

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: P200637

Luminaire Tested: **GWC-AF-01-LED-E1-SLL-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200637
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-8030-800
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 3000K, 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: 3684 lumens
Efficiency: N/A
Efficacy: 83.7 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 - G1

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

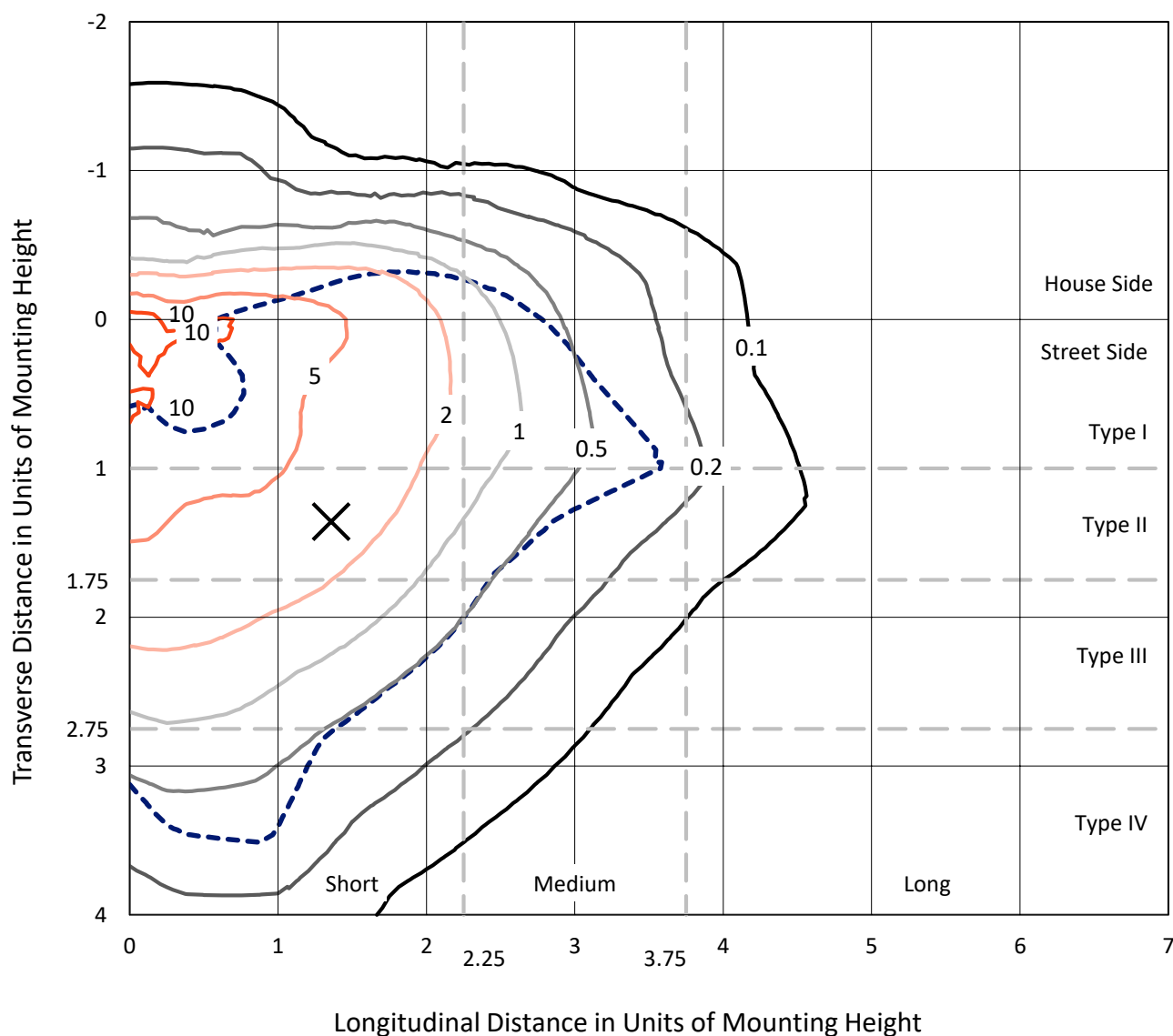


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

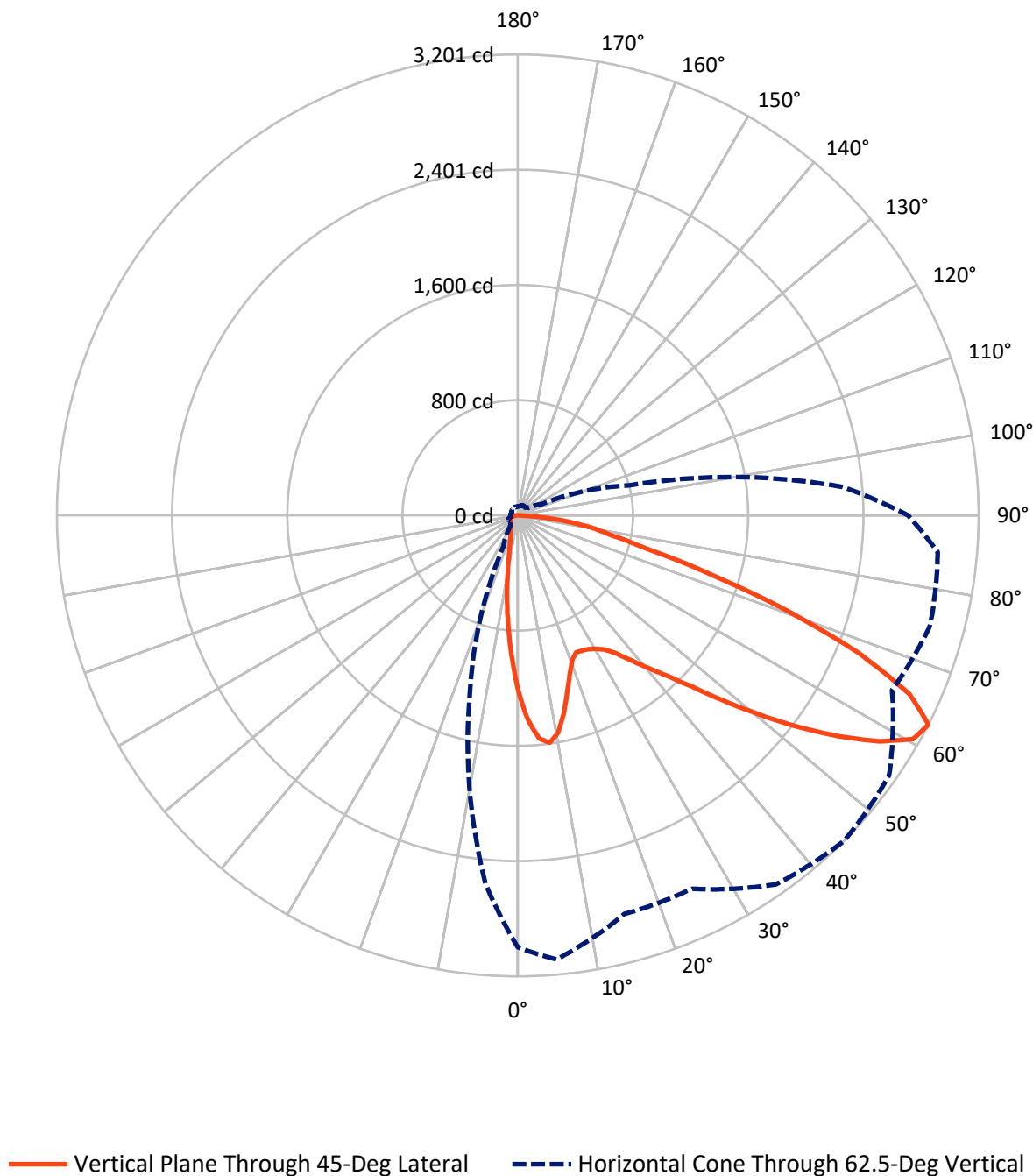


Based on 10 foot mounting height. Maximum calculated value = 14.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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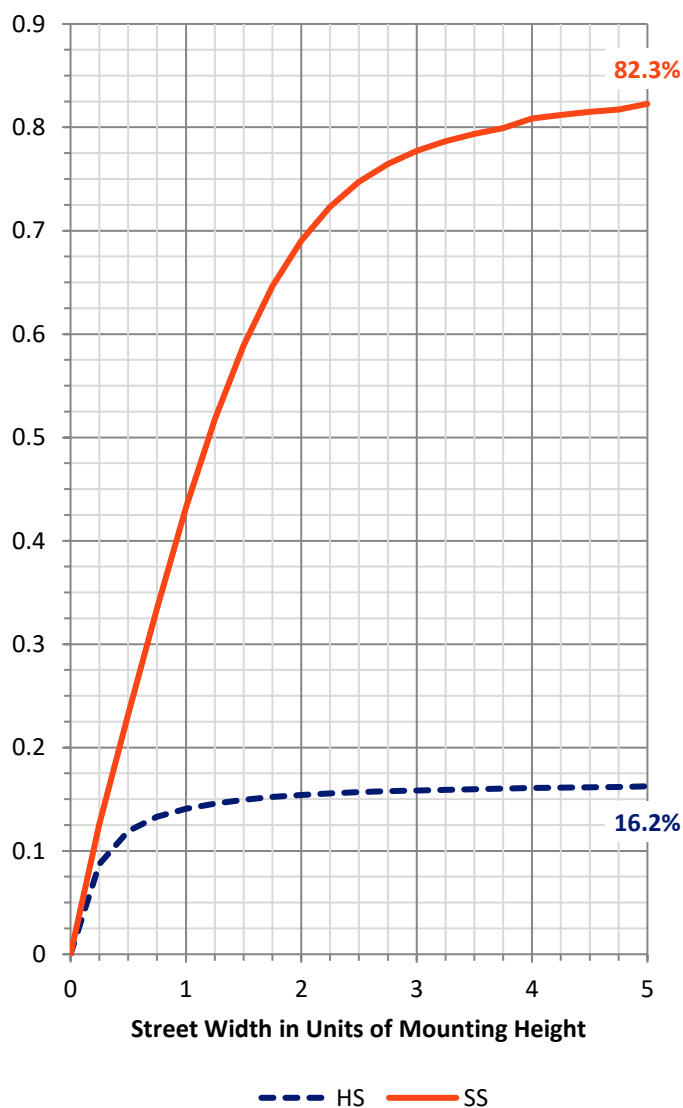
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	609.7	0.0	609.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3074.3	0.0	3074.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	3684.0	0.0	3684.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	2.5
10°-20°	166.1	4.5
20°-30°	242.2	6.6
30°-40°	373.1	10.1
40°-50°	549.1	14.9
50°-60°	805.4	21.9
60°-70°	900.3	24.4
70°-80°	440.8	12.0
80°-90°	116.4	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°	3684.0	100.0
0°-180°	3684.0	100.0

Coefficient of Utilization



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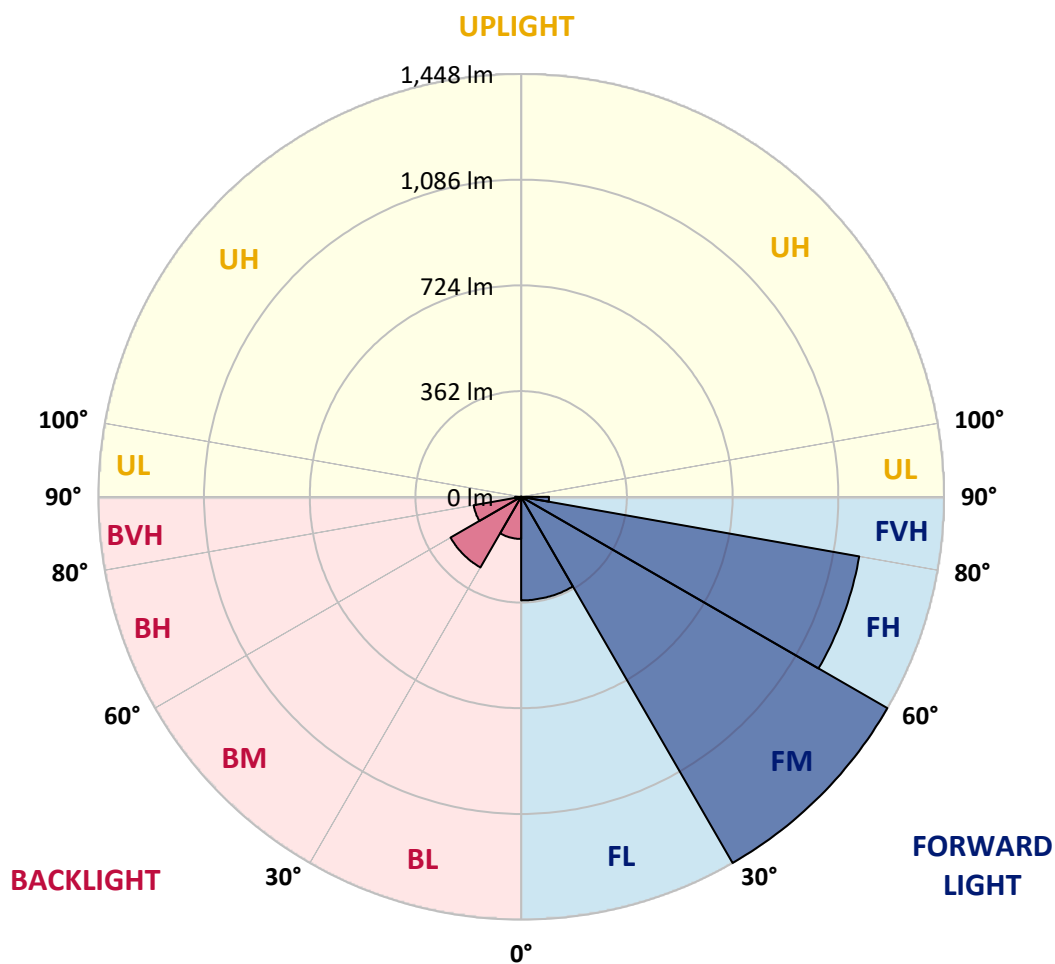
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.8	9.6			
FM	(30°-60°)	1448.2	39.3			
FH	(60°-80°)	1175.8	31.9			G1/1800
FVH	(80°-90°)	95.6	2.6			G1/100
BL	(0°-30°)	144.2	3.9	B1/500		
BM	(30°-60°)	279.3	7.6	B1/1000		
BH	(60°-80°)	165.3	4.5	B1/500		G1/500
BVH	(80°-90°)	20.8	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-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7
2.5°	1293.3	1313.9	1354.2	1384.4	1421.0	1429.5	1441.3	1429.8	1409.3	1382.2	1373.3
5°	1216.1	1260.2	1358.1	1444.1	1520.7	1556.3	1566.2	1536.9	1477.5	1399.6	1352.0
7.5°	1092.4	1155.1	1287.6	1414.4	1527.2	1593.8	1592.2	1523.9	1414.8	1287.8	1211.4
10°	985.6	1057.3	1209.2	1351.0	1470.7	1535.3	1510.4	1423.1	1292.9	1146.6	1063.8
12.5°	925.9	996.2	1150.3	1292.6	1392.7	1415.0	1395.9	1310.5	1187.7	1039.9	967.4
15°	915.6	992.7	1126.8	1242.6	1298.7	1279.3	1256.6	1218.3	1131.7	1005.5	929.9
17.5°	960.3	1045.4	1153.7	1207.8	1198.3	1164.5	1158.0	1162.2	1141.4	1043.8	956.7
20°	1046.2	1148.3	1217.9	1191.4	1121.9	1075.4	1077.0	1142.0	1203.7	1140.8	1041.3
22.5°	1166.7	1283.1	1310.5	1200.1	1089.7	1034.4	1047.8	1153.1	1303.2	1282.5	1155.5
25°	1322.6	1428.7	1409.1	1231.7	1093.0	1039.5	1050.2	1191.6	1420.6	1424.3	1296.9
27.5°	1473.7	1572.1	1491.9	1273.6	1106.3	1051.5	1065.6	1252.1	1532.8	1578.2	1458.5
30°	1591.6	1660.0	1524.7	1311.9	1132.7	1074.7	1092.4	1309.7	1583.9	1682.1	1582.9
32.5°	1689.2	1738.4	1577.0	1359.3	1181.1	1111.4	1142.4	1379.5	1657.4	1780.9	1704.6
35°	1813.9	1827.9	1642.0	1412.1	1255.8	1175.2	1213.7	1448.0	1727.4	1880.8	1824.5
37.5°	1960.1	1942.1	1703.3	1484.4	1352.4	1275.0	1306.8	1523.1	1785.2	1994.0	1947.0
40°	2104.7	2061.4	1780.3	1596.6	1493.3	1392.7	1430.4	1603.3	1839.0	2107.4	2066.7
42.5°	2227.7	2163.5	1856.2	1720.0	1624.6	1522.5	1567.5	1684.1	1890.5	2204.2	2170.5
45°	2318.6	2238.8	1928.5	1838.4	1805.4	1695.0	1716.3	1776.7	1946.2	2285.0	2256.0
47.5°	2399.8	2314.5	2010.4	1957.9	1963.6	1919.4	1885.2	1884.4	2011.8	2351.0	2336.8
50°	2508.5	2419.6	2098.3	2081.0	2200.9	2171.6	2096.0	2010.2	2094.8	2425.9	2424.3
52.5°	2658.4	2586.1	2205.6	2213.7	2422.5	2441.7	2348.2	2161.2	2224.8	2563.4	2553.7
55°	2835.6	2793.5	2351.8	2366.2	2694.3	2708.0	2615.1	2350.2	2416.0	2762.5	2735.6
57.5°	2973.9	2965.0	2512.2	2549.3	2897.2	2959.1	2873.7	2568.9	2631.5	2930.2	2862.5
60°	3029.0	3072.1	2682.9	2733.9	3084.9	3153.6	3078.6	2761.1	2822.4	2999.6	2853.8
62.5°	2999.2	3095.6	2864.8	2860.5	3126.8	3200.7	3148.1	2868.0	2964.0	2928.0	2709.4
65°	2861.7	3011.2	2970.3	2827.9	2983.4	2989.5	2972.5	2820.2	2997.4	2701.3	2430.4
67.5°	2562.2	2777.3	2831.4	2548.4	2596.6	2557.1	2528.6	2558.6	2823.3	2361.7	2042.6
70°	2086.9	2410.5	2436.5	2038.3	2016.4	1989.9	1933.0	2097.6	2479.6	1935.6	1620.7
72.5°	1534.5	1874.7	1954.3	1495.0	1393.7	1399.2	1354.2	1580.8	2016.0	1437.9	1210.0
75°	1049.8	1357.5	1529.0	1043.2	921.6	923.9	918.2	1120.1	1605.7	1000.2	905.4
77.5°	766.9	969.8	1153.1	701.3	680.9	668.3	665.3	783.7	1231.1	726.2	703.1
80°	615.4	716.5	774.6	486.0	522.7	521.7	504.9	538.9	804.0	531.2	525.9
82.5°	426.9	550.6	627.6	380.9	352.8	346.9	351.0	401.4	568.3	363.1	345.3
85°	225.2	365.7	621.5	337.6	209.4	167.1	207.8	328.7	492.3	192.4	168.5
87.5°	28.8	105.7	411.5	134.7	82.6	44.6	98.6	185.1	316.1	39.3	34.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7
2.5°	1350.4	1323.4	1288.2	1255.6	1221.8	1188.2	1144.2	1116.7	1097.6	1094.0	1085.9
5°	1317.6	1228.0	1160.4	1101.9	1048.8	973.9	932.4	897.9	879.5	877.7	873.2
7.5°	1166.3	1042.7	951.4	868.6	793.5	732.9	666.1	634.9	622.1	625.2	628.2
10°	1008.9	870.8	765.9	681.3	615.0	564.0	510.3	474.1	449.0	443.9	442.9
12.5°	893.9	742.4	640.6	580.8	529.6	481.6	424.7	381.9	349.3	338.2	330.7
15°	845.3	679.6	572.9	508.5	452.0	391.1	338.2	293.4	263.5	253.8	248.3
17.5°	855.6	662.2	526.3	443.9	371.6	308.0	241.4	203.1	185.1	180.4	180.4
20°	909.9	659.0	487.9	384.4	294.3	220.5	165.9	144.0	138.1	137.5	139.1
22.5°	986.0	670.3	459.1	332.7	228.6	161.0	129.2	121.1	118.5	119.1	120.9
25°	1099.5	708.6	438.2	286.8	179.4	131.8	115.2	110.4	109.2	110.8	113.0
27.5°	1233.9	746.9	425.3	252.1	151.5	120.5	109.6	104.5	105.3	107.3	109.4
30°	1352.0	778.3	404.8	227.4	142.8	121.1	109.6	102.7	101.9	102.3	102.9
32.5°	1457.9	799.5	380.9	203.9	123.1	107.5	102.3	101.3	96.8	95.2	95.4
35°	1549.2	799.5	366.6	190.2	110.4	95.4	86.9	81.8	79.6	79.8	82.0
37.5°	1637.3	783.5	359.5	182.5	103.5	90.7	83.2	78.8	75.7	75.1	75.5
40°	1715.1	760.2	351.4	179.2	98.2	87.9	80.8	77.2	73.9	72.9	73.1
42.5°	1777.5	741.4	342.5	175.0	95.0	85.9	79.2	75.9	72.3	71.3	71.1
45°	1844.9	735.1	330.7	166.5	96.6	86.1	78.8	75.3	71.7	70.5	70.1
47.5°	1933.8	754.8	318.6	156.3	100.0	87.1	79.4	75.3	71.5	70.5	70.1
50°	2045.8	800.9	303.2	141.6	96.6	89.9	79.2	74.7	71.5	70.5	69.7
52.5°	2189.6	863.3	282.9	124.5	94.6	96.8	78.8	73.5	70.5	69.1	67.6
55°	2364.4	914.4	258.8	110.6	89.9	95.0	78.2	72.1	68.9	66.8	65.6
57.5°	2492.3	932.8	227.8	101.5	83.4	91.9	77.4	70.3	66.8	65.2	63.6
60°	2467.0	897.1	201.7	95.8	79.6	83.0	76.8	68.7	65.0	63.8	62.4
62.5°	2264.3	804.0	184.9	93.2	77.2	75.7	77.4	67.0	63.4	62.2	61.8
65°	1960.3	666.5	178.2	92.5	75.1	71.5	71.9	65.2	61.6	60.6	60.1
67.5°	1617.1	537.9	172.3	94.6	72.5	68.4	66.4	62.8	59.7	58.7	57.9
70°	1275.2	447.4	169.7	93.4	69.3	65.4	63.2	60.1	57.5	56.5	55.9
72.5°	1027.0	377.9	168.3	92.1	65.0	61.4	59.3	56.7	53.9	53.5	52.9
75°	869.0	297.1	154.1	88.3	60.1	56.5	55.1	52.7	49.8	49.8	49.4
77.5°	670.3	214.9	128.2	78.2	55.1	51.0	49.8	48.0	44.8	45.4	45.2
80°	495.1	140.1	100.2	64.8	48.8	45.0	44.4	42.5	39.1	39.9	39.9
82.5°	339.2	91.9	72.1	53.1	41.7	38.1	38.1	36.3	32.4	32.8	34.0
85°	170.3	63.2	53.9	41.1	32.4	30.6	30.6	29.2	25.3	25.5	27.1
87.5°	51.8	38.1	35.6	29.4	23.3	22.9	21.9	20.9	18.4	18.2	19.2
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7
2.5°	1073.5	1062.0	1048.0	1017.2	1006.9	1006.3	1015.6	1005.9	1024.5	1016.6	1025.3
5°	865.7	854.4	838.8	799.5	775.6	759.4	751.7	729.1	745.5	733.5	743.4
7.5°	636.7	639.3	629.0	605.9	553.9	527.8	512.4	498.6	510.5	509.3	528.4
10°	447.6	454.6	447.4	424.1	381.9	367.6	370.4	375.9	391.5	399.6	428.9
12.5°	322.2	321.8	317.1	296.3	268.5	270.2	281.7	291.2	305.6	314.1	344.1
15°	240.6	236.9	234.9	217.9	202.1	205.6	211.2	212.2	221.3	226.4	250.7
17.5°	181.9	183.7	185.9	173.8	161.8	159.6	155.1	149.7	152.3	153.3	165.5
20°	144.4	151.7	157.2	148.6	136.5	130.0	124.3	120.7	120.7	120.5	123.9
22.5°	126.2	131.4	137.3	131.4	120.5	114.8	111.6	108.8	108.3	108.3	111.6
25°	116.2	120.1	125.8	121.7	113.6	109.4	106.3	102.7	101.3	100.9	103.1
27.5°	111.4	113.0	115.8	112.2	105.3	103.3	102.5	99.2	97.4	96.4	98.6
30°	103.1	102.7	102.9	99.2	93.8	93.6	95.0	95.6	95.0	94.8	98.2
32.5°	95.4	94.6	94.4	91.1	86.1	84.9	86.1	87.3	88.7	90.7	94.8
35°	85.7	87.7	88.9	86.1	80.0	76.3	74.9	72.7	71.5	71.5	76.1
37.5°	78.0	82.6	84.4	81.8	75.1	70.1	67.6	67.2	67.4	68.2	72.7
40°	75.3	78.8	80.4	77.8	71.1	66.4	65.0	64.6	65.0	66.2	70.7
42.5°	73.7	76.1	75.9	72.7	67.2	64.0	63.2	62.8	63.2	64.4	69.3
45°	72.3	73.9	72.3	68.4	63.4	61.8	62.0	61.8	62.2	63.4	68.0
47.5°	71.1	71.7	69.7	65.8	60.6	60.1	61.0	61.6	62.0	63.0	67.8
50°	69.3	69.3	67.4	63.4	58.1	58.3	59.3	60.8	61.0	62.2	66.0
52.5°	67.0	66.8	65.6	61.8	56.1	56.7	56.7	58.3	58.7	60.1	64.2
55°	65.2	64.8	64.2	60.6	54.3	55.3	54.7	55.3	56.3	57.7	62.2
57.5°	63.6	62.8	62.8	59.5	52.9	53.3	51.8	52.7	53.9	55.1	59.7
60°	62.0	61.2	61.6	58.1	50.6	50.2	49.6	51.2	51.6	53.1	57.7
62.5°	60.1	59.5	59.7	56.5	49.0	48.0	48.0	49.4	49.6	51.6	56.1
65°	58.7	57.9	57.7	54.9	47.2	46.0	46.6	47.2	47.6	49.6	53.9
67.5°	57.3	55.7	55.7	53.5	45.2	43.9	45.2	45.0	45.6	47.4	50.8
70°	55.5	53.3	53.5	52.5	43.1	41.7	42.7	42.5	42.9	44.1	47.6
72.5°	52.7	50.8	51.2	50.8	41.1	39.1	39.5	39.5	39.5	40.5	44.1
75°	49.0	47.6	48.8	49.8	38.7	35.8	36.3	36.3	35.6	36.3	40.7
77.5°	44.6	43.7	47.8	46.4	35.8	32.4	32.4	32.0	30.8	31.6	36.5
80°	39.7	39.1	44.1	38.9	32.6	28.1	27.7	26.7	25.5	26.1	31.0
82.5°	34.6	34.0	37.1	29.8	28.1	23.3	22.3	20.5	19.2	19.8	24.3
85°	28.4	28.4	28.6	22.5	21.5	17.8	16.6	14.2	12.8	13.2	17.4
87.5°	20.3	20.9	19.2	15.4	12.8	9.9	9.1	7.7	6.5	7.5	9.1
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°	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7
2.5°	1069.9	1092.2	1117.5	1149.9	1177.6	1223.2	1266.9	1293.3
5°	799.9	837.0	883.2	942.5	997.8	1080.8	1163.2	1216.1
7.5°	572.5	612.2	662.0	736.1	814.3	920.2	1029.2	1092.4
10°	473.7	514.4	556.3	606.3	670.3	785.6	914.4	985.6
12.5°	391.9	435.4	480.6	533.2	592.6	695.4	843.9	925.9
15°	299.9	348.5	401.8	468.4	542.7	661.6	826.5	915.6
17.5°	205.6	259.8	325.2	407.5	498.4	650.7	857.6	960.3
20°	141.6	181.0	250.9	347.3	456.7	649.3	917.6	1046.2
22.5°	118.5	136.1	187.1	292.0	425.3	666.7	1010.5	1166.7
25°	109.6	120.1	149.5	244.0	402.4	706.8	1138.5	1322.6
27.5°	104.3	113.8	135.7	212.6	384.4	753.4	1263.1	1473.7
30°	106.3	116.0	131.8	196.6	359.9	792.2	1373.7	1591.6
32.5°	95.8	100.0	113.0	182.5	342.2	824.8	1470.5	1689.2
35°	81.6	89.1	100.9	175.8	342.7	846.7	1576.0	1813.9
37.5°	77.8	85.3	93.8	173.4	347.3	870.0	1697.1	1960.1
40°	75.3	82.2	89.5	171.9	351.8	891.3	1815.7	2104.7
42.5°	73.7	80.0	89.1	167.1	354.0	910.3	1913.4	2227.7
45°	73.5	80.0	90.7	162.2	357.4	930.8	1995.2	2318.6
47.5°	73.7	82.6	87.7	156.3	357.4	965.0	2091.2	2399.8
50°	72.9	87.1	84.4	148.0	349.1	1029.8	2222.8	2508.5
52.5°	72.5	86.5	78.2	135.3	334.8	1132.7	2391.5	2658.4
55°	71.5	83.4	73.7	116.2	317.9	1244.9	2572.1	2835.6
57.5°	70.5	73.9	71.3	99.6	292.0	1323.8	2696.5	2973.9
60°	79.0	64.6	69.3	91.5	257.4	1345.5	2691.6	3029.0
62.5°	73.1	60.6	66.6	89.7	233.1	1284.8	2567.3	2999.2
65°	57.3	57.9	64.0	95.0	226.6	1123.8	2346.9	2861.7
67.5°	52.5	55.3	61.4	101.7	227.2	899.8	2017.7	2562.2
70°	49.4	52.5	58.3	105.1	228.8	670.7	1595.2	2086.9
72.5°	46.0	48.6	54.9	105.7	218.3	487.2	1229.5	1534.5
75°	41.9	44.4	50.0	92.1	180.8	338.0	940.5	1049.8
77.5°	37.3	39.1	43.9	71.1	134.3	216.3	706.0	766.9
80°	31.8	32.8	36.9	52.0	91.9	135.3	558.5	615.4
82.5°	25.5	25.9	28.6	39.1	59.7	86.9	374.0	426.9
85°	18.0	18.0	19.6	28.4	40.7	55.1	203.1	225.2
87.5°	8.5	8.7	8.7	15.6	21.3	27.9	46.8	28.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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