

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: P193062

Luminaire Tested: **GLEON-AF-04-LED-E1-SLR-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193062
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: GLEON-AF-04-LED-E1-SLR-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA 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: 16489.4 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 171
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



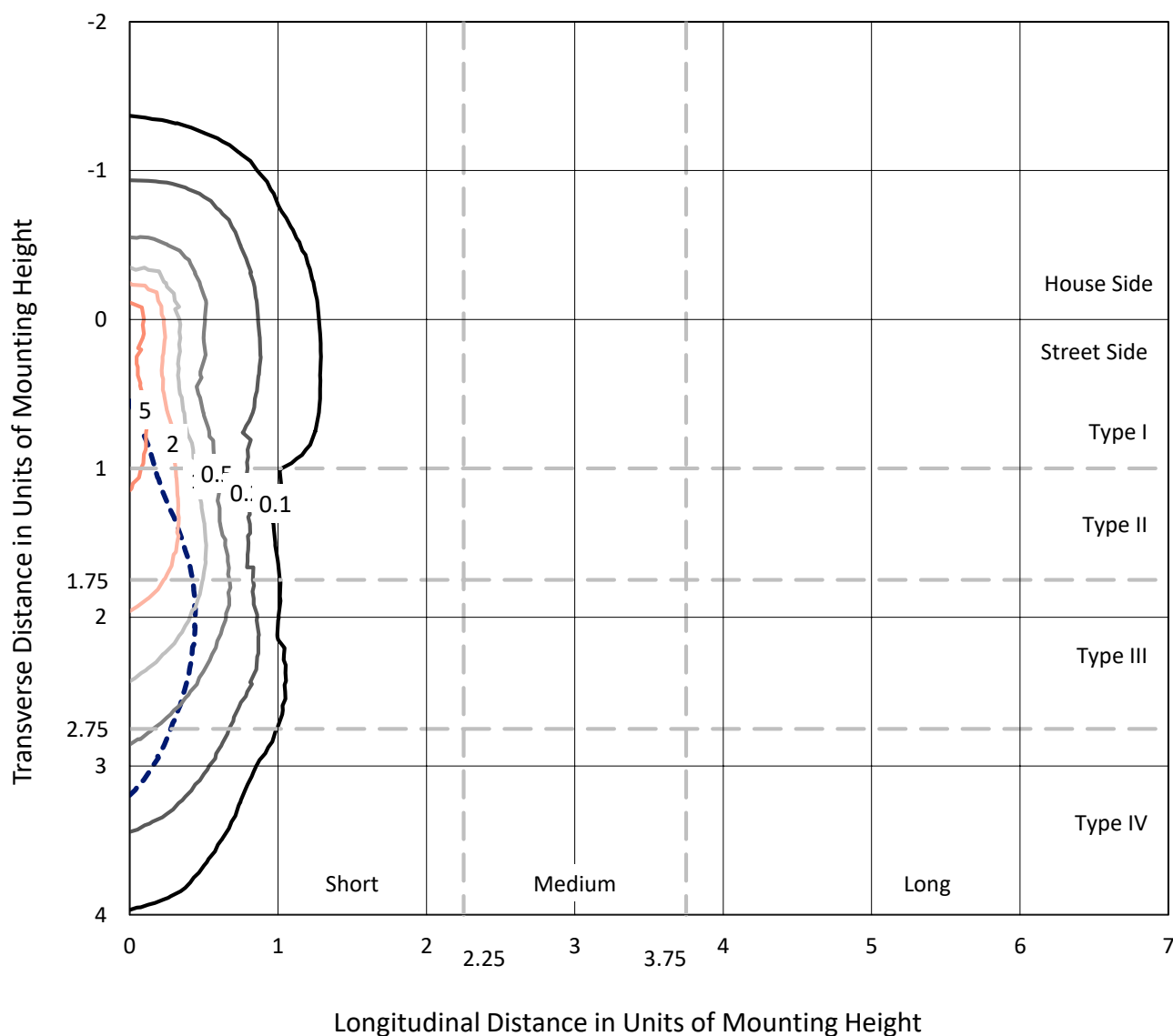
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

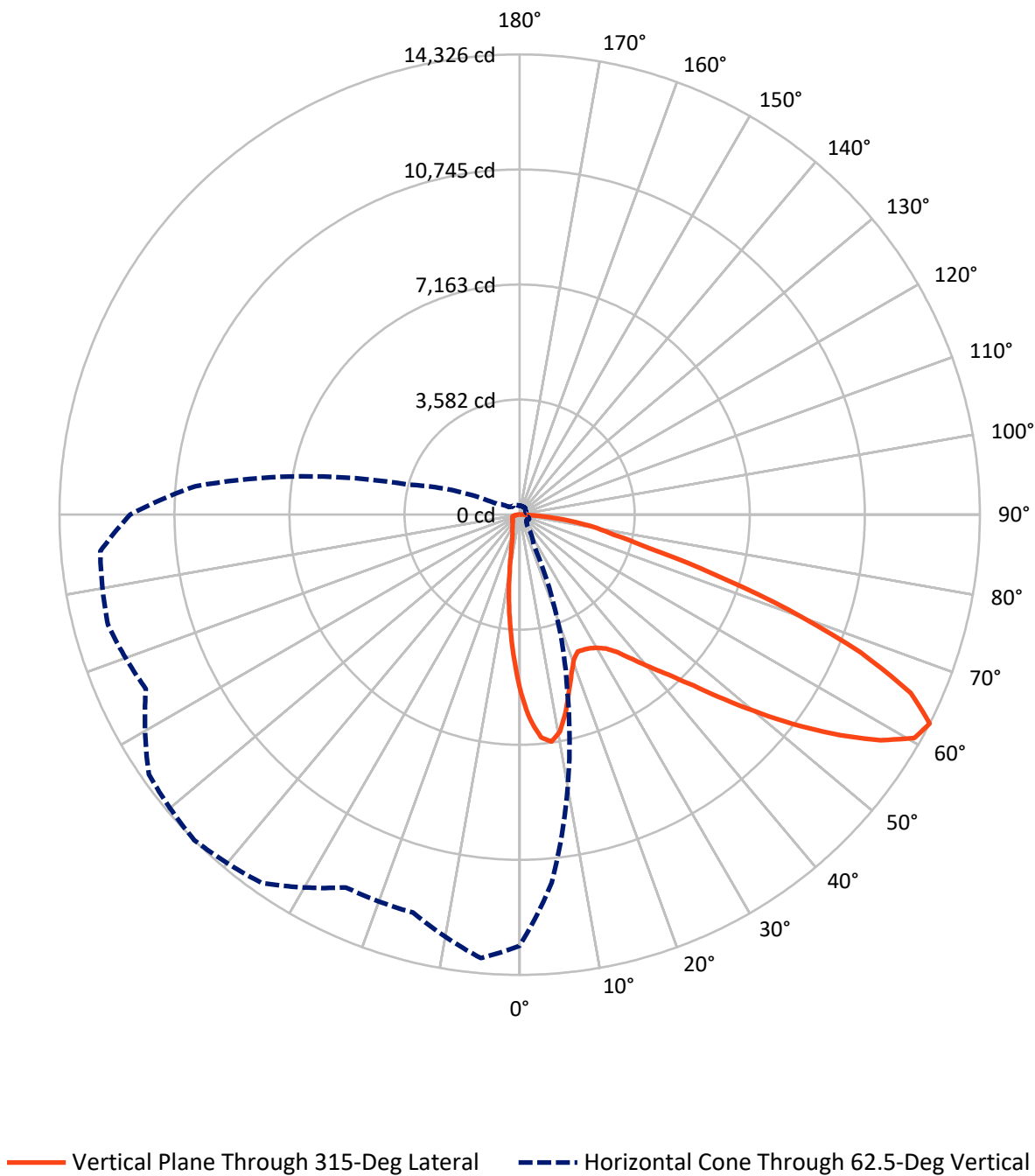


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2728.8	0.0	2728.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	13760.6	0.0	13760.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	16489.4	0.0	16489.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.5	2.5
10°-20°	743.7	4.5
20°-30°	1084.3	6.6
30°-40°	1669.9	10.1
40°-50°	2457.7	14.9
50°-60°	3604.9	21.9
60°-70°	4029.7	24.4
70°-80°	1972.9	12.0
80°-90°	520.9	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°	16489.4	100.0
0°-180°	16489.4	100.0

Coefficient of Utilization



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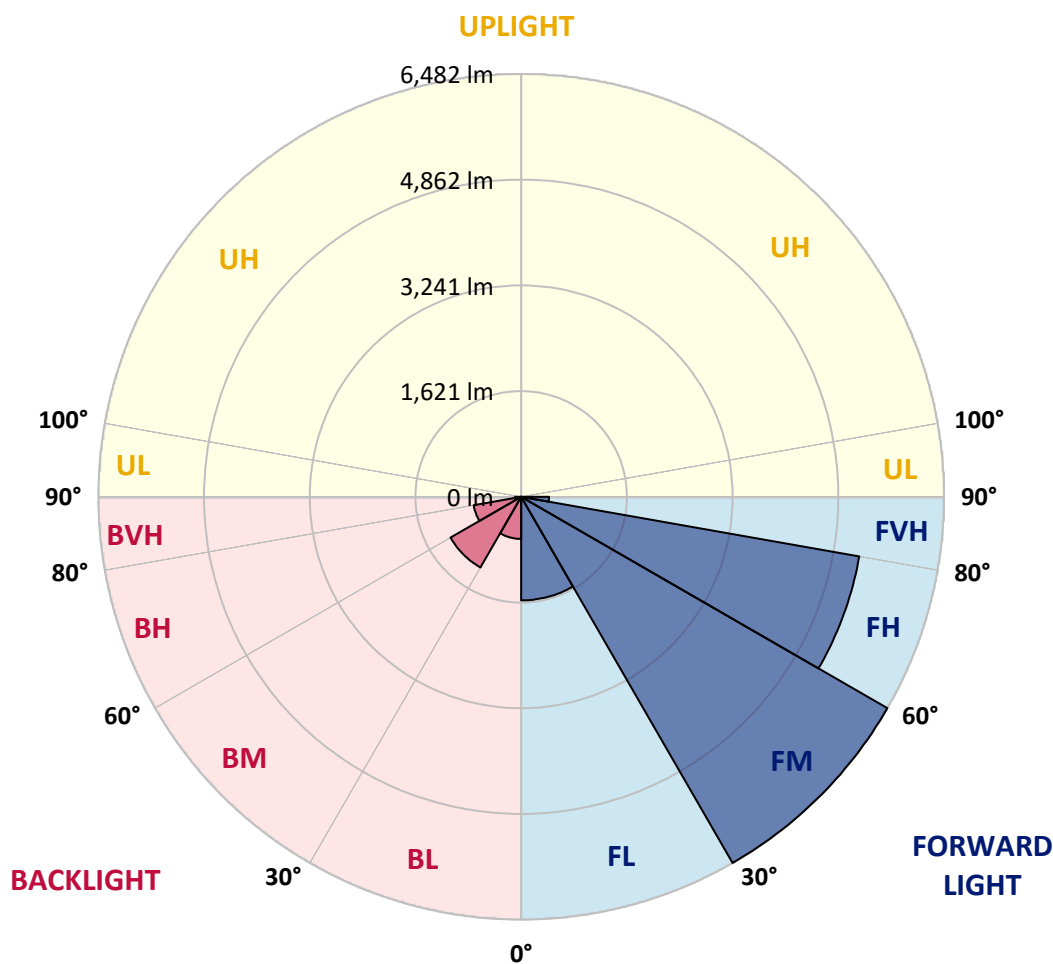
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1587.9	9.6			
FM	(30°-60°)	6482.1	39.3			
FH	(60°-80°)	5262.9	31.9			G3/7500
FVH	(80°-90°)	427.8	2.6			G3/500
BL	(0°-30°)	645.6	3.9	B2/1000		
BM	(30°-60°)	1250.3	7.6	B2/2500		
BH	(60°-80°)	739.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	93.1	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°	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0
2.5°	5788.5	5670.7	5475.0	5271.0	5146.7	5001.8	4888.5	4788.8	4589.3	4550.3	4585.7
5°	5443.2	5206.6	4837.7	4466.1	4218.6	3953.0	3746.4	3580.4	3327.6	3283.1	3336.7
7.5°	4889.4	4606.6	4118.8	3644.8	3294.9	2963.2	2740.2	2562.5	2364.9	2279.7	2285.1
10°	4411.7	4092.7	3516.1	3000.4	2713.9	2490.0	2302.4	2120.1	1919.9	1788.5	1752.2
12.5°	4144.3	3777.2	3112.7	2652.3	2386.7	2151.0	1948.8	1753.9	1540.0	1405.9	1367.8
15°	4098.0	3699.2	2961.4	2429.3	2096.5	1798.4	1560.0	1342.5	1122.2	1013.4	990.8
17.5°	4298.4	3838.9	2912.5	2230.7	1823.7	1455.8	1162.9	920.1	740.6	686.1	681.7
20°	4682.8	4107.0	2906.1	2044.0	1554.5	1123.0	810.3	633.6	554.7	539.3	540.3
22.5°	5222.0	4523.2	2984.0	1903.6	1307.1	837.6	609.1	530.2	499.5	485.0	485.0
25°	5920.0	5096.1	3163.5	1801.1	1092.3	669.0	537.5	490.3	461.4	451.5	453.2
27.5°	6596.2	5653.5	3372.0	1720.4	951.7	607.4	509.4	466.9	441.4	431.5	436.1
30°	7123.7	6148.4	3546.0	1610.7	880.2	590.1	519.4	476.0	439.7	424.3	425.1
32.5°	7560.6	6581.7	3692.0	1532.0	816.7	505.8	447.8	428.8	424.3	406.1	397.0
35°	8119.0	7054.0	3789.8	1533.7	786.7	451.5	398.8	365.3	340.8	320.0	320.0
37.5°	8773.5	7596.0	3894.1	1554.5	776.0	419.7	381.7	348.1	325.4	305.5	301.9
40°	9420.7	8127.1	3989.3	1574.5	769.6	400.7	367.9	337.2	316.3	296.4	290.9
42.5°	9970.9	8564.1	4074.5	1584.5	747.8	398.8	358.1	330.0	310.0	288.2	282.8
45°	10377.9	8930.3	4166.0	1599.9	726.0	406.1	358.1	329.1	304.7	283.7	278.3
47.5°	10741.4	9359.9	4319.2	1599.9	699.8	392.5	369.9	330.0	303.6	281.9	277.4
50°	11228.1	9949.1	4609.3	1562.7	662.6	378.0	389.7	326.3	295.5	278.3	272.8
52.5°	11898.9	10704.2	5069.7	1498.4	605.6	349.8	387.1	324.5	287.4	269.3	262.9
55°	12692.0	11512.7	5571.9	1423.1	520.3	330.0	373.4	320.0	278.3	258.3	252.0
57.5°	13311.2	12069.4	5925.4	1307.1	446.0	319.0	330.8	315.4	267.3	246.6	241.1
60°	13557.7	12047.6	6022.4	1152.1	409.7	310.0	289.2	353.6	258.3	237.5	231.2
62.5°	13424.4	11491.1	5750.6	1043.3	401.5	298.2	271.1	327.2	251.1	231.2	222.2
65°	12809.0	10504.8	5029.9	1014.4	425.1	286.5	259.3	256.5	241.1	222.2	213.0
67.5°	11468.3	9031.0	4027.3	1016.9	455.1	274.7	247.5	234.8	227.5	212.1	204.0
70°	9340.9	7140.1	3002.1	1024.3	470.5	261.0	234.8	221.1	213.0	197.6	192.2
72.5°	6868.1	5503.1	2181.0	977.1	473.2	245.7	217.5	205.7	197.6	181.3	176.8
75°	4699.0	4209.5	1512.8	809.5	412.5	223.9	198.6	187.6	182.3	162.2	159.5
77.5°	3432.7	3159.9	968.0	600.9	318.2	196.6	175.0	166.8	163.2	141.4	137.7
80°	2754.7	2500.0	605.6	411.6	232.9	165.0	146.9	142.4	138.6	116.9	114.1
82.5°	1910.8	1674.2	388.9	267.3	175.0	127.9	116.1	114.1	108.8	88.8	86.1
85°	1007.9	909.1	246.6	182.3	126.8	88.0	80.7	80.7	77.9	58.9	57.2
87.5°	128.7	209.3	125.1	95.2	69.8	39.0	39.0	38.0	40.8	33.6	29.0
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°	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0
2.5°	4502.3	4545.8	4504.1	4506.8	4553.1	4690.8	4753.5	4805.1	4860.4	4896.6	4913.0
5°	3263.2	3364.7	3399.2	3471.7	3578.7	3754.4	3824.3	3875.1	3908.6	3928.5	3936.7
7.5°	2231.6	2293.4	2362.1	2479.1	2712.1	2815.4	2861.6	2849.8	2811.8	2798.2	2784.6
10°	1682.4	1657.9	1645.2	1709.6	1898.1	2002.2	2035.0	2003.3	1982.4	1986.9	2009.6
12.5°	1303.5	1260.9	1209.2	1202.0	1326.1	1419.5	1440.4	1442.1	1480.3	1513.8	1563.6
15°	949.9	945.4	920.1	904.6	975.3	1051.5	1060.6	1076.9	1111.2	1135.8	1179.2
17.5°	669.9	694.4	714.2	724.3	777.7	832.1	822.1	814.0	807.7	807.7	828.5
20°	540.3	556.5	582.0	611.0	665.3	703.4	678.9	646.3	622.8	615.4	618.2
22.5°	486.7	499.5	513.9	539.3	588.3	614.6	588.3	564.8	541.2	532.9	530.2
25°	459.6	476.0	489.5	508.5	544.7	562.9	537.5	520.3	505.8	495.8	488.6
27.5°	444.1	458.7	462.2	471.4	502.1	518.4	505.8	498.6	489.5	480.4	471.4
30°	427.9	425.1	418.8	419.7	444.1	460.5	459.6	461.4	460.5	457.8	455.9
32.5°	390.7	385.2	379.7	385.2	407.9	422.4	423.3	426.9	426.9	426.0	433.3
35°	325.4	335.4	341.8	358.1	385.2	397.9	392.5	383.4	367.1	357.2	356.1
37.5°	300.9	302.7	313.7	336.3	366.2	378.0	369.9	349.0	338.1	336.3	339.0
40°	289.2	290.9	297.3	318.2	348.1	359.9	352.6	337.2	327.2	326.3	330.8
42.5°	281.1	282.8	286.5	300.9	325.4	339.9	340.8	330.0	318.2	319.0	323.6
45°	276.4	277.4	276.4	283.7	306.4	323.6	330.8	323.6	313.7	315.4	320.9
47.5°	275.6	272.8	269.3	271.1	294.6	311.8	320.9	318.2	313.7	315.4	320.0
50°	271.9	265.6	261.0	260.1	283.7	301.9	310.0	310.0	311.8	315.4	320.0
52.5°	261.0	253.8	253.8	251.1	276.4	293.7	299.2	300.0	302.7	309.1	315.4
55°	247.5	244.7	247.5	242.9	271.1	287.4	290.1	291.8	293.7	299.2	308.2
57.5°	235.7	232.0	238.4	236.5	266.5	281.1	281.1	284.6	284.6	291.8	299.2
60°	229.3	222.2	224.7	226.6	260.1	275.6	273.7	277.4	279.1	285.5	290.9
62.5°	221.1	214.8	214.8	219.4	252.9	267.3	266.5	269.3	276.4	278.3	283.7
65°	211.2	208.4	205.7	211.2	245.7	258.3	259.3	262.9	269.3	271.1	275.6
67.5°	201.2	202.1	196.6	202.1	239.3	249.2	249.2	256.5	259.3	262.9	267.3
70°	190.3	191.3	186.8	193.1	234.8	239.3	238.4	248.3	250.2	252.9	257.5
72.5°	176.8	176.8	175.0	184.0	227.5	229.3	227.5	235.7	236.5	239.3	241.1
75°	162.2	162.2	160.4	173.1	223.0	218.4	213.0	219.4	221.1	223.0	223.0
77.5°	143.2	145.0	145.0	160.4	207.6	213.9	195.8	199.4	202.1	203.0	200.3
80°	119.6	124.2	125.9	146.0	174.0	197.6	175.0	177.6	178.5	178.5	175.0
82.5°	91.6	99.8	104.3	125.9	133.3	165.8	152.3	155.0	152.3	146.9	145.0
85°	63.5	74.3	79.8	96.0	100.6	127.9	126.8	126.8	121.5	114.1	113.3
87.5°	34.4	40.8	44.5	57.2	69.0	86.1	93.4	90.6	86.1	81.6	82.5
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0
2.5°	4998.2	5121.4	5318.0	5468.5	5620.0	5765.9	5923.6	6044.2	6146.6	6186.5	6308.0
5°	4019.2	4173.2	4359.1	4694.5	4932.0	5193.9	5496.8	5897.4	6051.5	6264.5	6613.5
7.5°	2841.8	2981.2	3280.4	3551.5	3887.8	4258.5	4667.3	5220.2	5422.3	5764.1	6332.4
10°	2122.1	2284.3	2524.4	2752.9	3049.3	3428.2	3897.8	4515.9	4761.5	5132.4	5786.7
12.5°	1709.6	1900.8	2155.5	2370.4	2599.8	2867.1	3323.0	4001.1	4330.1	4654.6	5316.3
15°	1313.4	1513.8	1750.4	2023.2	2276.1	2564.4	3042.0	3783.5	4162.3	4500.5	5065.3
17.5°	909.1	1080.5	1378.8	1663.4	1986.9	2355.8	2964.1	3829.7	4282.1	4671.8	5108.8
20°	644.5	742.4	987.1	1317.0	1720.4	2183.6	2949.6	4072.6	4660.9	5106.0	5387.9
22.5°	542.0	578.3	720.7	1023.3	1489.3	2054.9	3000.4	4413.5	5172.3	5740.5	5833.1
25°	494.0	515.8	590.1	803.0	1283.6	1961.5	3171.7	4921.0	5804.8	6375.1	6358.7
27.5°	467.7	490.3	539.3	678.1	1128.5	1903.6	3343.0	5522.9	6528.2	7063.9	6860.9
30°	459.6	490.3	542.0	639.0	1018.0	1811.9	3483.5	6051.5	7084.8	7528.9	7089.3
32.5°	453.2	457.8	481.3	551.1	912.8	1705.0	3578.7	6525.5	7629.6	7971.2	7418.3
35°	366.2	388.9	426.9	494.0	851.1	1640.6	3578.7	6934.3	8166.1	8418.2	7731.9
37.5°	352.6	372.6	406.1	463.2	816.7	1609.0	3507.0	7328.6	8714.5	8924.9	7990.3
40°	345.4	361.6	393.5	439.7	802.2	1572.7	3402.8	7676.7	9250.2	9432.5	8231.4
42.5°	339.9	354.4	384.4	425.1	783.2	1532.8	3318.5	7955.8	9715.3	9865.8	8461.7
45°	337.2	352.6	385.2	432.3	745.1	1480.3	3290.4	8257.7	10097.8	10227.4	8710.9
47.5°	337.2	355.3	389.7	447.8	699.8	1425.9	3378.3	8655.6	10459.5	10522.9	9004.6
50°	334.5	354.4	402.5	432.3	633.6	1357.0	3585.1	9156.9	10851.1	10858.3	9376.3
52.5°	329.1	352.6	433.3	423.3	557.4	1266.4	3864.2	9800.4	11430.2	11473.8	9958.2
55°	322.7	349.8	425.1	402.5	495.0	1158.4	4092.7	10582.8	12244.2	12364.8	10813.9
57.5°	314.5	346.3	411.6	373.4	454.1	1019.7	4175.2	11155.6	12812.7	13115.4	11778.3
60°	307.2	343.5	371.6	356.1	428.8	902.8	4015.5	11042.3	12773.6	13426.3	12633.1
62.5°	300.0	346.3	339.0	345.4	417.0	827.5	3598.6	10135.0	12127.3	13105.4	13266.7
65°	291.8	321.8	320.0	336.3	414.2	797.7	2983.1	8774.4	10878.3	12091.0	13416.3
67.5°	281.1	297.3	306.4	324.5	423.3	771.4	2407.5	7238.0	9142.4	10571.0	12636.7
70°	269.3	282.8	292.9	310.0	417.9	759.6	2002.2	5707.9	7254.3	8663.8	11098.5
72.5°	253.8	265.6	274.7	290.9	412.5	753.3	1691.5	4596.5	5416.0	6435.8	9023.6
75°	235.7	246.6	252.9	269.3	395.2	689.8	1329.8	3889.5	4052.8	4476.9	7187.2
77.5°	214.8	223.0	228.5	246.6	349.8	573.8	961.7	3000.4	3147.2	3250.5	5510.3
80°	190.3	198.6	201.2	218.4	290.1	448.7	627.2	2216.3	2354.0	2377.6	3598.6
82.5°	162.2	170.5	170.5	186.8	237.5	322.7	411.6	1518.2	1545.5	1625.2	2543.4
85°	130.6	136.9	136.9	145.0	184.0	241.1	282.8	762.3	754.2	861.1	2203.5
87.5°	93.4	97.9	102.3	104.3	131.4	159.5	170.5	232.0	153.2	175.8	1414.9
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°	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0
2.5°	6399.6	6451.2	6398.6	6360.5	6196.4	6061.3	5881.0	5788.5
5°	6879.0	7010.4	6966.1	6806.6	6463.9	6078.6	5640.8	5443.2
7.5°	6820.9	7126.4	7133.7	6835.5	6330.6	5763.2	5170.3	4889.4
10°	6369.6	6760.3	6871.8	6582.7	6046.9	5412.3	4732.6	4411.7
12.5°	5865.6	6248.1	6333.3	6233.6	5785.9	5148.7	4458.8	4144.3
15°	5453.1	5624.4	5726.1	5813.0	5562.0	5043.4	4443.3	4098.0
17.5°	5202.1	5183.0	5212.1	5363.4	5406.0	5164.0	4679.0	4298.4
20°	5111.4	4820.5	4813.2	5021.7	5332.6	5451.4	5139.5	4682.8
22.5°	5161.3	4690.0	4630.1	4877.6	5371.6	5865.6	5743.2	5222.0
25°	5333.5	4700.8	4652.8	4892.1	5513.0	6307.0	6395.0	5920.0
27.5°	5604.6	4769.7	4706.3	4951.9	5700.6	6677.8	7036.8	6596.2
30°	5862.0	4889.4	4810.4	5069.7	5871.9	6824.7	7430.1	7123.7
32.5°	6174.7	5113.3	4974.6	5286.4	6084.1	7058.4	7780.9	7560.6
35°	6481.0	5432.4	5260.1	5620.9	6320.6	7349.5	8181.6	8119.0
37.5°	6817.3	5849.3	5706.9	6053.3	6644.3	7624.1	8692.7	8773.5
40°	7176.3	6402.3	6233.6	6684.2	7146.4	7968.6	9226.7	9420.7
42.5°	7538.1	7015.9	6814.6	7271.5	7698.4	8308.5	9683.5	9970.9
45°	7952.2	7682.1	7587.0	8081.0	8228.8	8632.0	10020.7	10377.9
47.5°	8434.5	8438.1	8591.3	8789.0	8763.4	8998.3	10359.8	10741.4
50°	8997.4	9381.6	9719.8	9851.3	9314.7	9391.7	10830.3	11228.1
52.5°	9673.6	10510.2	10928.9	10842.9	9908.4	9872.1	11575.3	11898.9
55°	10519.3	11705.0	12121.0	12059.4	10590.9	10526.6	12503.5	12692.0
57.5°	11498.2	12862.4	13245.0	12967.7	11410.4	11244.4	13271.2	13311.2
60°	12358.5	13779.8	14115.2	13807.8	12237.0	12008.5	13750.8	13557.7
62.5°	12837.1	14090.7	14326.4	13995.4	12803.5	12822.5	13855.9	13424.4
65°	12623.2	13304.8	13381.0	13353.7	12657.5	13294.7	13477.9	12809.0
67.5°	11452.0	11317.8	11445.7	11622.5	11406.6	12673.0	12431.0	11468.3
70°	9388.9	8652.0	8906.7	9025.5	9123.3	10905.3	10789.5	9340.9
72.5°	7075.7	6061.3	6262.6	6238.1	6691.4	8747.2	8391.0	6868.1
75°	5013.6	4109.8	4135.3	4125.2	4669.0	6843.7	6075.9	4699.0
77.5°	3508.0	2977.7	2991.3	3047.5	3139.0	5161.3	4341.0	3432.7
80°	2412.0	2259.8	2335.0	2339.6	2175.5	3467.2	3207.0	2754.7
82.5°	1796.5	1570.8	1552.8	1579.1	1705.0	2809.0	2464.7	1910.8
85°	1471.1	930.1	747.8	937.2	1511.0	2781.8	1637.0	1007.9
87.5°	828.5	441.4	199.4	369.9	602.8	1841.9	473.2	128.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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