

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: P200170

Luminaire Tested: **GWC-AF-02-LED-E1-SLR-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200170
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-02-LED-E1-SLR-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12250.9 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

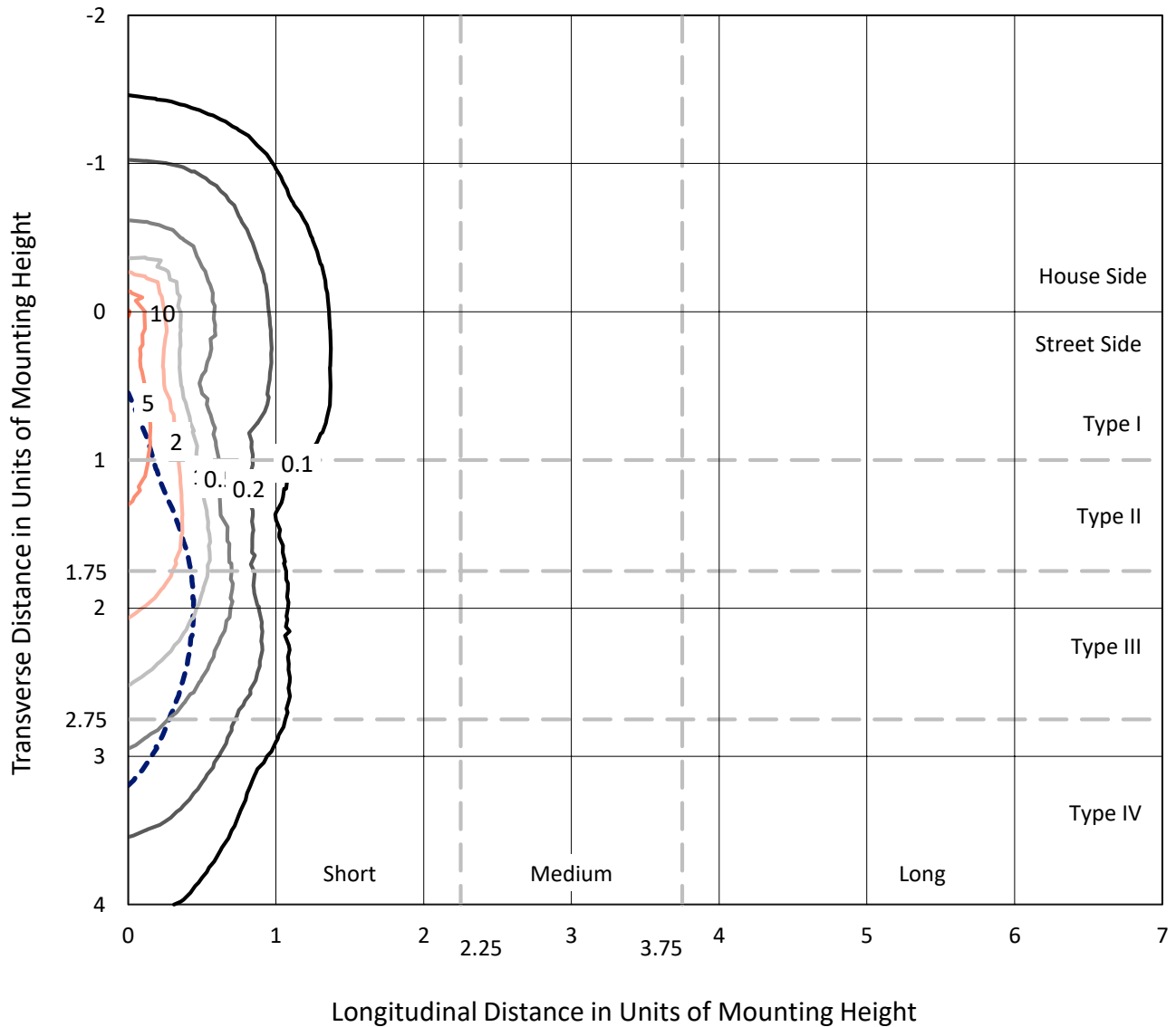
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

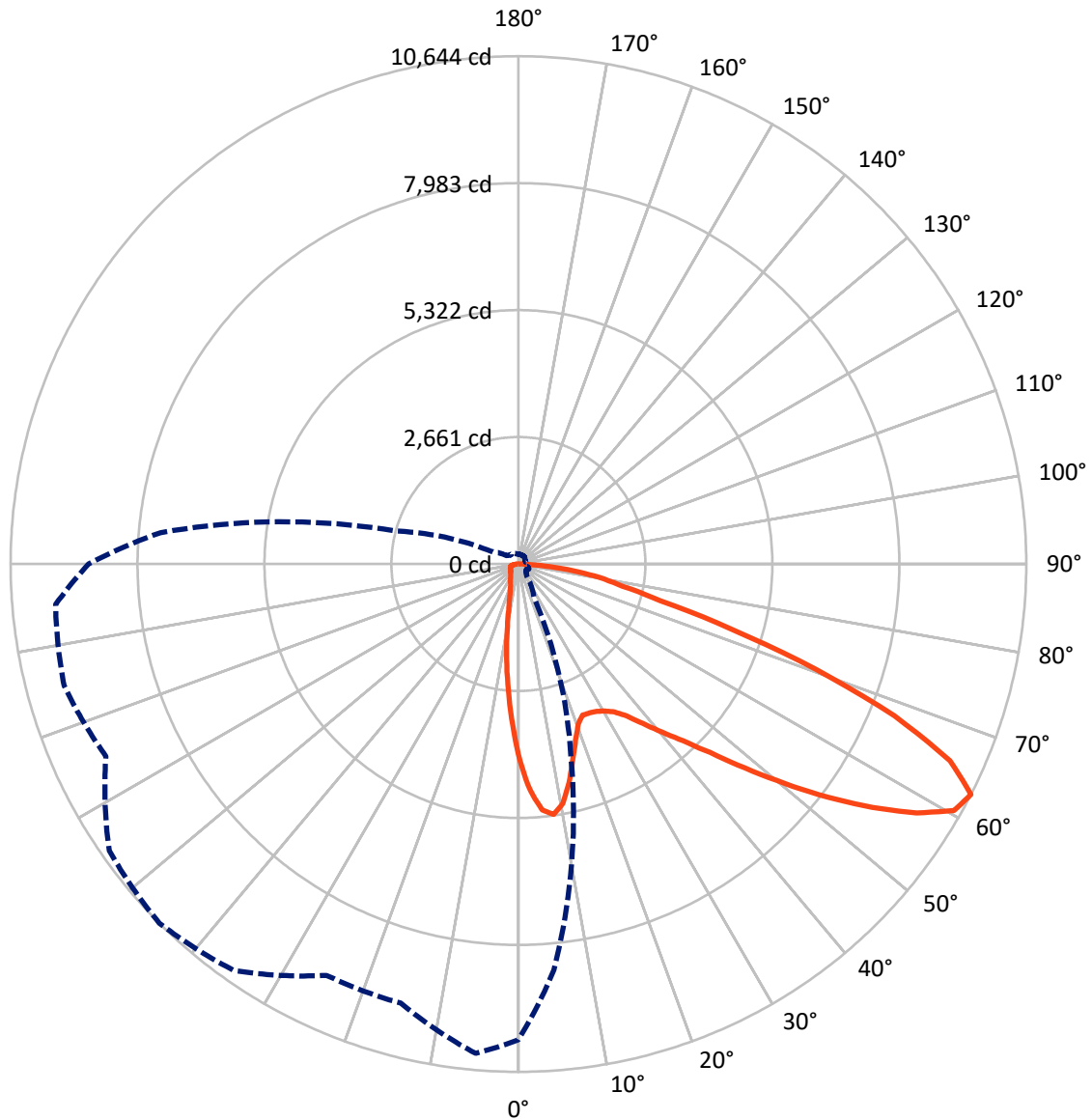
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.3 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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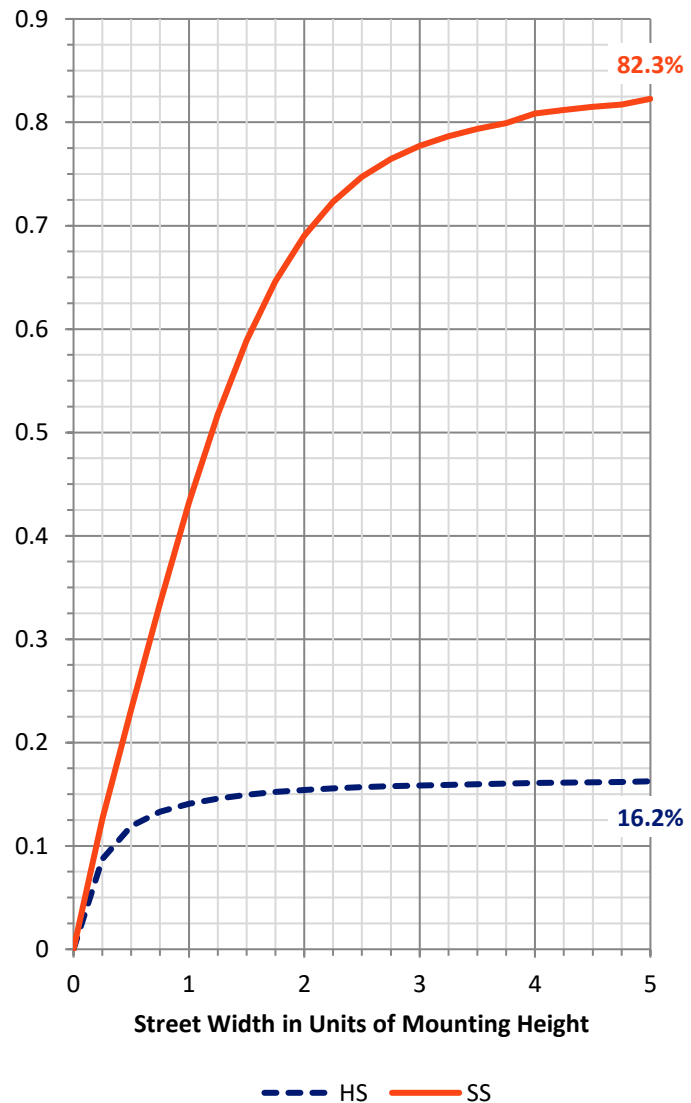
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2027.4	0.0	2027.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	10223.5	0.0	10223.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	12250.9	0.0	12250.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.3	2.5
10°-20°	552.5	4.5
20°-30°	805.6	6.6
30°-40°	1240.7	10.1
40°-50°	1825.9	14.9
50°-60°	2678.2	21.9
60°-70°	2993.9	24.4
70°-80°	1465.8	12.0
80°-90°	387.0	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°	12250.9	100.0
0°-180°	12250.9	100.0



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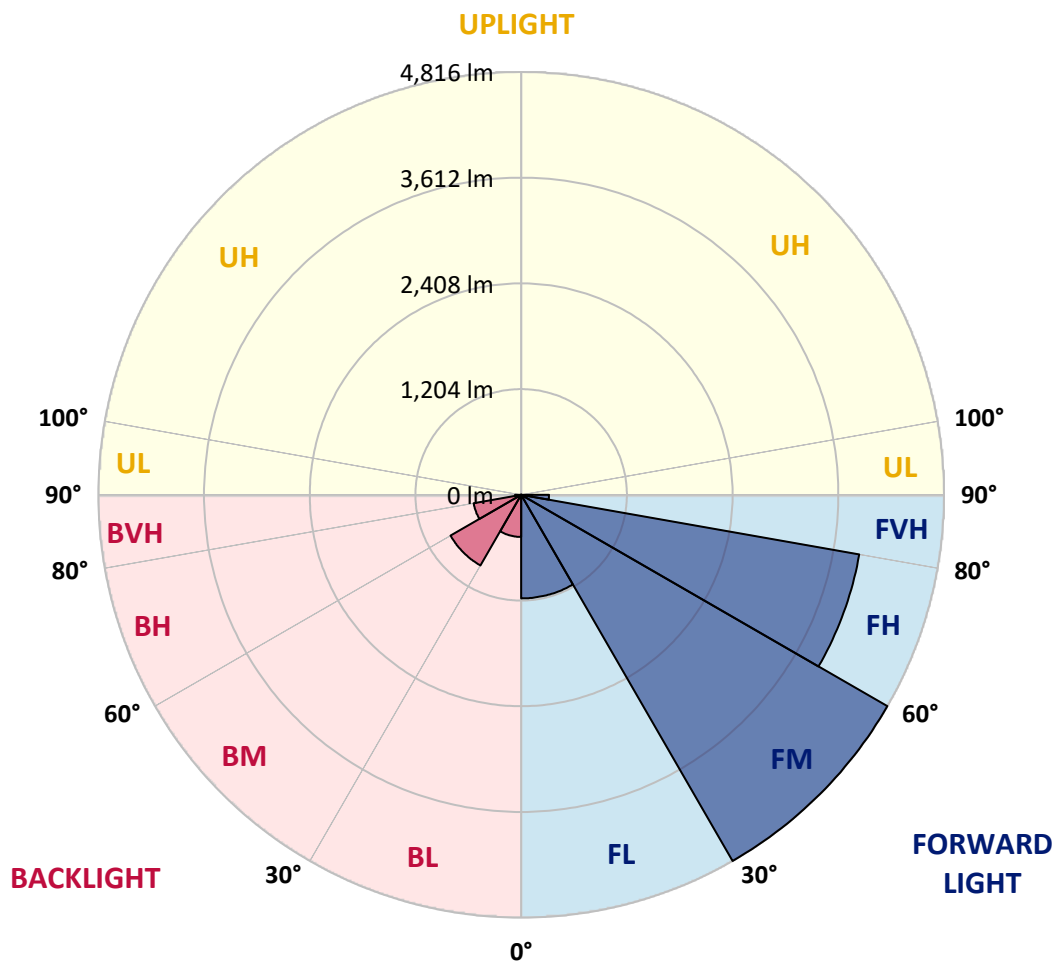
CATALOG NUMBER: GWC-AF-02-LED-E1-SLR-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1179.7	9.6			
FM	(30°-60°)	4815.9	39.3			
FH	(60°-80°)	3910.1	31.9			G2/5000
FVH	(80°-90°)	317.8	2.6			G3/500
BL	(0°-30°)	479.6	3.9	B1/500		
BM	(30°-60°)	928.9	7.6	B1/1000		
BH	(60°-80°)	549.6	4.5	B2/1000		G2/1000
BVH	(80°-90°)	69.2	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0
2.5°	4300.6	4213.1	4067.7	3916.1	3823.8	3716.1	3631.9	3557.8	3409.7	3380.8	3406.9
5°	4044.0	3868.3	3594.1	3318.0	3134.2	2936.9	2783.3	2660.1	2472.3	2439.2	2478.9
7.5°	3632.6	3422.5	3060.2	2708.0	2448.0	2201.5	2035.9	1903.8	1757.0	1693.7	1697.8
10°	3277.6	3040.6	2612.3	2229.1	2016.3	1850.0	1710.6	1575.1	1426.4	1328.7	1301.8
12.5°	3079.0	2806.3	2312.6	1970.5	1773.2	1598.1	1447.9	1303.1	1144.2	1044.5	1016.2
15°	3044.6	2748.4	2200.2	1804.8	1557.6	1336.1	1159.0	997.4	833.7	752.9	736.1
17.5°	3193.4	2852.1	2163.7	1657.4	1355.0	1081.6	864.0	683.5	550.2	509.8	506.5
20°	3479.1	3051.4	2159.0	1518.6	1154.9	834.4	602.1	470.8	412.1	400.7	401.4
22.5°	3879.7	3360.5	2216.9	1414.2	971.1	622.3	452.6	393.9	371.0	360.3	360.3
25°	4398.3	3786.1	2350.3	1338.1	811.5	497.1	399.4	364.4	342.8	335.4	336.8
27.5°	4900.7	4200.2	2505.2	1278.2	707.2	451.2	378.5	346.8	328.0	320.6	324.0
30°	5292.6	4568.0	2634.5	1196.8	653.9	438.4	385.9	353.5	326.6	315.2	315.9
32.5°	5617.2	4889.9	2742.9	1138.1	606.8	375.8	332.7	318.5	315.2	301.7	295.0
35°	6032.0	5240.8	2815.7	1139.5	584.5	335.4	296.3	271.4	253.2	237.7	237.7
37.5°	6518.2	5643.5	2893.1	1154.9	576.4	311.8	283.6	258.6	241.7	227.0	224.2
40°	6999.1	6038.1	2963.8	1169.7	571.7	297.7	273.4	250.5	235.1	220.2	216.1
42.5°	7407.9	6362.8	3027.1	1177.2	555.6	296.3	266.0	245.1	230.4	214.2	210.1
45°	7710.3	6634.8	3095.1	1188.7	539.4	301.7	266.0	244.5	226.3	210.8	206.7
47.5°	7980.3	6954.0	3209.0	1188.7	519.9	291.6	274.8	245.1	225.6	209.4	206.1
50°	8342.0	7391.7	3424.4	1161.0	492.2	280.8	289.6	242.4	219.5	206.7	202.7
52.5°	8840.3	7952.7	3766.6	1113.2	449.9	259.9	287.6	241.1	213.5	200.0	195.3
55°	9429.6	8553.4	4139.7	1057.3	386.6	245.1	277.4	237.7	206.7	191.9	187.2
57.5°	9889.6	8967.0	4402.3	971.1	331.3	237.0	245.8	234.4	198.7	183.2	179.1
60°	10072.7	8950.8	4474.4	855.9	304.4	230.4	214.8	262.7	191.9	176.5	171.8
62.5°	9973.8	8537.2	4272.4	775.1	298.3	221.6	201.3	243.2	186.6	171.8	165.0
65°	9516.5	7804.6	3736.9	753.6	315.9	212.8	192.6	190.6	179.1	165.0	158.3
67.5°	8520.5	6709.5	2992.1	755.7	338.1	204.1	183.8	174.4	169.0	157.6	151.5
70°	6939.9	5304.7	2230.4	761.0	349.5	194.0	174.4	164.3	158.3	146.8	142.8
72.5°	5102.7	4088.5	1620.4	726.0	351.6	182.5	161.6	152.8	146.8	134.7	131.3
75°	3491.1	3127.5	1124.0	601.4	306.4	166.3	147.5	139.4	135.3	120.5	118.6
77.5°	2550.3	2347.7	719.2	446.5	236.4	146.2	130.0	123.9	121.2	105.1	102.4
80°	2046.6	1857.4	449.9	305.8	173.1	122.5	109.1	105.8	103.0	86.8	84.9
82.5°	1419.7	1243.8	288.9	198.7	130.0	94.9	86.2	84.9	80.8	66.0	63.9
85°	748.9	675.5	183.2	135.3	94.3	65.4	59.9	59.9	57.9	43.8	42.5
87.5°	95.6	155.6	93.0	70.7	51.9	28.9	28.9	28.3	30.3	25.0	21.6
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°	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0
2.5°	3345.0	3377.4	3346.4	3348.4	3382.7	3485.1	3531.5	3569.9	3611.0	3637.9	3650.1
5°	2424.4	2499.8	2525.5	2579.3	2658.8	2789.4	2841.2	2879.0	2903.9	2918.7	2924.8
7.5°	1658.0	1703.8	1755.0	1841.9	2014.9	2091.7	2126.1	2117.3	2089.1	2078.9	2068.8
10°	1249.9	1231.7	1222.3	1270.1	1410.2	1487.7	1511.9	1488.3	1472.8	1476.2	1493.0
12.5°	968.4	936.7	898.4	893.0	985.2	1054.7	1070.1	1071.4	1099.8	1124.6	1161.7
15°	705.7	702.4	683.5	672.1	724.7	781.2	788.0	800.0	825.6	843.8	876.2
17.5°	497.7	515.9	530.7	538.1	577.9	618.3	610.8	604.8	600.1	600.1	615.5
20°	401.4	413.5	432.4	453.9	494.3	522.6	504.4	480.2	462.7	457.3	459.3
22.5°	361.6	371.0	381.9	400.7	437.1	456.6	437.1	419.5	402.0	396.0	393.9
25°	341.5	353.5	363.7	377.8	404.8	418.2	399.4	386.6	375.8	368.4	362.9
27.5°	330.0	340.7	343.5	350.2	373.1	385.2	375.8	370.4	363.7	356.9	350.2
30°	317.8	315.9	311.2	311.8	330.0	342.1	341.5	342.8	342.1	340.1	338.7
32.5°	290.2	286.2	282.1	286.2	303.1	313.8	314.5	317.2	317.2	316.5	321.9
35°	241.7	249.2	253.9	266.0	286.2	295.6	291.6	284.9	272.7	265.4	264.6
37.5°	223.6	224.9	233.0	249.8	272.1	280.8	274.8	259.3	251.2	249.8	251.9
40°	214.8	216.1	220.9	236.4	258.6	267.4	262.0	250.5	243.2	242.4	245.8
42.5°	208.8	210.1	212.8	223.6	241.7	252.6	253.2	245.1	236.4	237.0	240.4
45°	205.4	206.1	205.4	210.8	227.6	240.4	245.8	240.4	233.0	234.4	238.4
47.5°	204.7	202.7	200.0	201.3	218.9	231.7	238.4	236.4	233.0	234.4	237.7
50°	202.0	197.3	194.0	193.2	210.8	224.2	230.4	230.4	231.7	234.4	237.7
52.5°	194.0	188.5	188.5	186.6	205.4	218.2	222.3	222.9	224.9	229.7	234.4
55°	183.8	181.9	183.8	180.4	201.3	213.5	215.5	216.9	218.2	222.3	228.9
57.5°	175.1	172.4	177.1	175.7	198.0	208.8	208.8	211.4	211.4	216.9	222.3
60°	170.4	165.0	167.0	168.4	193.2	204.7	203.4	206.1	207.5	212.2	216.1
62.5°	164.3	159.6	159.6	163.0	187.9	198.7	198.0	200.0	205.4	206.7	210.8
65°	156.9	154.9	152.8	156.9	182.5	191.9	192.6	195.3	200.0	201.3	204.7
67.5°	149.6	150.2	146.2	150.2	177.8	185.2	185.2	190.6	192.6	195.3	198.7
70°	141.5	142.1	138.7	143.4	174.4	177.8	177.1	184.5	185.9	187.9	191.3
72.5°	131.3	131.3	130.0	136.7	169.0	170.4	169.0	175.1	175.7	177.8	179.1
75°	120.5	120.5	119.2	128.6	165.7	162.3	158.3	163.0	164.3	165.7	165.7
77.5°	106.4	107.7	107.7	119.2	154.3	159.0	145.5	148.1	150.2	150.9	148.8
80°	88.9	92.3	93.6	108.4	129.3	146.8	130.0	132.0	132.7	132.7	130.0
82.5°	68.0	74.1	77.4	93.6	99.0	123.3	113.1	115.2	113.1	109.1	107.7
85°	47.2	55.2	59.2	71.4	74.8	94.9	94.3	94.3	90.2	84.9	84.2
87.5°	25.6	30.3	33.0	42.5	51.1	63.9	69.4	67.3	63.9	60.7	61.3
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°	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0
2.5°	3713.4	3805.0	3951.1	4062.9	4175.4	4283.8	4400.9	4490.5	4566.7	4596.2	4686.5
5°	2986.1	3100.6	3238.6	3487.8	3664.2	3858.9	4083.8	4381.4	4496.0	4654.2	4913.4
7.5°	2111.3	2215.0	2437.2	2638.6	2888.4	3163.9	3467.6	3878.4	4028.6	4282.5	4704.7
10°	1576.6	1697.1	1875.6	2045.3	2265.4	2546.9	2895.8	3355.1	3537.6	3813.0	4299.3
12.5°	1270.1	1412.2	1601.4	1761.1	1931.4	2130.1	2468.9	2972.6	3217.1	3458.2	3949.7
15°	975.8	1124.6	1300.4	1503.1	1691.0	1905.1	2260.1	2811.0	3092.5	3343.6	3763.2
17.5°	675.5	802.7	1024.3	1235.7	1476.2	1750.3	2202.2	2845.3	3181.4	3471.0	3795.6
20°	478.8	551.6	733.4	978.6	1278.2	1622.3	2191.4	3025.8	3462.9	3793.5	4003.0
22.5°	402.7	429.6	535.4	760.4	1106.4	1526.7	2229.1	3279.0	3842.7	4264.9	4333.6
25°	367.0	383.2	438.4	596.7	953.6	1457.3	2356.4	3656.1	4312.8	4736.4	4724.2
27.5°	347.5	364.4	400.7	503.7	838.4	1414.2	2483.6	4103.3	4850.1	5248.1	5097.4
30°	341.5	364.4	402.7	474.8	756.3	1346.2	2588.1	4496.0	5263.7	5593.6	5267.1
32.5°	336.8	340.1	357.6	409.5	678.1	1266.7	2658.8	4848.2	5668.4	5922.3	5511.5
35°	272.1	288.9	317.2	367.0	632.4	1218.9	2658.8	5151.9	6067.1	6254.3	5744.5
37.5°	262.0	276.8	301.7	344.1	606.8	1195.3	2605.6	5444.9	6474.5	6630.8	5936.4
40°	256.6	268.7	292.3	326.6	596.0	1168.4	2528.1	5703.5	6872.5	7007.9	6115.6
42.5°	252.6	263.3	285.5	315.9	581.9	1138.7	2465.5	5910.8	7218.0	7329.7	6286.6
45°	250.5	262.0	286.2	321.2	553.6	1099.8	2444.6	6135.0	7502.2	7598.5	6471.8
47.5°	250.5	264.0	289.6	332.7	519.9	1059.4	2509.9	6430.8	7770.8	7818.0	6690.0
50°	248.5	263.3	299.0	321.2	470.8	1008.1	2663.5	6803.1	8061.8	8067.2	6966.1
52.5°	244.5	262.0	321.9	314.5	414.2	940.8	2870.9	7281.3	8492.1	8524.5	7398.5
55°	239.8	259.9	315.9	299.0	367.8	860.7	3040.6	7862.5	9096.9	9186.5	8034.3
57.5°	233.6	257.3	305.8	277.4	337.4	757.6	3101.9	8288.2	9519.2	9744.1	8750.7
60°	228.3	255.2	276.1	264.6	318.5	670.7	2983.3	8204.0	9490.2	9975.1	9385.8
62.5°	222.9	257.3	251.9	256.6	309.7	614.9	2673.6	7529.8	9010.0	9736.7	9856.5
65°	216.9	239.1	237.7	249.8	307.8	592.6	2216.3	6519.0	8082.0	8983.1	9967.6
67.5°	208.8	220.9	227.6	241.1	314.5	573.1	1788.6	5377.4	6792.4	7853.7	9388.5
70°	200.0	210.1	217.5	230.4	310.5	564.4	1487.7	4240.6	5389.6	6436.8	8245.7
72.5°	188.5	197.3	204.1	216.1	306.4	559.7	1256.7	3415.0	4023.9	4781.5	6704.1
75°	175.1	183.2	187.9	200.0	293.6	512.5	988.0	2889.7	3011.0	3326.1	5339.8
77.5°	159.6	165.7	169.7	183.2	259.9	426.3	714.5	2229.1	2338.2	2415.0	4093.8
80°	141.5	147.5	149.6	162.3	215.5	333.4	466.1	1646.5	1748.9	1766.4	2673.6
82.5°	120.5	126.6	126.6	138.7	176.5	239.8	305.8	1128.0	1148.3	1207.5	1889.7
85°	97.0	101.7	101.7	107.7	136.7	179.1	210.1	566.4	560.3	639.8	1637.1
87.5°	69.4	72.7	76.1	77.4	97.7	118.6	126.6	172.4	113.9	130.6	1051.3
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°	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0	4139.0
2.5°	4754.6	4792.9	4753.9	4725.5	4603.7	4503.3	4369.3	4300.6
5°	5110.8	5208.5	5175.4	5057.0	4802.3	4516.1	4190.8	4044.0
7.5°	5067.7	5294.6	5300.0	5078.4	4703.3	4281.8	3841.4	3632.6
10°	4732.3	5022.6	5105.4	4890.5	4492.6	4021.1	3516.1	3277.6
12.5°	4357.9	4642.0	4705.4	4631.3	4298.6	3825.2	3312.7	3079.0
15°	4051.5	4178.8	4254.1	4318.8	4132.3	3747.1	3301.3	3044.6
17.5°	3864.9	3850.8	3872.3	3984.8	4016.4	3836.6	3476.3	3193.4
20°	3797.6	3581.4	3576.0	3730.9	3961.9	4050.1	3818.5	3479.1
22.5°	3834.6	3484.4	3440.0	3623.8	3990.8	4357.9	4266.9	3879.7
25°	3962.6	3492.5	3456.8	3634.5	4095.9	4685.8	4751.2	4398.3
27.5°	4163.9	3543.7	3496.5	3679.0	4235.3	4961.3	5228.0	4900.7
30°	4355.2	3632.6	3574.0	3766.6	4362.6	5070.4	5520.3	5292.6
32.5°	4587.5	3798.9	3695.9	3927.5	4520.2	5244.2	5780.9	5617.2
35°	4815.1	4036.0	3908.0	4176.0	4696.0	5460.3	6078.5	6032.0
37.5°	5065.0	4345.7	4240.0	4497.3	4936.4	5664.4	6458.3	6518.2
40°	5331.7	4756.5	4631.3	4966.0	5309.4	5920.2	6855.0	6999.1
42.5°	5600.3	5212.4	5063.0	5402.4	5719.6	6172.8	7194.4	7407.9
45°	5908.2	5707.5	5636.8	6003.8	6113.6	6413.2	7444.9	7710.3
47.5°	6266.4	6269.2	6382.9	6529.7	6510.9	6685.3	7696.8	7980.3
50°	6684.7	6970.2	7221.3	7319.0	6920.4	6977.5	8046.3	8342.0
52.5°	7187.0	7808.6	8119.8	8055.7	7361.5	7334.5	8599.9	8840.3
55°	7815.3	8696.2	9005.3	8959.5	7868.5	7820.8	9289.5	9429.6
57.5°	8542.7	9556.2	9840.4	9634.4	8477.3	8354.1	9859.9	9889.6
60°	9181.8	10237.7	10486.9	10258.6	9091.5	8921.8	10216.2	10072.7
62.5°	9537.4	10468.7	10643.8	10398.0	9512.4	9526.5	10294.3	9973.8
65°	9378.4	9884.9	9941.4	9921.2	9404.0	9877.4	10013.5	9516.5
67.5°	8508.3	8408.7	8503.6	8634.9	8474.6	9415.4	9235.6	8520.5
70°	6975.6	6428.0	6617.3	6705.5	6778.3	8102.2	8016.0	6939.9
72.5°	5256.9	4503.3	4652.8	4634.7	4971.3	6498.8	6234.1	5102.7
75°	3724.9	3053.4	3072.2	3064.9	3468.9	5084.5	4514.1	3491.1
77.5°	2606.3	2212.2	2222.4	2264.1	2332.1	3834.6	3225.2	2550.3
80°	1792.0	1678.9	1734.8	1738.2	1616.3	2575.9	2382.7	2046.6
82.5°	1334.7	1167.1	1153.6	1173.1	1266.7	2087.0	1831.1	1419.7
85°	1093.0	691.0	555.6	696.3	1122.6	2066.8	1216.3	748.9
87.5°	615.5	328.0	148.1	274.8	447.8	1368.4	351.6	95.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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