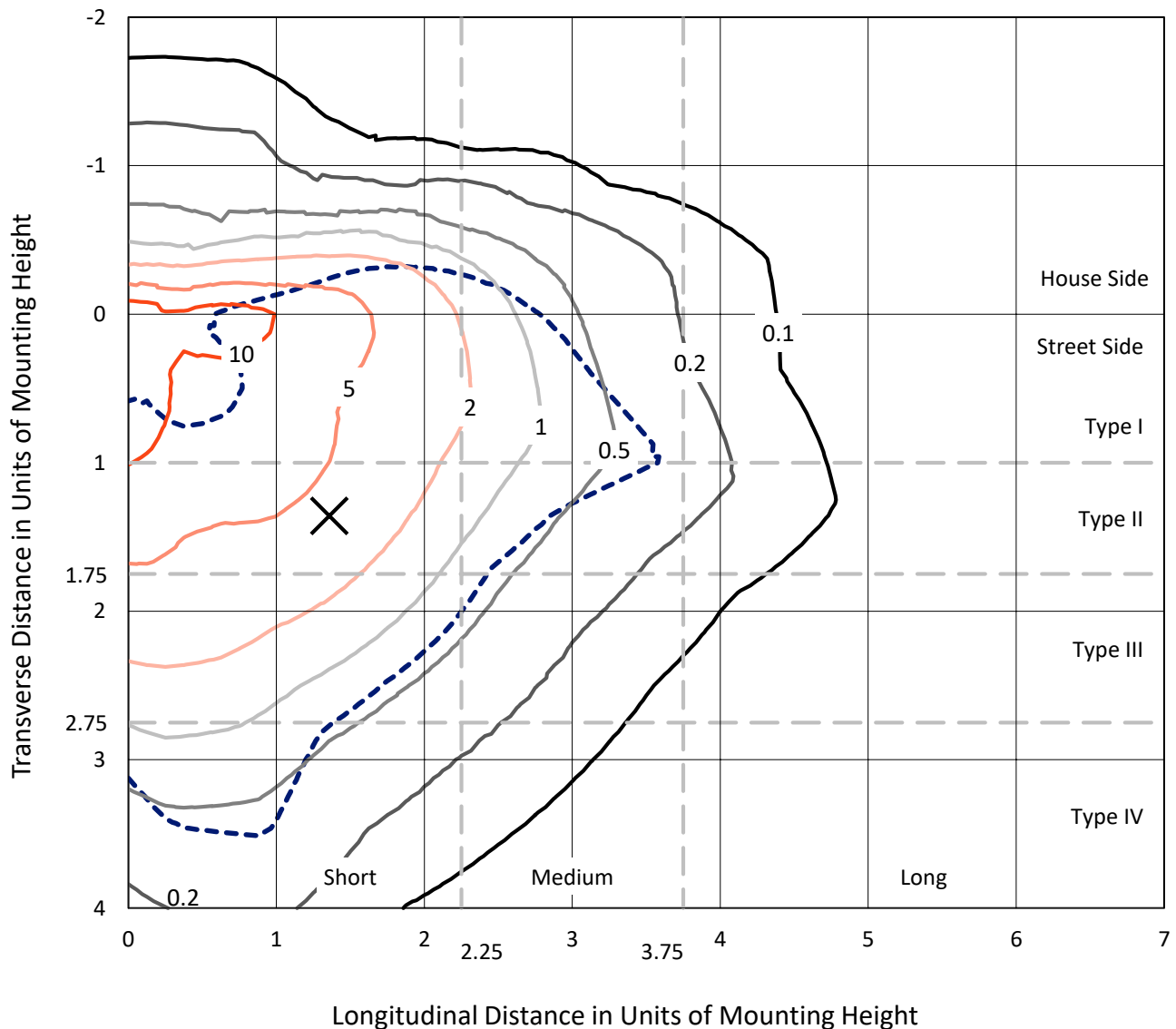


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

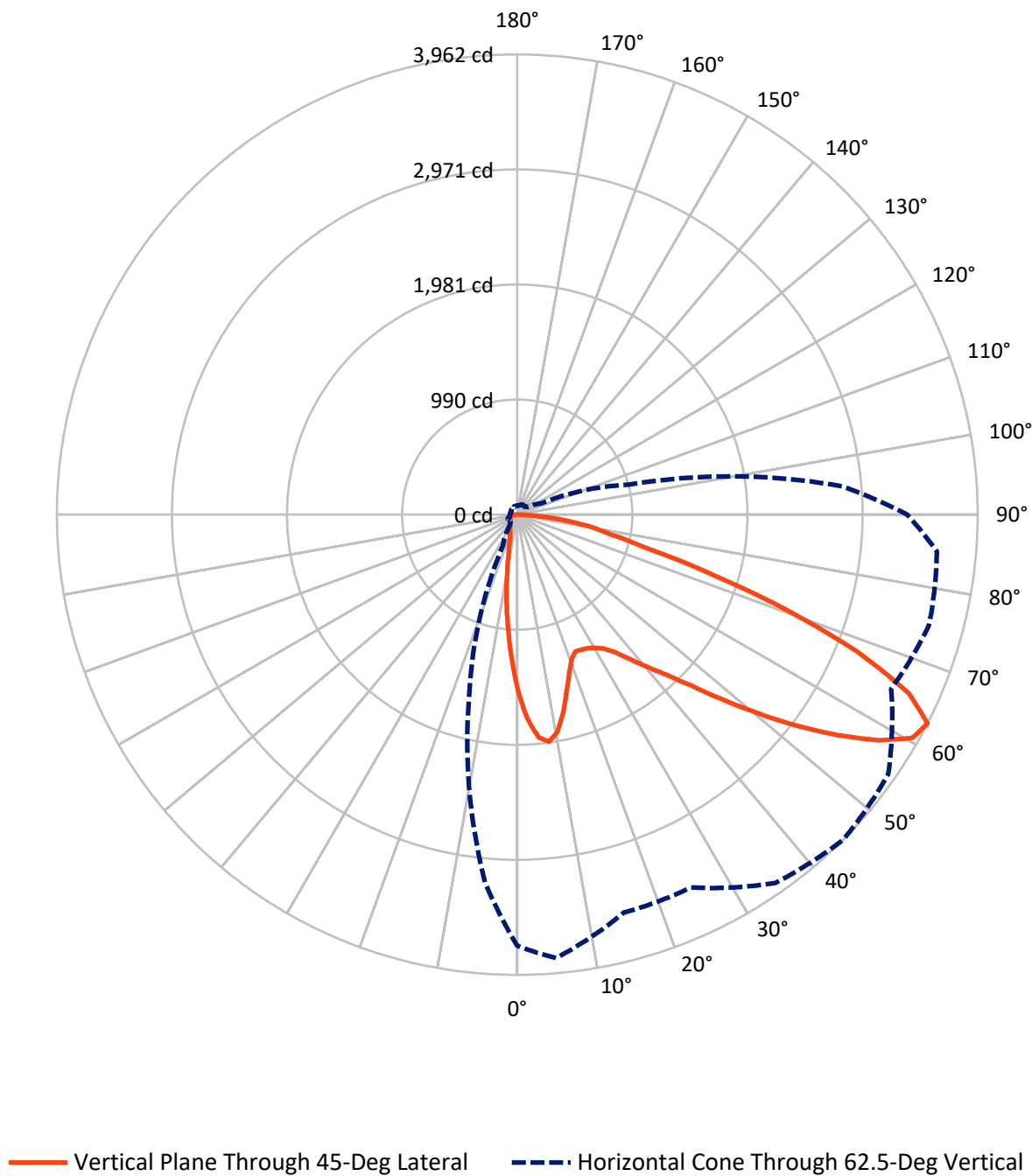


Based on 10 foot mounting height. Maximum calculated value = 18.1 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	754.6	0.0	754.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3805.4	0.0	3805.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	4560.0	0.0	4560.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	2.5
10°-20°	205.7	4.5
20°-30°	299.8	6.6
30°-40°	461.8	10.1
40°-50°	679.6	14.9
50°-60°	996.9	21.9
60°-70°	1114.4	24.4
70°-80°	545.6	12.0
80°-90°	144.0	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°	4560.0	100.0
0°-180°	4560.0	100.0

Coefficient of Utilization



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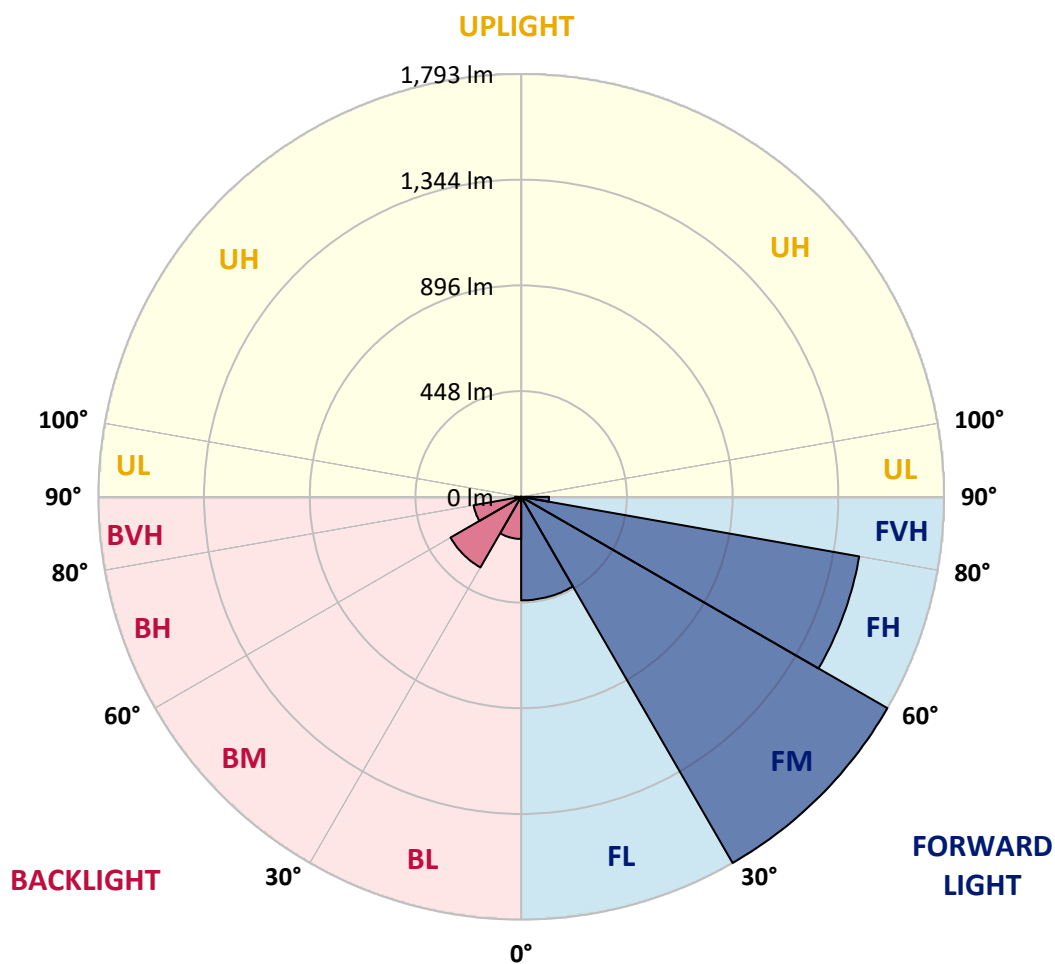
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	439.1	9.6			
FM	(30°-60°)	1792.6	39.3			
FH	(60°-80°)	1455.4	31.9			G1/1800
FVH	(80°-90°)	118.3	2.6			G2/225
BL	(0°-30°)	178.5	3.9	B1/500		
BM	(30°-60°)	345.8	7.6	B1/1000		
BH	(60°-80°)	204.6	4.5	B1/500		G1/500
BVH	(80°-90°)	25.7	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°	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6
2.5°	1600.8	1626.3	1676.2	1713.6	1758.9	1769.5	1784.0	1769.7	1744.4	1710.8	1699.8
5°	1505.3	1559.9	1681.0	1787.5	1882.3	1926.4	1938.7	1902.3	1828.9	1732.4	1673.5
7.5°	1352.1	1429.8	1593.8	1750.7	1890.3	1972.8	1970.8	1886.3	1751.2	1594.0	1499.5
10°	1220.0	1308.7	1496.7	1672.2	1820.4	1900.3	1869.5	1761.5	1600.3	1419.3	1316.8
12.5°	1146.1	1233.0	1423.8	1600.0	1723.9	1751.4	1727.9	1622.1	1470.2	1287.2	1197.4
15°	1133.3	1228.8	1394.7	1538.1	1607.5	1583.5	1555.4	1508.0	1400.7	1244.6	1151.1
17.5°	1188.7	1294.0	1428.1	1495.0	1483.2	1441.3	1433.3	1438.6	1412.8	1291.9	1184.2
20°	1295.0	1421.3	1507.5	1474.7	1388.7	1331.1	1333.1	1413.5	1490.0	1412.0	1288.9
22.5°	1444.1	1588.2	1622.1	1485.5	1348.9	1280.4	1297.0	1427.3	1613.1	1587.5	1430.3
25°	1637.1	1768.5	1744.2	1524.6	1352.9	1286.7	1300.0	1474.9	1758.4	1763.0	1605.3
27.5°	1824.1	1945.9	1846.7	1576.5	1369.4	1301.5	1319.0	1549.9	1897.3	1953.5	1805.3
30°	1970.0	2054.7	1887.3	1623.8	1402.0	1330.3	1352.1	1621.1	1960.5	2082.1	1959.2
32.5°	2090.8	2151.7	1952.0	1682.5	1461.9	1375.7	1414.0	1707.6	2051.5	2204.4	2109.9
35°	2245.2	2262.5	2032.4	1747.9	1554.4	1454.6	1502.3	1792.3	2138.2	2328.0	2258.3
37.5°	2426.2	2403.9	2108.4	1837.4	1674.0	1578.2	1617.6	1885.3	2209.7	2468.1	2409.9
40°	2605.2	2551.6	2203.6	1976.3	1848.4	1723.9	1770.5	1984.5	2276.3	2608.5	2558.1
42.5°	2757.4	2677.9	2297.6	2128.9	2010.9	1884.5	1940.2	2084.6	2340.0	2728.3	2686.7
45°	2869.9	2771.1	2387.1	2275.6	2234.7	2098.1	2124.4	2199.1	2408.9	2828.3	2792.5
47.5°	2970.4	2864.9	2488.4	2423.5	2430.5	2375.8	2333.5	2332.5	2490.1	2910.0	2892.5
50°	3105.0	2995.0	2597.2	2575.9	2724.3	2687.9	2594.4	2488.1	2592.9	3002.8	3000.8
52.5°	3290.5	3201.0	2730.0	2740.1	2998.5	3022.3	2906.5	2675.1	2753.9	3173.0	3160.9
55°	3509.9	3457.7	2911.0	2928.8	3334.9	3352.0	3236.9	2909.0	2990.5	3419.4	3386.0
57.5°	3681.1	3670.0	3109.6	3155.4	3586.1	3662.8	3557.0	3179.7	3257.2	3626.9	3543.2
60°	3749.3	3802.7	3320.9	3384.0	3818.4	3903.4	3810.7	3417.6	3493.6	3712.9	3532.4
62.5°	3712.4	3831.7	3546.0	3540.7	3870.3	3961.8	3896.7	3550.0	3668.8	3624.2	3353.7
65°	3542.2	3727.2	3676.6	3500.3	3692.9	3700.4	3679.3	3490.8	3710.2	3343.7	3008.3
67.5°	3171.5	3437.7	3504.6	3154.4	3214.1	3165.2	3129.9	3167.0	3494.6	2923.3	2528.3
70°	2583.1	2983.7	3015.8	2523.0	2495.9	2463.1	2392.6	2596.4	3069.2	2395.9	2006.1
72.5°	1899.3	2320.4	2419.0	1850.4	1725.1	1731.9	1676.2	1956.7	2495.4	1779.8	1497.7
75°	1299.5	1680.2	1892.6	1291.2	1140.8	1143.6	1136.5	1386.5	1987.6	1238.1	1120.7
77.5°	949.3	1200.5	1427.3	868.1	842.8	827.2	823.4	970.1	1523.8	898.9	870.3
80°	761.8	886.9	958.8	601.6	647.0	645.7	624.9	667.0	995.2	657.5	651.0
82.5°	528.4	681.6	776.8	471.5	436.7	429.4	434.4	496.8	703.4	449.5	427.4
85°	278.7	452.7	769.3	417.9	259.2	206.8	257.2	406.8	609.4	238.1	208.6
87.5°	35.6	130.8	509.4	166.7	102.3	55.1	122.1	229.1	391.3	48.6	42.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6
2.5°	1671.5	1638.1	1594.5	1554.1	1512.3	1470.7	1416.3	1382.2	1358.6	1354.1	1344.1
5°	1630.9	1520.1	1436.3	1363.9	1298.2	1205.5	1154.1	1111.5	1088.7	1086.4	1080.9
7.5°	1443.6	1290.7	1177.6	1075.1	982.1	907.2	824.5	785.8	770.1	773.8	777.6
10°	1248.8	1077.9	948.0	843.3	761.3	698.1	631.7	586.8	555.7	549.5	548.2
12.5°	1106.5	919.0	792.9	718.9	655.5	596.1	525.7	472.8	432.4	418.6	409.3
15°	1046.3	841.2	709.1	629.4	559.5	484.0	418.6	363.2	326.1	314.1	307.3
17.5°	1059.1	819.7	651.5	549.5	460.0	381.3	298.8	251.4	229.1	223.3	223.3
20°	1126.3	815.7	603.9	475.8	364.2	273.0	205.3	178.2	171.0	170.2	172.2
22.5°	1220.5	829.7	568.3	411.8	283.0	199.3	159.9	149.9	146.6	147.4	149.6
25°	1360.9	877.1	542.4	354.9	222.1	163.2	142.6	136.6	135.1	137.1	139.9
27.5°	1527.3	924.5	526.4	312.1	187.5	149.1	135.6	129.3	130.3	132.9	135.4
30°	1673.5	963.3	501.1	281.5	176.7	149.9	135.6	127.1	126.1	126.6	127.3
32.5°	1804.6	989.6	471.5	252.4	152.4	133.1	126.6	125.3	119.8	117.8	118.1
35°	1917.6	989.6	453.7	235.4	136.6	118.1	107.5	101.3	98.5	98.8	101.5
37.5°	2026.7	969.8	444.9	225.9	128.1	112.3	103.0	97.5	93.8	93.0	93.5
40°	2122.9	941.0	434.9	221.8	121.6	108.8	100.0	95.5	91.5	90.2	90.5
42.5°	2200.1	917.7	423.9	216.6	117.6	106.3	98.0	94.0	89.5	88.2	88.0
45°	2283.6	909.9	409.3	206.1	119.6	106.5	97.5	93.2	88.7	87.2	86.7
47.5°	2393.6	934.2	394.3	193.5	123.8	107.8	98.3	93.2	88.5	87.2	86.7
50°	2532.3	991.4	375.3	175.2	119.6	111.3	98.0	92.5	88.5	87.2	86.2
52.5°	2710.2	1068.6	350.2	154.2	117.1	119.8	97.5	91.0	87.2	85.5	83.7
55°	2926.6	1131.8	320.4	136.9	111.3	117.6	96.8	89.2	85.2	82.7	81.2
57.5°	3085.0	1154.6	282.0	125.6	103.3	113.8	95.8	87.0	82.7	80.7	78.7
60°	3053.7	1110.5	249.7	118.6	98.5	102.8	95.0	85.0	80.5	79.0	77.2
62.5°	2802.7	995.2	228.9	115.3	95.5	93.8	95.8	83.0	78.5	77.0	76.5
65°	2426.5	825.0	220.6	114.6	93.0	88.5	89.0	80.7	76.2	75.0	74.4
67.5°	2001.6	665.8	213.3	117.1	89.7	84.7	82.2	77.7	73.9	72.7	71.7
70°	1578.5	553.7	210.1	115.6	85.7	81.0	78.2	74.4	71.2	69.9	69.2
72.5°	1271.1	467.7	208.3	114.1	80.5	76.0	73.4	70.2	66.7	66.2	65.4
75°	1075.6	367.7	190.8	109.3	74.4	69.9	68.2	65.2	61.7	61.7	61.2
77.5°	829.7	266.0	158.7	96.8	68.2	63.2	61.7	59.4	55.4	56.1	55.9
80°	612.9	173.5	124.1	80.2	60.4	55.6	54.9	52.6	48.4	49.4	49.4
82.5°	419.9	113.8	89.2	65.7	51.6	47.1	47.1	44.9	40.1	40.6	42.1
85°	210.8	78.2	66.7	50.9	40.1	37.9	37.9	36.1	31.3	31.6	33.6
87.5°	64.2	47.1	44.1	36.3	28.8	28.3	27.1	25.8	22.8	22.6	23.8
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6
2.5°	1328.8	1314.5	1297.2	1259.1	1246.3	1245.6	1257.1	1245.1	1268.1	1258.4	1269.1
5°	1071.6	1057.6	1038.3	989.6	960.1	940.0	930.5	902.4	922.7	907.9	920.2
7.5°	788.1	791.4	778.6	750.0	685.6	653.2	634.2	617.1	631.9	630.4	654.0
10°	554.0	562.8	553.7	524.9	472.8	455.0	458.5	465.2	484.5	494.6	530.9
12.5°	398.8	398.3	392.5	366.7	332.4	334.4	348.7	360.5	378.3	388.8	425.9
15°	297.8	293.3	290.8	269.7	250.2	254.4	261.4	262.7	274.0	280.2	310.3
17.5°	225.1	227.4	230.1	215.1	200.3	197.5	192.0	185.2	188.5	189.8	204.8
20°	178.7	187.8	194.5	184.0	169.0	160.9	153.9	149.4	149.4	149.1	153.4
22.5°	156.2	162.7	170.0	162.7	149.1	142.1	138.1	134.6	134.1	134.1	138.1
25°	143.9	148.6	155.7	150.7	140.6	135.4	131.6	127.1	125.3	124.8	127.6
27.5°	137.9	139.9	143.4	138.9	130.3	127.8	126.8	122.8	120.6	119.3	122.1
30°	127.6	127.1	127.3	122.8	116.1	115.8	117.6	118.3	117.6	117.3	121.6
32.5°	118.1	117.1	116.8	112.8	106.5	105.0	106.5	108.0	109.8	112.3	117.3
35°	106.0	108.5	110.0	106.5	99.0	94.5	92.7	90.0	88.5	88.5	94.3
37.5°	96.5	102.3	104.5	101.3	93.0	86.7	83.7	83.2	83.5	84.5	90.0
40°	93.2	97.5	99.5	96.3	88.0	82.2	80.5	80.0	80.5	82.0	87.5
42.5°	91.2	94.3	94.0	90.0	83.2	79.2	78.2	77.7	78.2	79.7	85.7
45°	89.5	91.5	89.5	84.7	78.5	76.5	76.7	76.5	77.0	78.5	84.2
47.5°	88.0	88.7	86.2	81.5	75.0	74.4	75.5	76.2	76.7	78.0	84.0
50°	85.7	85.7	83.5	78.5	71.9	72.2	73.4	75.2	75.5	77.0	81.7
52.5°	83.0	82.7	81.2	76.5	69.4	70.2	70.2	72.2	72.7	74.4	79.5
55°	80.7	80.2	79.5	75.0	67.2	68.4	67.7	68.4	69.7	71.4	77.0
57.5°	78.7	77.7	77.7	73.7	65.4	65.9	64.2	65.2	66.7	68.2	73.9
60°	76.7	75.7	76.2	71.9	62.7	62.2	61.4	63.4	63.9	65.7	71.4
62.5°	74.4	73.7	73.9	69.9	60.7	59.4	59.4	61.2	61.4	63.9	69.4
65°	72.7	71.7	71.4	67.9	58.4	56.9	57.7	58.4	58.9	61.4	66.7
67.5°	70.9	68.9	68.9	66.2	55.9	54.4	55.9	55.6	56.4	58.7	62.9
70°	68.7	65.9	66.2	64.9	53.4	51.6	52.9	52.6	53.1	54.6	58.9
72.5°	65.2	62.9	63.4	62.9	50.9	48.4	48.9	48.9	48.9	50.1	54.6
75°	60.7	58.9	60.4	61.7	47.9	44.4	44.9	44.9	44.1	44.9	50.4
77.5°	55.1	54.1	59.2	57.4	44.4	40.1	40.1	39.6	38.1	39.1	45.1
80°	49.1	48.4	54.6	48.1	40.4	34.8	34.3	33.1	31.6	32.3	38.4
82.5°	42.9	42.1	45.9	36.8	34.8	28.8	27.6	25.3	23.8	24.6	30.1
85°	35.1	35.1	35.3	27.8	26.6	22.1	20.6	17.5	15.8	16.3	21.6
87.5°	25.1	25.8	23.8	19.1	15.8	12.3	11.3	9.5	8.0	9.3	11.3
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°	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6	1540.6
2.5°	1324.3	1351.9	1383.2	1423.3	1457.6	1514.0	1568.2	1600.8
5°	990.1	1036.0	1093.2	1166.6	1235.0	1337.8	1439.8	1505.3
7.5°	708.6	757.8	819.4	911.2	1007.9	1139.0	1273.9	1352.1
10°	586.3	636.7	688.6	750.5	829.7	972.3	1131.8	1220.0
12.5°	485.0	538.9	594.8	660.0	733.5	860.8	1044.5	1146.1
15°	371.2	431.4	497.3	579.8	671.8	818.9	1023.0	1133.3
17.5°	254.4	321.6	402.6	504.3	616.9	805.4	1061.6	1188.7
20°	175.2	224.1	310.6	429.9	565.3	803.6	1135.8	1295.0
22.5°	146.6	168.4	231.6	361.5	526.4	825.2	1250.8	1444.1
25°	135.6	148.6	185.0	302.1	498.1	874.8	1409.3	1637.1
27.5°	129.1	140.9	167.9	263.2	475.8	932.5	1563.4	1824.1
30°	131.6	143.6	163.2	243.4	445.4	980.6	1700.3	1970.0
32.5°	118.6	123.8	139.9	225.9	423.6	1021.0	1820.1	2090.8
35°	101.0	110.3	124.8	217.6	424.1	1048.0	1950.7	2245.2
37.5°	96.3	105.5	116.1	214.6	429.9	1076.9	2100.6	2426.2
40°	93.2	101.8	110.8	212.8	435.4	1103.2	2247.5	2605.2
42.5°	91.2	99.0	110.3	206.8	438.2	1126.8	2368.3	2757.4
45°	91.0	99.0	112.3	200.8	442.4	1152.1	2469.6	2869.9
47.5°	91.2	102.3	108.5	193.5	442.4	1194.4	2588.4	2970.4
50°	90.2	107.8	104.5	183.2	432.2	1274.7	2751.3	3105.0
52.5°	89.7	107.0	96.8	167.4	414.4	1402.0	2960.2	3290.5
55°	88.5	103.3	91.2	143.9	393.6	1540.9	3183.8	3509.9
57.5°	87.2	91.5	88.2	123.3	361.5	1638.6	3337.7	3681.1
60°	97.8	80.0	85.7	113.3	318.6	1665.4	3331.6	3749.3
62.5°	90.5	75.0	82.5	111.0	288.5	1590.2	3177.7	3712.4
65°	70.9	71.7	79.2	117.6	280.5	1391.0	2905.0	3542.2
67.5°	64.9	68.4	76.0	125.8	281.3	1113.7	2497.4	3171.5
70°	61.2	64.9	72.2	130.1	283.3	830.2	1974.5	2583.1
72.5°	56.9	60.2	67.9	130.8	270.2	603.1	1521.8	1899.3
75°	51.9	54.9	61.9	114.1	223.8	418.4	1164.1	1299.5
77.5°	46.1	48.4	54.4	88.0	166.2	267.7	873.8	949.3
80°	39.4	40.6	45.6	64.4	113.8	167.4	691.3	761.8
82.5°	31.6	32.1	35.3	48.4	73.9	107.5	463.0	528.4
85°	22.3	22.3	24.3	35.1	50.4	68.2	251.4	278.7
87.5°	10.5	10.8	10.8	19.3	26.3	34.6	57.9	35.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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