

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: P193053

Luminaire Tested: **GLEON-AF-05-LED-E1-SLR-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193053
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-05-LED-E1-SLR-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA 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: 16659.8 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 162
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

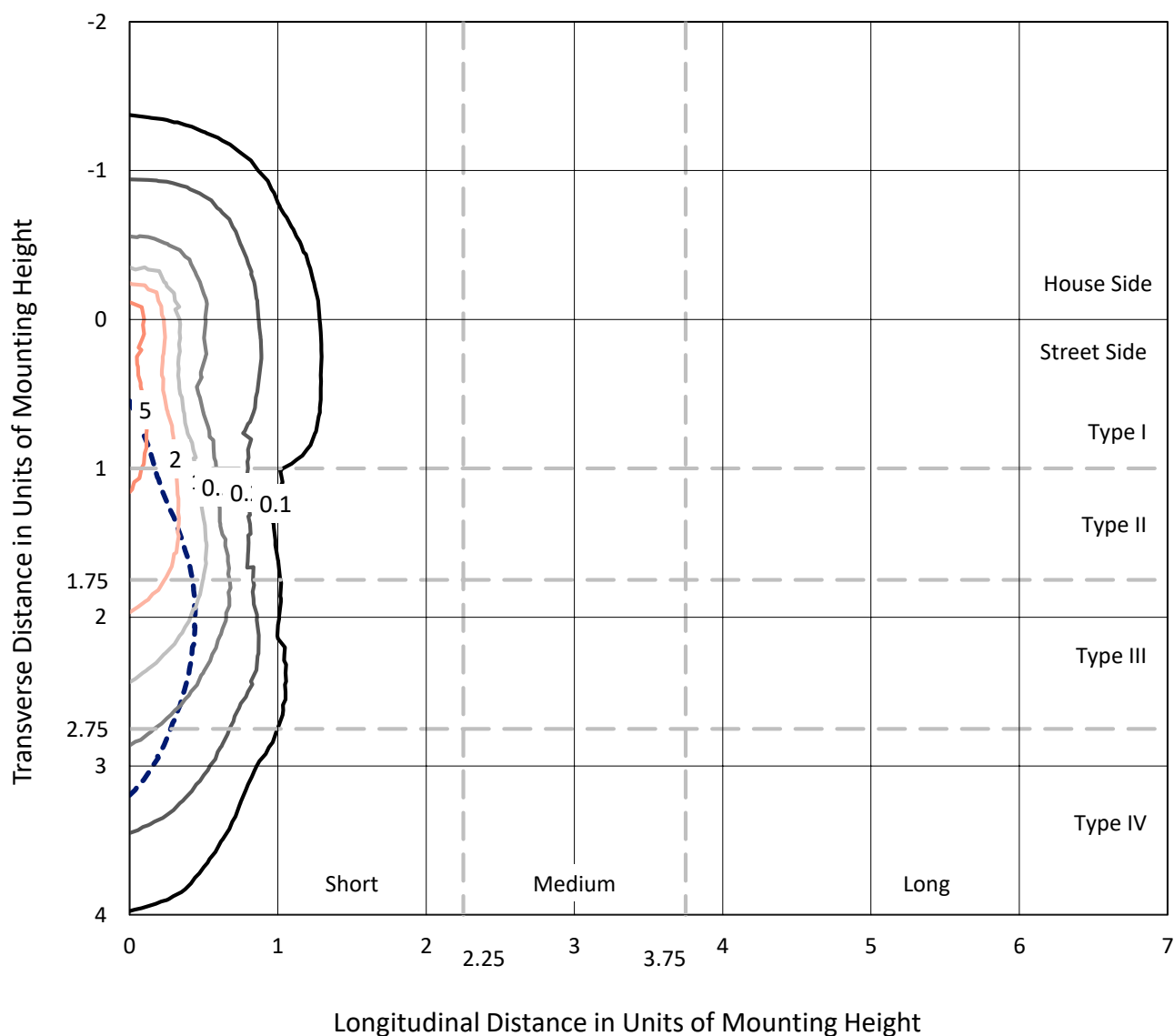


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

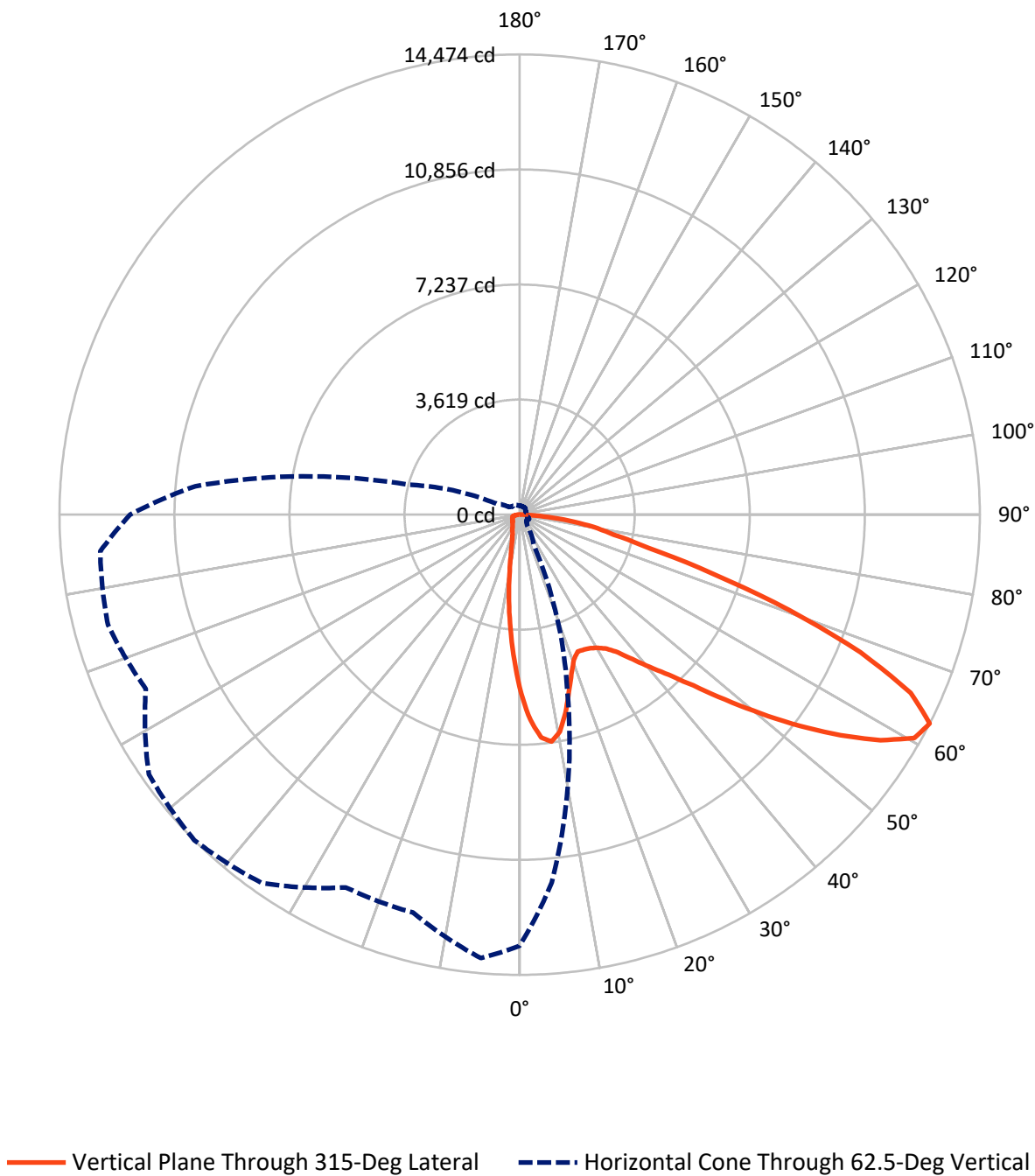


Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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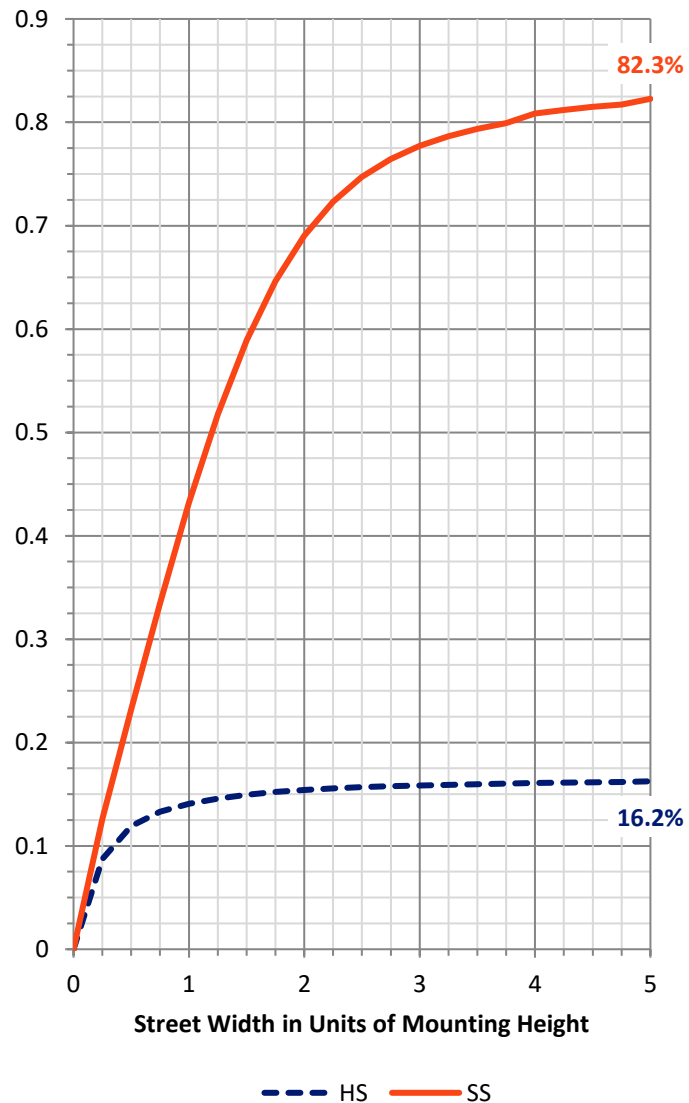
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2757.0	0.0	2757.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	13902.9	0.0	13902.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	16659.8	0.0	16659.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.7	2.5
10°-20°	751.3	4.5
20°-30°	1095.5	6.6
30°-40°	1687.2	10.1
40°-50°	2483.1	14.9
50°-60°	3642.1	21.9
60°-70°	4071.4	24.4
70°-80°	1993.3	12.0
80°-90°	526.3	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°	16659.8	100.0
0°-180°	16659.8	100.0

Coefficient of Utilization



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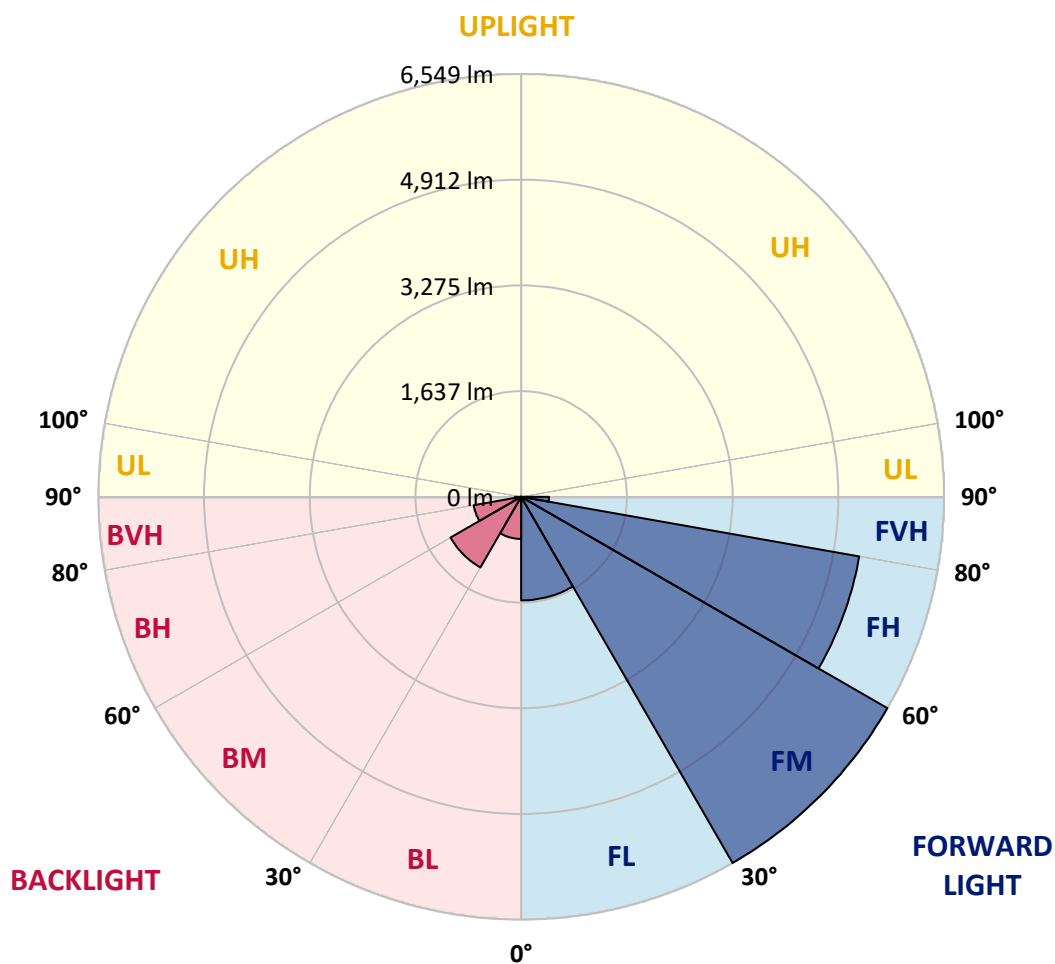
CATALOG NUMBER: GLEON-AF-05-LED-E1-SLR-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1604.3	9.6			
FM	(30°-60°)	6549.1	39.3			
FH	(60°-80°)	5317.2	31.9			G3/7500
FVH	(80°-90°)	432.2	2.6			G3/500
BL	(0°-30°)	652.3	3.9	B2/1000		
BM	(30°-60°)	1263.2	7.6	B2/2500		
BH	(60°-80°)	747.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	94.1	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°	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6
2.5°	5848.4	5729.3	5531.5	5325.6	5199.9	5053.5	4938.9	4838.2	4636.8	4597.4	4633.1
5°	5499.4	5260.4	4887.7	4512.2	4262.2	3993.9	3785.1	3617.5	3361.9	3317.1	3371.0
7.5°	4939.9	4654.1	4161.4	3682.5	3329.0	2993.8	2768.5	2589.0	2389.4	2303.3	2308.7
10°	4457.2	4134.9	3552.4	3031.4	2742.0	2515.7	2326.1	2142.1	1939.7	1806.9	1770.2
12.5°	4187.2	3816.2	3144.9	2679.7	2411.4	2173.2	1969.0	1772.0	1556.0	1420.5	1381.9
15°	4140.4	3737.4	2991.9	2454.4	2118.3	1817.0	1576.1	1356.4	1133.8	1023.9	1001.1
17.5°	4342.8	3878.4	2942.5	2253.8	1842.6	1470.8	1175.0	929.6	748.2	693.2	688.7
20°	4731.2	4149.5	2936.2	2065.1	1570.6	1134.6	818.8	640.1	560.5	544.8	545.9
22.5°	5276.0	4569.9	3014.9	1923.2	1320.6	846.2	615.4	535.7	504.6	489.9	489.9
25°	5981.2	5148.8	3196.2	1819.7	1103.5	675.9	543.1	495.5	466.1	456.0	457.9
27.5°	6664.4	5712.0	3406.8	1738.2	961.6	613.6	514.7	471.7	446.0	436.0	440.6
30°	7197.4	6211.9	3582.7	1627.4	889.3	596.2	524.8	480.8	444.1	428.7	429.5
32.5°	7638.9	6649.7	3730.1	1547.7	825.1	511.0	452.5	433.2	428.7	410.3	401.1
35°	8202.9	7126.9	3829.0	1549.6	795.0	456.0	402.9	369.1	344.3	323.3	323.3
37.5°	8864.2	7674.5	3934.3	1570.6	783.9	424.0	385.5	351.7	328.8	308.6	305.0
40°	9518.0	8211.2	4030.5	1590.9	777.5	404.8	371.8	340.7	319.6	299.5	294.0
42.5°	10073.9	8652.6	4116.6	1600.8	755.5	402.9	361.7	333.3	313.2	291.1	285.7
45°	10485.2	9022.6	4209.1	1616.4	733.5	410.3	361.7	332.4	307.7	286.7	281.2
47.5°	10852.4	9456.7	4363.9	1616.4	707.0	396.5	373.6	333.3	306.8	284.8	280.2
50°	11344.2	10052.0	4656.9	1578.9	669.4	381.9	393.8	329.8	298.6	281.2	275.7
52.5°	12021.9	10814.8	5122.2	1513.8	611.8	353.5	391.0	327.9	290.3	271.9	265.6
55°	12823.2	11631.7	5629.5	1437.9	525.6	333.3	377.3	323.3	281.2	261.0	254.6
57.5°	13448.7	12194.1	5986.7	1320.6	450.5	322.4	334.3	318.7	270.2	249.1	243.6
60°	13697.9	12172.1	6084.6	1164.0	414.0	313.2	292.2	357.2	261.0	240.0	233.5
62.5°	13563.2	11609.8	5810.0	1054.2	405.7	301.3	273.8	330.6	253.7	233.5	224.4
65°	12941.3	10613.3	5081.8	1024.8	429.5	289.4	261.9	259.2	243.6	224.4	215.2
67.5°	11586.8	9124.2	4069.0	1027.6	459.8	277.5	249.9	237.2	229.9	214.2	206.1
70°	9437.5	7213.9	3033.1	1034.9	475.3	263.8	237.2	223.4	215.2	199.6	194.2
72.5°	6939.2	5559.8	2203.4	987.2	478.0	248.2	219.8	207.9	199.6	183.1	178.5
75°	4747.6	4253.0	1528.5	817.8	416.8	226.1	200.6	189.6	184.1	163.9	161.1
77.5°	3468.2	3192.5	978.1	607.2	321.4	198.8	176.8	168.5	164.9	142.9	139.2
80°	2783.2	2525.8	611.8	415.7	235.4	166.7	148.4	143.7	140.1	118.1	115.4
82.5°	1930.5	1691.6	392.9	270.2	176.8	129.2	117.2	115.4	110.0	89.7	87.0
85°	1018.4	918.6	249.1	184.1	128.2	88.8	81.5	81.5	78.7	59.5	57.7
87.5°	130.0	211.5	126.4	96.1	70.5	39.4	39.4	38.5	41.2	33.9	29.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6
2.5°	4548.9	4592.8	4550.6	4553.4	4600.2	4739.3	4802.5	4854.7	4910.5	4947.3	4963.7
5°	3296.9	3399.5	3434.3	3507.6	3615.6	3793.3	3863.9	3915.1	3948.9	3969.2	3977.4
7.5°	2254.8	2317.1	2386.7	2504.8	2740.1	2844.6	2891.2	2879.3	2840.8	2827.1	2813.4
10°	1699.7	1675.1	1662.2	1727.3	1917.7	2023.1	2056.0	2023.9	2002.9	2007.4	2030.4
12.5°	1316.9	1273.9	1221.7	1214.4	1339.8	1434.1	1455.3	1457.1	1495.5	1529.4	1579.8
15°	959.8	955.2	929.6	914.0	985.4	1062.3	1071.5	1088.0	1122.7	1147.5	1191.5
17.5°	676.8	701.6	721.6	731.7	785.8	840.7	830.7	822.4	815.9	815.9	837.0
20°	545.9	562.3	588.0	617.2	672.2	710.6	685.9	653.0	629.2	621.8	624.6
22.5°	491.7	504.6	519.3	544.8	594.4	620.9	594.4	570.6	546.8	538.5	535.7
25°	464.4	480.8	494.5	513.7	550.4	568.7	543.1	525.6	511.0	501.0	493.7
27.5°	448.7	463.4	467.1	476.3	507.4	523.9	511.0	503.6	494.5	485.3	476.3
30°	432.2	429.5	423.1	424.0	448.7	465.2	464.4	466.1	465.2	462.5	460.6
32.5°	394.8	389.2	383.7	389.2	412.1	426.7	427.6	431.3	431.3	430.5	437.8
35°	328.8	338.8	345.3	361.7	389.2	402.1	396.5	387.5	370.9	360.9	359.9
37.5°	304.1	305.9	316.9	339.8	370.0	381.9	373.6	352.6	341.6	339.8	342.5
40°	292.2	294.0	300.4	321.4	351.7	363.7	356.3	340.7	330.6	329.8	334.3
42.5°	283.8	285.7	289.4	304.1	328.8	343.4	344.3	333.3	321.4	322.4	326.9
45°	279.3	280.2	279.3	286.7	309.5	326.9	334.3	326.9	316.9	318.7	324.2
47.5°	278.4	275.7	271.9	273.8	297.6	315.0	324.2	321.4	316.9	318.7	323.3
50°	274.8	268.3	263.8	262.9	286.7	305.0	313.2	313.2	315.0	318.7	323.3
52.5°	263.8	256.4	256.4	253.7	279.3	296.7	302.2	303.0	305.9	312.3	318.7
55°	249.9	247.3	249.9	245.4	273.8	290.3	293.1	294.9	296.7	302.2	311.4
57.5°	238.0	234.5	240.8	239.1	269.3	283.8	283.8	287.6	287.6	294.9	302.2
60°	231.7	224.4	227.2	229.0	262.9	278.4	276.5	280.2	282.1	288.5	294.0
62.5°	223.4	217.1	217.1	221.6	255.5	270.2	269.3	271.9	279.3	281.2	286.7
65°	213.4	210.7	207.9	213.4	248.2	261.0	261.9	265.6	271.9	273.8	278.4
67.5°	203.3	204.2	198.8	204.2	241.8	251.9	251.9	259.2	261.9	265.6	270.2
70°	192.3	193.3	188.7	195.0	237.2	241.8	240.8	251.0	252.7	255.5	260.0
72.5°	178.5	178.5	176.8	186.0	229.9	231.7	229.9	238.0	239.1	241.8	243.6
75°	163.9	163.9	162.1	175.0	225.3	220.7	215.2	221.6	223.4	225.3	225.3
77.5°	144.7	146.5	146.5	162.1	209.7	216.2	197.9	201.5	204.2	205.2	202.3
80°	120.8	125.4	127.3	147.5	175.8	199.6	176.8	179.5	180.4	180.4	176.8
82.5°	92.6	100.7	105.3	127.3	134.6	167.6	153.8	156.6	153.8	148.4	146.5
85°	64.1	75.1	80.7	97.0	101.6	129.2	128.2	128.2	122.7	115.4	114.5
87.5°	34.9	41.2	44.9	57.7	69.6	87.0	94.3	91.6	87.0	82.4	83.4
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6
2.5°	5049.9	5174.3	5373.1	5525.1	5678.1	5825.4	5984.9	6106.6	6210.2	6250.4	6373.2
5°	4060.7	4216.5	4404.1	4743.1	4983.0	5247.6	5553.5	5958.2	6113.9	6329.2	6681.7
7.5°	2871.2	3012.1	3314.4	3588.2	3928.0	4302.5	4715.5	5274.2	5478.4	5823.6	6397.9
10°	2143.8	2307.9	2550.5	2781.3	3080.8	3463.6	3938.0	4562.5	4810.8	5185.3	5846.6
12.5°	1727.3	1920.4	2177.7	2394.9	2626.6	2896.7	3357.4	4042.4	4374.8	4702.7	5371.3
15°	1327.1	1529.4	1768.5	2044.1	2299.6	2590.9	3073.5	3822.7	4205.4	4547.1	5117.6
17.5°	918.6	1091.6	1392.9	1680.5	2007.4	2380.2	2994.7	3869.3	4326.3	4720.1	5161.5
20°	651.1	750.1	997.3	1330.7	1738.2	2206.2	2980.0	4114.7	4709.1	5158.7	5443.7
22.5°	547.6	584.3	728.1	1033.9	1504.7	2076.2	3031.4	4459.1	5225.7	5799.8	5893.2
25°	499.1	521.0	596.2	811.4	1296.8	1981.9	3204.5	4972.0	5864.9	6441.0	6424.5
27.5°	472.5	495.5	544.8	685.0	1140.2	1923.2	3377.5	5580.1	6595.7	7137.0	6931.9
30°	464.4	495.5	547.6	645.6	1028.4	1830.7	3519.5	6113.9	7158.0	7606.7	7162.6
32.5°	457.9	462.5	486.3	556.7	922.2	1722.7	3615.6	6592.9	7708.5	8053.7	7495.0
35°	370.0	392.9	431.3	499.1	860.0	1657.6	3615.6	7006.0	8250.6	8505.2	7811.9
37.5°	356.3	376.4	410.3	467.9	825.1	1625.6	3543.3	7404.4	8804.6	9017.0	8072.9
40°	349.0	365.4	397.4	444.1	810.4	1588.9	3438.0	7756.0	9345.9	9529.9	8316.5
42.5°	343.4	358.1	388.3	429.5	791.2	1548.6	3352.8	8038.1	9815.8	9967.7	8549.1
45°	340.7	356.3	389.2	436.8	752.8	1495.5	3324.4	8343.0	10202.2	10333.0	8801.0
47.5°	340.7	359.0	393.8	452.5	707.0	1440.6	3413.3	8745.1	10567.5	10631.7	9097.7
50°	337.9	358.1	406.7	436.8	640.1	1370.9	3622.1	9251.5	10963.2	10970.5	9473.3
52.5°	332.4	356.3	437.8	427.6	563.2	1279.4	3904.2	9901.8	11548.3	11592.4	10061.1
55°	326.0	353.5	429.5	406.7	500.1	1170.3	4134.9	10692.1	12370.8	12492.6	10925.7
57.5°	317.8	349.8	415.7	377.3	458.8	1030.4	4218.3	11270.9	12945.0	13251.0	11900.1
60°	310.6	347.1	375.6	359.9	433.2	912.2	4057.1	11156.5	12905.7	13565.1	12763.6
62.5°	303.0	349.8	342.5	349.0	421.3	836.2	3635.8	10239.7	12252.7	13240.8	13403.8
65°	294.9	325.1	323.3	339.8	418.6	805.9	3013.9	8865.1	10990.7	12216.1	13554.9
67.5°	283.8	300.4	309.5	327.9	427.6	779.3	2432.4	7312.8	9236.9	10680.2	12767.4
70°	271.9	285.7	295.8	313.2	422.2	767.4	2023.1	5766.9	7329.2	8753.3	11213.3
72.5°	256.4	268.3	277.5	294.0	416.8	761.0	1709.0	4644.1	5472.0	6502.2	9116.9
75°	238.0	249.1	255.5	271.9	399.4	697.0	1343.5	3929.7	4094.6	4523.3	7261.5
77.5°	217.1	225.3	230.7	249.1	353.5	579.7	971.7	3031.4	3179.7	3284.2	5567.2
80°	192.3	200.6	203.3	220.7	293.1	453.3	633.7	2239.2	2378.3	2402.2	3635.8
82.5°	163.9	172.2	172.2	188.7	240.0	326.0	415.7	1534.0	1561.5	1642.0	2569.8
85°	131.8	138.3	138.3	146.5	186.0	243.6	285.7	770.2	762.0	870.0	2226.3
87.5°	94.3	98.9	103.5	105.3	132.8	161.1	172.2	234.5	154.8	177.6	1429.5
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°	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6
2.5°	6465.6	6517.9	6464.8	6426.3	6260.5	6124.1	5941.8	5848.4
5°	6950.1	7082.9	7038.1	6876.9	6530.7	6141.5	5699.1	5499.4
7.5°	6891.5	7200.1	7207.5	6906.2	6396.0	5822.8	5223.8	4939.9
10°	6435.5	6830.2	6942.8	6650.6	6109.4	5468.3	4781.5	4457.2
12.5°	5926.2	6312.7	6398.8	6298.0	5845.6	5201.9	4504.9	4187.2
15°	5509.5	5682.6	5785.2	5873.1	5619.4	5095.7	4489.4	4140.4
17.5°	5255.8	5236.6	5266.0	5418.8	5461.9	5217.3	4727.4	4342.8
20°	5164.2	4870.3	4863.0	5073.6	5387.7	5507.8	5192.6	4731.2
22.5°	5214.6	4738.5	4677.9	4928.0	5427.1	5926.2	5802.6	5276.0
25°	5388.6	4749.4	4700.9	4942.7	5570.0	6372.2	6461.0	5981.2
27.5°	5662.5	4819.0	4755.0	5003.1	5759.6	6746.8	7109.5	6664.4
30°	5922.6	4939.9	4860.2	5122.2	5932.7	6895.2	7506.9	7197.4
32.5°	6238.4	5166.1	5026.0	5341.0	6146.9	7131.5	7861.3	7638.9
35°	6548.1	5488.5	5314.5	5679.0	6385.9	7425.5	8266.1	8202.9
37.5°	6887.8	5909.8	5765.9	6115.8	6712.9	7702.9	8782.7	8864.2
40°	7250.6	6468.3	6298.0	6753.2	7220.3	8050.9	9322.1	9518.0
42.5°	7615.9	7088.4	6885.1	7346.7	7778.0	8394.4	9783.6	10073.9
45°	8034.5	7761.6	7665.4	8164.5	8313.7	8721.3	10124.3	10485.2
47.5°	8521.6	8525.3	8680.1	8879.7	8854.1	9091.3	10466.8	10852.4
50°	9090.4	9478.7	9820.3	9953.1	9410.9	9488.7	10942.1	11344.2
52.5°	9773.6	10618.9	11042.0	10955.0	10010.8	9974.2	11695.0	12021.9
55°	10627.9	11825.9	12246.4	12184.0	10700.5	10635.4	12632.8	12823.2
57.5°	11617.1	12995.4	13381.8	13101.6	11528.3	11360.7	13408.4	13448.7
60°	12486.2	13922.3	14261.1	13950.6	12363.4	12132.7	13892.9	13697.9
62.5°	12969.7	14236.4	14474.4	14140.3	12935.9	12955.1	13999.2	13563.2
65°	12753.7	13442.2	13519.3	13491.8	12788.5	13432.3	13617.2	12941.3
67.5°	11570.4	11434.8	11564.0	11742.5	11524.5	12804.0	12559.5	11586.8
70°	9486.0	8741.4	8998.8	9118.8	9217.6	11018.1	10900.9	9437.5
72.5°	7148.9	6124.1	6327.3	6302.6	6760.5	8837.7	8477.7	6939.2
75°	5065.4	4152.3	4178.0	4167.9	4717.4	6914.4	6138.7	4747.6
77.5°	3544.2	3008.5	3022.2	3078.9	3171.5	5214.6	4385.8	3468.2
80°	2437.0	2283.1	2359.1	2363.8	2198.0	3503.0	3240.2	2783.2
82.5°	1815.2	1587.1	1568.8	1595.3	1722.7	2838.1	2490.1	1930.5
85°	1486.4	939.6	755.5	947.0	1526.7	2810.5	1653.9	1018.4
87.5°	837.0	446.0	201.5	373.6	609.0	1860.9	478.0	130.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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