

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: P270169

Luminaire Tested: **GWC-AF-01-LED-E1-SLR-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270169
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-SLR-7027
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4854.4 lumens
Efficiency: N/A
Efficacy: 82.3 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

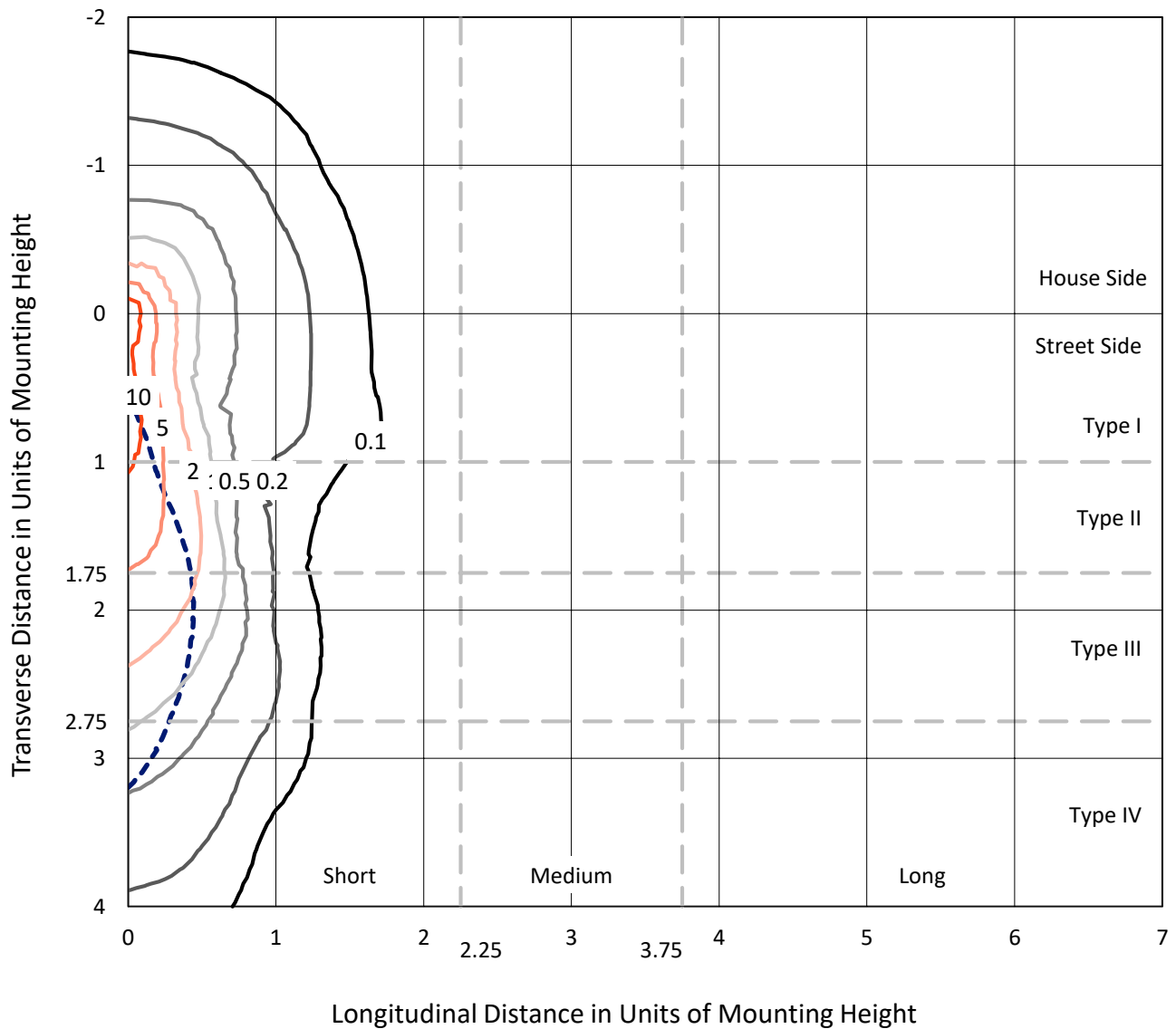
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

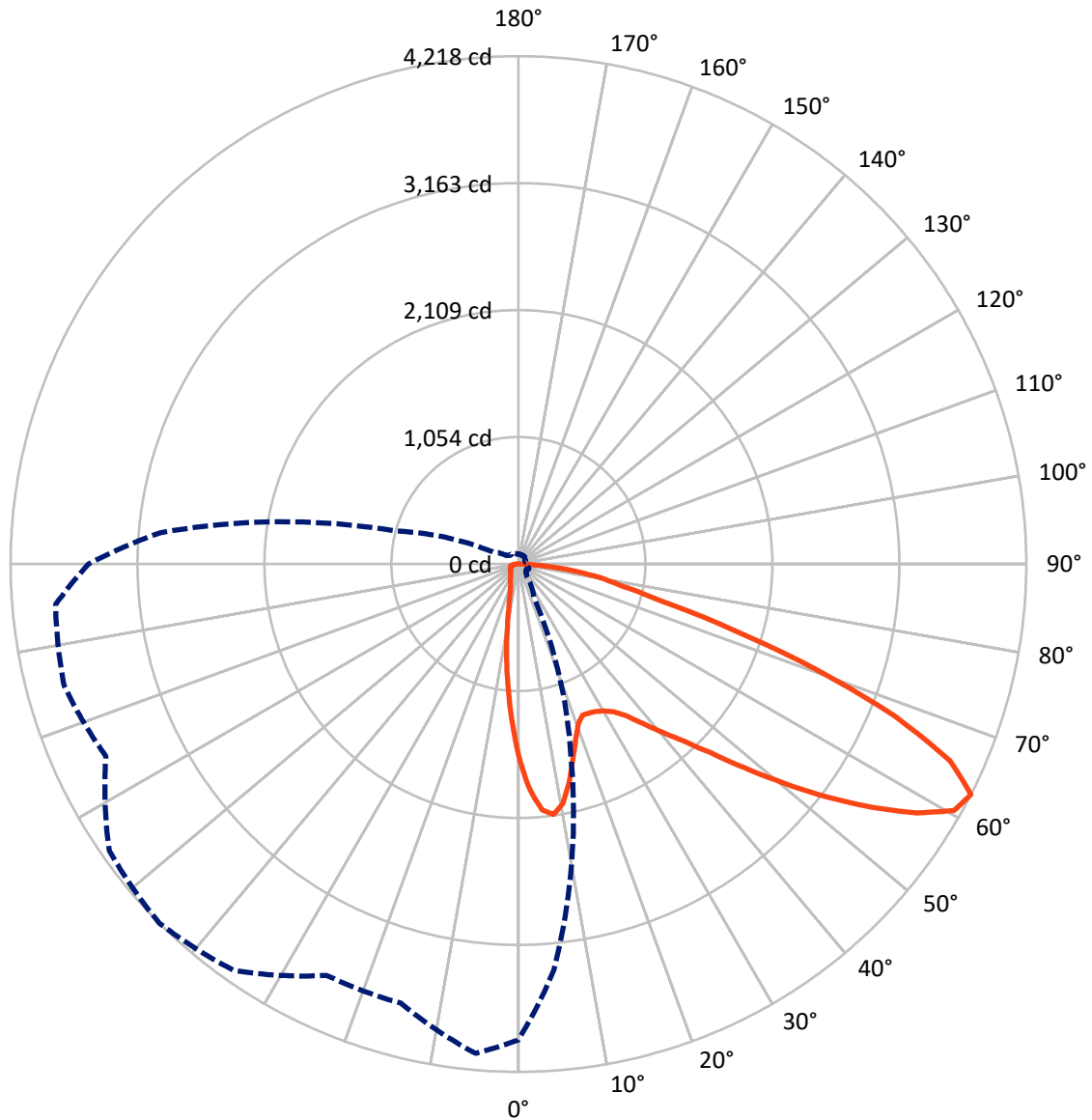
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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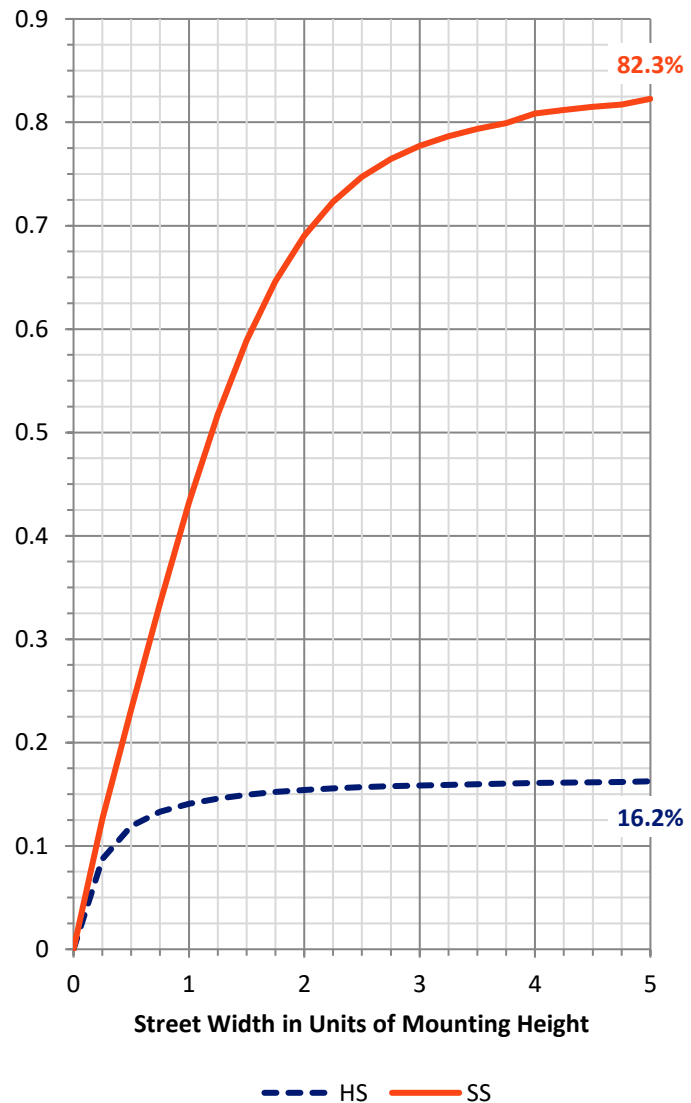
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	803.3	0.0	803.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4051.1	0.0	4051.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	4854.4	0.0	4854.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	2.5
10°-20°	218.9	4.5
20°-30°	319.2	6.6
30°-40°	491.6	10.1
40°-50°	723.5	14.9
50°-60°	1061.2	21.9
60°-70°	1186.3	24.4
70°-80°	580.8	12.0
80°-90°	153.3	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°	4854.4	100.0
0°-180°	4854.4	100.0



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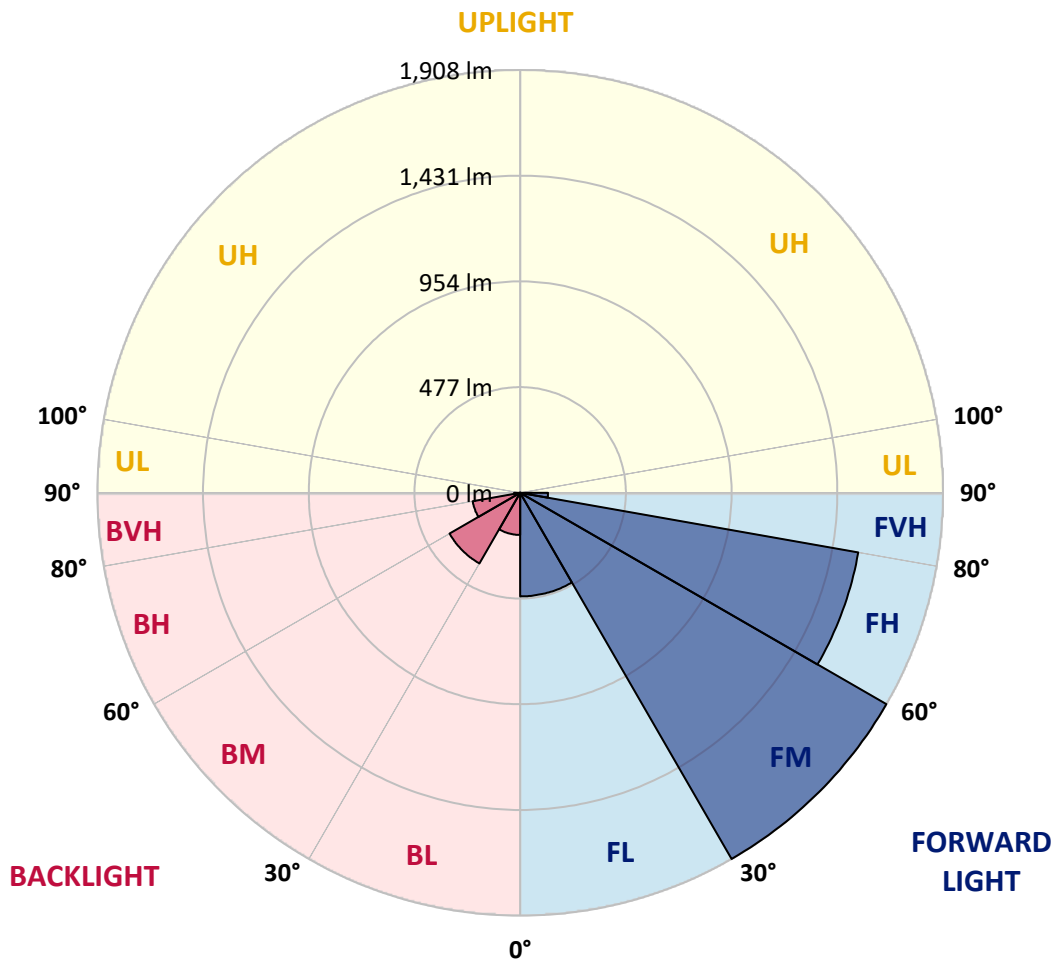
CATALOG NUMBER: GWC-AF-01-LED-E1-SLR-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	467.5	9.6			
FM	(30°-60°)	1908.3	39.3			
FH	(60°-80°)	1549.4	31.9			G1/1800
FVH	(80°-90°)	125.9	2.6			G2/225
BL	(0°-30°)	190.1	3.9	B1/500		
BM	(30°-60°)	368.1	7.6	B1/1000		
BH	(60°-80°)	217.8	4.5	B1/500		G1/500
BVH	(80°-90°)	27.4	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°	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0
2.5°	1704.2	1669.4	1611.7	1551.7	1515.3	1472.5	1439.2	1409.8	1351.1	1339.6	1350.1
5°	1602.4	1532.8	1424.3	1314.8	1241.9	1163.8	1102.8	1054.2	979.6	966.5	982.2
7.5°	1439.4	1356.1	1212.6	1073.0	970.0	872.3	806.7	754.3	696.2	671.2	672.7
10°	1298.8	1204.8	1035.1	883.4	799.0	733.0	677.9	624.1	565.3	526.4	515.8
12.5°	1220.1	1112.0	916.5	780.7	702.7	633.2	573.7	516.3	453.4	413.8	402.7
15°	1206.5	1089.0	871.9	715.2	617.2	529.5	459.3	395.3	330.3	298.3	291.7
17.5°	1265.4	1130.1	857.4	656.8	536.8	428.6	342.3	270.8	218.0	201.9	200.7
20°	1378.5	1209.1	855.5	601.8	457.6	330.7	238.6	186.5	163.3	158.8	159.0
22.5°	1537.3	1331.6	878.5	560.5	384.8	246.6	179.3	156.1	147.1	142.8	142.8
25°	1742.8	1500.3	931.4	530.2	321.6	197.0	158.2	144.4	135.9	132.9	133.4
27.5°	1941.9	1664.4	992.6	506.5	280.2	178.9	149.9	137.4	130.0	127.0	128.4
30°	2097.3	1810.1	1043.9	474.1	259.2	173.7	152.9	140.0	129.4	124.9	125.1
32.5°	2225.8	1937.6	1086.9	450.9	240.4	148.8	131.8	126.2	124.9	119.6	116.9
35°	2390.2	2076.6	1115.8	451.5	231.7	132.9	117.4	107.5	100.3	94.2	94.2
37.5°	2582.8	2236.2	1146.3	457.6	228.3	123.5	112.4	102.4	95.8	89.9	88.8
40°	2773.3	2392.6	1174.4	463.5	226.6	117.9	108.3	99.3	93.2	87.2	85.7
42.5°	2935.4	2521.3	1199.4	466.5	220.2	117.4	105.5	97.1	91.3	84.9	83.3
45°	3055.1	2629.0	1226.5	471.0	213.7	119.6	105.5	96.8	89.7	83.5	81.9
47.5°	3162.3	2755.6	1271.6	471.0	206.0	115.5	108.9	97.1	89.4	83.1	81.7
50°	3305.6	2929.0	1357.0	460.0	195.1	111.3	114.8	96.1	87.0	81.9	80.3
52.5°	3503.0	3151.3	1492.5	441.1	178.3	102.9	113.9	95.5	84.6	79.3	77.3
55°	3736.5	3389.3	1640.3	419.0	153.3	97.1	110.0	94.2	81.9	76.0	74.2
57.5°	3918.8	3553.2	1744.4	384.8	131.3	94.0	97.3	92.9	78.7	72.7	71.0
60°	3991.3	3546.8	1773.0	339.2	120.6	91.3	85.1	104.1	76.0	69.9	68.0
62.5°	3952.2	3382.8	1692.9	307.1	118.1	87.9	79.8	96.4	73.9	68.0	65.3
65°	3770.9	3092.5	1480.8	298.5	125.1	84.4	76.4	75.5	71.0	65.3	62.7
67.5°	3376.2	2658.7	1185.7	299.4	133.9	80.8	72.9	69.1	67.0	62.4	60.0
70°	2749.9	2102.0	883.8	301.6	138.5	76.8	69.1	65.0	62.7	58.2	56.6
72.5°	2021.9	1620.1	642.1	287.6	139.2	72.4	64.0	60.5	58.2	53.4	52.0
75°	1383.4	1239.2	445.4	238.3	121.5	65.9	58.4	55.2	53.5	47.8	47.0
77.5°	1010.6	930.3	285.0	177.0	93.7	57.9	51.6	49.0	48.0	41.6	40.6
80°	811.0	736.0	178.3	121.1	68.6	48.6	43.2	42.0	40.9	34.5	33.6
82.5°	562.5	492.9	114.4	78.7	51.6	37.5	34.1	33.6	32.0	26.1	25.3
85°	296.7	267.6	72.7	53.5	37.4	26.0	23.7	23.7	22.9	17.3	16.8
87.5°	37.9	61.7	36.8	27.9	20.5	11.5	11.5	11.1	11.9	9.9	8.5
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°	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0
2.5°	1325.4	1338.3	1326.0	1326.7	1340.5	1381.0	1399.4	1414.7	1430.9	1441.5	1446.4
5°	960.6	990.6	1000.7	1022.0	1053.5	1105.4	1125.8	1140.8	1150.6	1156.6	1159.0
7.5°	657.0	675.2	695.4	729.9	798.5	828.9	842.5	838.9	827.8	823.7	819.8
10°	495.2	488.0	484.4	503.3	558.7	589.5	599.1	589.7	583.5	584.9	591.7
12.5°	383.8	371.2	356.0	353.8	390.5	417.9	424.0	424.5	435.8	445.6	460.3
15°	279.6	278.4	270.8	266.3	287.2	309.6	312.3	317.0	327.2	334.3	347.1
17.5°	197.2	204.5	210.3	213.2	229.0	245.0	242.1	239.7	237.8	237.8	243.9
20°	159.0	163.9	171.3	179.9	195.9	207.1	199.9	190.4	183.3	181.2	181.9
22.5°	143.3	147.1	151.4	158.8	173.3	180.9	173.3	166.2	159.3	156.9	156.1
25°	135.3	140.0	144.1	149.7	160.3	165.6	158.2	153.3	148.8	146.0	143.8
27.5°	130.8	135.0	136.2	138.8	147.9	152.6	148.8	146.8	144.1	141.5	138.8
30°	125.9	125.1	123.2	123.5	130.8	135.6	135.3	135.9	135.6	134.7	134.2
32.5°	115.1	113.5	111.7	113.5	120.1	124.3	124.7	125.8	125.8	125.5	127.6
35°	95.8	98.8	100.6	105.5	113.5	117.1	115.5	112.8	108.1	105.1	104.9
37.5°	88.7	89.1	92.3	99.1	107.7	111.3	108.9	102.8	99.5	99.1	99.8
40°	85.1	85.7	87.6	93.7	102.4	105.9	103.8	99.3	96.4	96.1	97.3
42.5°	82.7	83.3	84.4	88.7	95.8	100.2	100.3	97.1	93.7	94.0	95.3
45°	81.3	81.7	81.3	83.5	90.2	95.3	97.3	95.3	92.3	92.9	94.4
47.5°	81.1	80.3	79.3	79.8	86.7	91.7	94.4	93.7	92.3	92.9	94.2
50°	80.0	78.2	76.8	76.5	83.5	88.8	91.3	91.3	91.7	92.9	94.2
52.5°	76.8	74.6	74.6	73.9	81.3	86.4	88.0	88.4	89.1	91.0	92.9
55°	72.9	72.0	72.9	71.5	79.8	84.6	85.3	85.9	86.4	88.0	90.6
57.5°	69.3	68.4	70.2	69.7	78.4	82.7	82.7	83.8	83.8	85.9	88.0
60°	67.6	65.3	66.1	66.7	76.5	81.1	80.6	81.7	82.1	84.0	85.7
62.5°	65.0	63.2	63.2	64.6	74.5	78.7	78.4	79.3	81.3	81.9	83.5
65°	62.2	61.4	60.5	62.2	72.4	76.0	76.4	77.3	79.3	79.8	81.1
67.5°	59.3	59.5	57.9	59.5	70.4	73.4	73.4	75.5	76.4	77.3	78.7
70°	56.1	56.4	54.9	56.9	69.1	70.4	70.2	73.1	73.7	74.5	75.7
72.5°	52.0	52.0	51.6	54.2	67.0	67.6	67.0	69.3	69.7	70.4	71.0
75°	47.8	47.8	47.3	50.9	65.7	64.3	62.7	64.6	65.0	65.7	65.7
77.5°	42.2	42.7	42.7	47.3	61.2	63.1	57.6	58.7	59.5	59.7	59.0
80°	35.3	36.6	37.1	42.9	51.3	58.2	51.6	52.3	52.6	52.6	51.6
82.5°	26.9	29.4	30.7	37.1	39.3	48.9	44.8	45.6	44.8	43.2	42.7
85°	18.7	21.9	23.4	28.2	29.6	37.5	37.4	37.4	35.8	33.6	33.3
87.5°	10.2	11.9	13.0	16.8	20.3	25.3	27.5	26.7	25.3	24.1	24.3
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0
2.5°	1471.5	1507.7	1565.7	1609.9	1654.5	1697.4	1743.9	1779.5	1809.5	1821.3	1857.1
5°	1183.2	1228.6	1283.3	1382.0	1451.9	1529.1	1618.1	1736.2	1781.5	1844.2	1946.9
7.5°	836.6	877.6	965.8	1045.5	1144.5	1253.7	1374.0	1536.8	1596.3	1696.9	1864.3
10°	624.7	672.6	743.2	810.5	897.6	1009.2	1147.5	1329.4	1401.7	1510.9	1703.5
12.5°	503.3	559.6	634.7	697.9	765.4	844.0	978.3	1177.9	1274.8	1370.3	1565.0
15°	386.7	445.6	515.3	595.7	670.0	754.9	895.6	1113.9	1225.4	1324.9	1491.1
17.5°	267.6	318.1	405.9	489.7	584.9	693.5	872.7	1127.5	1260.6	1375.3	1504.0
20°	189.7	218.6	290.6	387.8	506.5	642.8	868.3	1199.0	1372.2	1503.1	1586.1
22.5°	159.5	170.3	212.2	301.3	438.5	605.0	883.4	1299.3	1522.6	1690.0	1717.2
25°	145.4	151.9	173.7	236.4	377.8	577.5	933.7	1448.7	1708.9	1876.7	1872.0
27.5°	137.7	144.4	158.8	199.7	332.3	560.5	984.2	1625.9	1921.8	2079.5	2019.7
30°	135.3	144.4	159.5	188.1	299.7	533.5	1025.5	1781.5	2085.8	2216.5	2087.0
32.5°	133.4	134.7	141.8	162.2	268.8	502.0	1053.5	1921.0	2246.1	2346.7	2183.9
35°	107.7	114.4	125.8	145.4	250.5	483.0	1053.5	2041.4	2404.0	2478.2	2276.2
37.5°	103.8	109.7	119.6	136.4	240.4	473.6	1032.4	2157.5	2565.5	2627.5	2352.3
40°	101.7	106.4	115.8	129.4	236.2	462.9	1001.8	2260.0	2723.2	2776.9	2423.3
42.5°	100.2	104.4	113.1	125.1	230.5	451.3	976.9	2342.2	2860.2	2904.4	2491.1
45°	99.3	103.8	113.5	127.3	219.4	435.8	968.7	2431.1	2972.8	3010.8	2564.4
47.5°	99.3	104.7	114.8	131.8	206.0	419.8	994.6	2548.2	3079.2	3098.0	2650.9
50°	98.5	104.4	118.4	127.3	186.5	399.4	1055.4	2695.8	3194.6	3196.6	2760.3
52.5°	96.8	103.8	127.6	124.7	164.1	372.7	1137.7	2885.3	3365.1	3377.8	2931.7
55°	95.0	102.9	125.1	118.4	145.7	341.0	1204.8	3115.5	3604.7	3640.1	3183.6
57.5°	92.5	102.0	121.1	110.0	133.7	300.3	1229.2	3284.2	3772.0	3861.2	3467.5
60°	90.5	101.1	109.5	104.9	126.2	265.8	1182.2	3250.7	3760.5	3952.6	3719.2
62.5°	88.4	102.0	99.8	101.7	122.8	243.6	1059.5	2983.7	3570.3	3858.2	3905.7
65°	85.9	94.7	94.2	99.1	122.0	234.8	878.3	2583.2	3202.5	3559.5	3949.7
67.5°	82.7	87.6	90.2	95.5	124.7	227.1	708.8	2130.8	2691.5	3112.1	3720.2
70°	79.3	83.3	86.1	91.3	123.0	223.6	589.5	1680.4	2135.6	2550.6	3267.3
72.5°	74.6	78.2	80.8	85.7	121.5	221.7	497.9	1353.1	1594.4	1894.6	2656.5
75°	69.3	72.7	74.5	79.3	116.3	203.0	391.5	1145.1	1193.0	1318.1	2115.9
77.5°	63.2	65.7	67.3	72.7	102.9	168.9	283.1	883.4	926.5	957.0	1622.2
80°	56.1	58.4	59.3	64.3	85.3	132.1	184.6	652.4	693.0	700.0	1059.5
82.5°	47.8	50.1	50.1	54.9	69.9	95.0	121.1	446.9	455.0	478.4	748.7
85°	38.4	40.3	40.3	42.7	54.2	71.0	83.3	224.4	222.1	253.5	648.8
87.5°	27.5	28.8	30.2	30.7	38.6	47.0	50.1	68.4	45.0	51.7	416.5
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0
2.5°	1883.9	1899.1	1883.7	1872.4	1824.2	1784.5	1731.4	1704.2
5°	2025.1	2063.9	2050.8	2003.8	1902.9	1789.6	1660.6	1602.4
7.5°	2008.2	2098.0	2100.1	2012.4	1863.8	1696.7	1522.2	1439.4
10°	1875.2	1990.1	2023.1	1938.0	1780.3	1593.4	1393.2	1298.8
12.5°	1726.8	1839.4	1864.5	1835.1	1703.4	1515.7	1312.7	1220.1
15°	1605.5	1655.8	1685.7	1711.4	1637.4	1484.8	1308.1	1206.5
17.5°	1531.5	1526.0	1534.5	1579.0	1591.4	1520.2	1377.6	1265.4
20°	1504.8	1419.1	1416.9	1478.4	1569.9	1604.8	1513.0	1378.5
22.5°	1519.5	1380.7	1363.1	1435.9	1581.3	1726.8	1690.8	1537.3
25°	1570.1	1383.8	1369.7	1440.3	1623.0	1856.7	1882.7	1742.8
27.5°	1649.9	1404.2	1385.5	1457.8	1678.3	1965.9	2071.6	1941.9
30°	1725.7	1439.4	1416.2	1492.5	1728.7	2009.1	2187.5	2097.3
32.5°	1817.8	1505.3	1464.4	1556.4	1791.1	2078.0	2290.7	2225.8
35°	1908.0	1599.3	1548.6	1654.8	1860.7	2163.7	2408.6	2390.2
37.5°	2007.1	1722.1	1680.1	1782.1	1956.0	2244.5	2559.1	2582.8
40°	2112.6	1884.7	1835.1	1967.7	2103.9	2346.0	2716.4	2773.3
42.5°	2219.2	2065.5	2006.3	2140.8	2266.3	2445.9	2850.9	2935.4
45°	2341.2	2261.7	2233.5	2379.0	2422.5	2541.2	2950.0	3055.1
47.5°	2483.1	2484.2	2529.3	2587.4	2579.9	2649.0	3049.8	3162.3
50°	2648.8	2761.8	2861.6	2900.2	2742.2	2764.9	3188.4	3305.6
52.5°	2847.8	3094.1	3217.5	3192.0	2916.9	2906.2	3407.7	3503.0
55°	3096.8	3445.9	3568.3	3550.2	3117.8	3099.0	3681.0	3736.5
57.5°	3385.1	3786.6	3899.3	3817.5	3359.1	3310.3	3907.0	3918.8
60°	3638.2	4056.7	4155.4	4065.0	3602.6	3535.3	4048.1	3991.3
62.5°	3779.2	4148.3	4217.6	4120.3	3769.3	3774.9	4079.2	3952.2
65°	3716.2	3916.9	3939.2	3931.3	3726.3	3913.9	3967.9	3770.9
67.5°	3371.3	3332.0	3369.5	3421.6	3358.0	3730.9	3659.7	3376.2
70°	2764.1	2547.1	2622.2	2657.0	2685.9	3210.5	3176.3	2749.9
72.5°	2083.1	1784.5	1843.7	1836.5	1970.0	2575.1	2470.2	2021.9
75°	1475.9	1209.8	1217.5	1214.5	1374.5	2014.8	1788.7	1383.4
77.5°	1032.7	876.7	880.6	897.1	924.0	1519.5	1278.0	1010.6
80°	710.1	665.3	687.5	688.7	640.4	1020.7	944.1	811.0
82.5°	528.9	462.4	457.1	464.9	502.0	827.0	725.7	562.5
85°	433.2	273.9	220.2	275.9	444.8	819.0	481.9	296.7
87.5°	243.9	130.0	58.7	108.9	177.4	542.2	139.2	37.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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