

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: P193831

Luminaire Tested: **GLEON-AF-03-LED-E1-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193831
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-03-LED-E1-SLL-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13032 lumens
Efficiency: N/A
Efficacy: 78.5 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

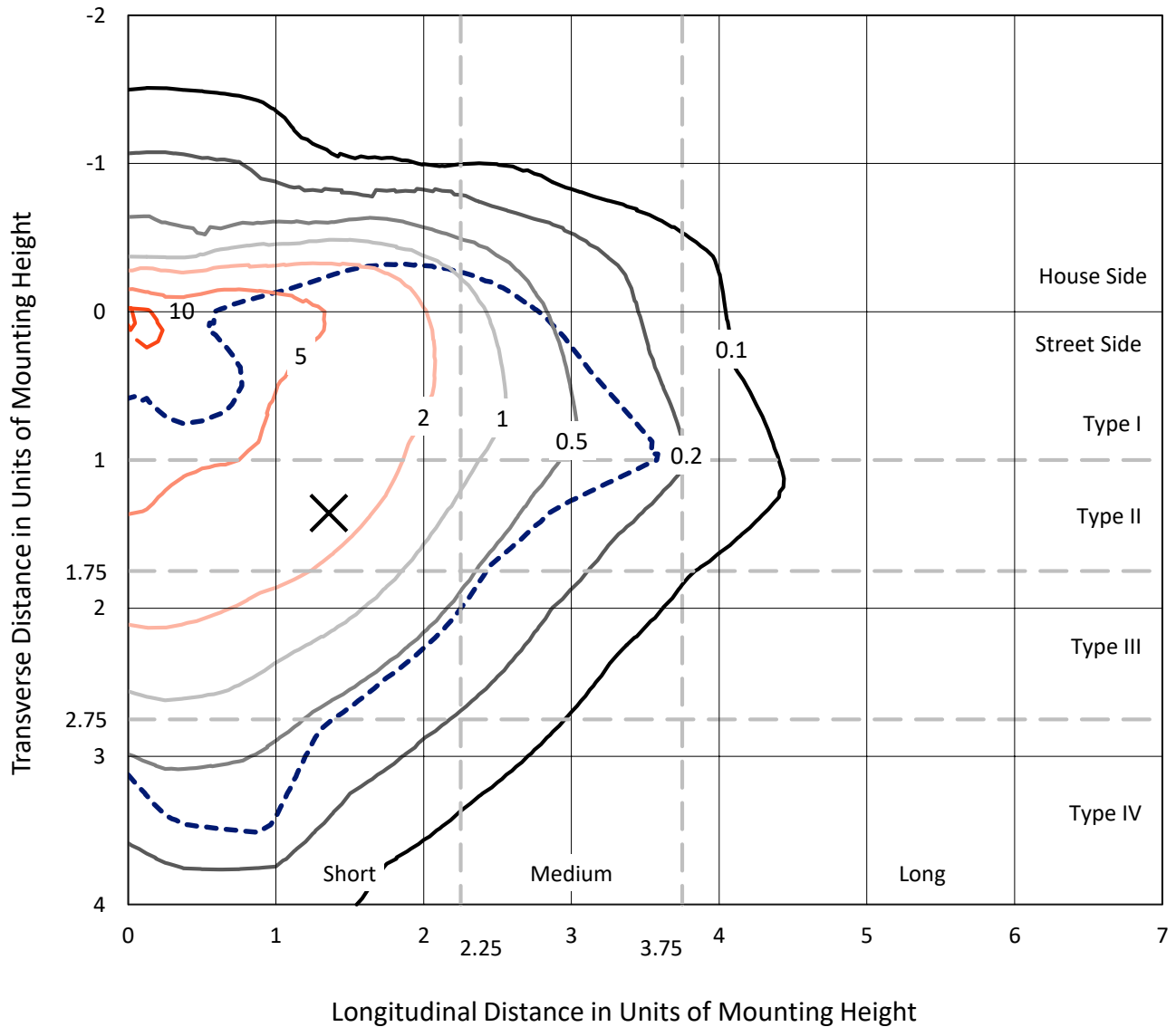
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

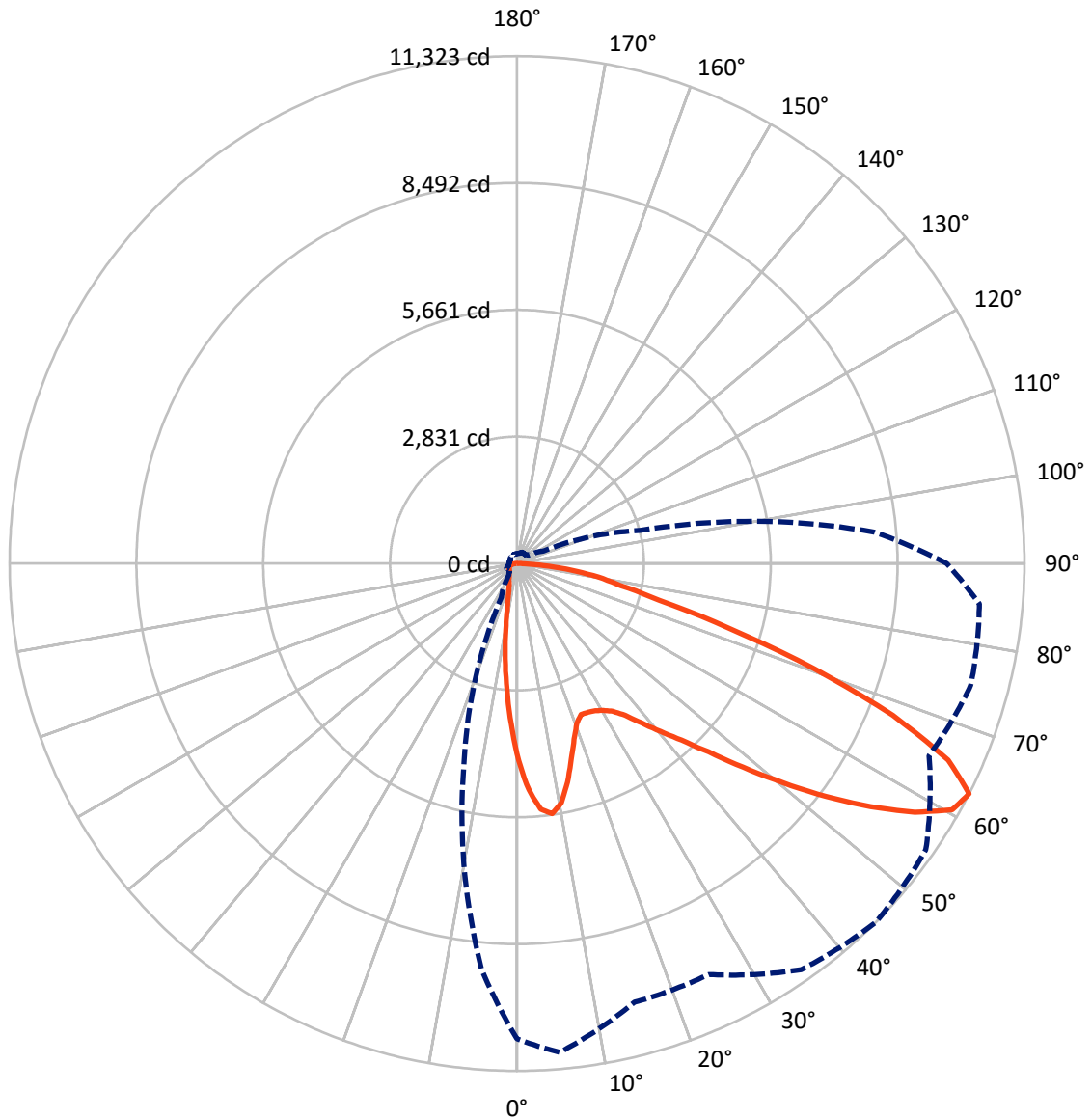
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2156.6	0.0	2156.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	10875.4	0.0	10875.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	13032.0	0.0	13032.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.5	2.5
10°-20°	587.7	4.5
20°-30°	856.9	6.6
30°-40°	1319.8	10.1
40°-50°	1942.4	14.9
50°-60°	2849.0	21.9
60°-70°	3184.8	24.4
70°-80°	1559.2	12.0
80°-90°	411.7	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°	13032.0	100.0
0°-180°	13032.0	100.0



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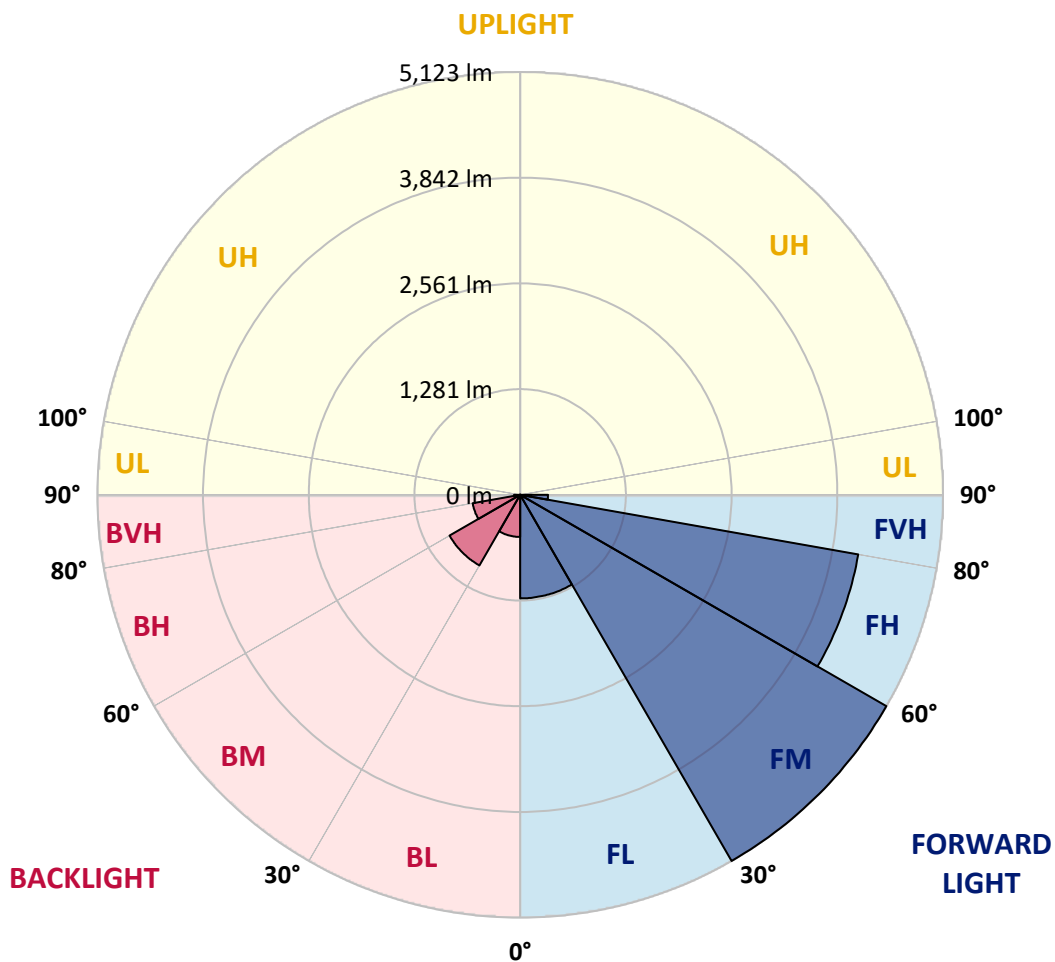
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1254.9	9.6			
FM	(30°-60°)	5123.0	39.3			
FH	(60°-80°)	4159.4	31.9			G2/5000
FVH	(80°-90°)	338.1	2.6			G3/500
BL	(0°-30°)	510.2	3.9	B2/1000		
BM	(30°-60°)	988.1	7.6	B1/1000		
BH	(60°-80°)	584.7	4.5	B2/1000		G2/1000
BVH	(80°-90°)	73.6	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°	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9
2.5°	4574.8	4647.9	4790.5	4897.2	5026.9	5057.0	5098.5	5057.7	4985.3	4889.3	4857.8
5°	4301.9	4458.1	4804.1	5108.6	5379.3	5505.4	5540.5	5436.7	5226.8	4950.9	4782.6
7.5°	3864.2	4086.3	4554.8	5003.2	5402.3	5638.0	5632.2	5390.8	5004.7	4555.5	4285.4
10°	3486.7	3740.3	4277.5	4779.0	5202.4	5430.9	5342.8	5034.0	4573.4	4056.2	3763.2
12.5°	3275.3	3523.9	4069.1	4572.7	4926.6	5005.4	4938.1	4635.7	4201.6	3678.6	3422.2
15°	3238.8	3511.7	3986.0	4395.7	4594.2	4525.4	4445.2	4309.8	4003.2	3556.9	3289.6
17.5°	3397.1	3698.0	4081.3	4272.5	4238.9	4119.2	4096.3	4111.3	4037.6	3692.3	3384.2
20°	3700.9	4061.9	4308.3	4214.5	3968.8	3804.0	3809.7	4039.7	4258.2	4035.4	3683.7
22.5°	4127.1	4539.0	4635.7	4245.3	3854.9	3659.3	3706.6	4079.1	4609.9	4536.9	4087.7
25°	4678.7	5054.1	4984.6	4357.1	3866.3	3677.2	3715.2	4215.2	5025.5	5038.3	4587.7
27.5°	5213.1	5561.3	5277.6	4505.4	3913.6	3719.5	3769.6	4429.4	5422.3	5582.8	5159.4
30°	5630.1	5872.2	5393.7	4640.8	4006.7	3801.9	3864.2	4632.9	5602.9	5950.3	5599.3
32.5°	5975.4	6149.5	5578.5	4808.4	4178.0	3931.5	4041.1	4880.0	5862.9	6299.9	6029.8
35°	6416.7	6466.1	5808.5	4995.4	4442.3	4157.2	4293.3	5122.2	6110.8	6653.1	6453.9
37.5°	6933.9	6870.1	6025.5	5251.1	4784.0	4510.4	4622.8	5387.9	6314.9	7053.5	6887.3
40°	7445.4	7292.1	6297.8	5648.0	5282.6	4926.6	5059.8	5671.6	6505.5	7454.7	7310.7
42.5°	7880.3	7653.2	6566.4	6084.3	5746.9	5385.8	5544.8	5957.5	6687.5	7797.2	7678.2
45°	8201.9	7919.7	6822.1	6503.4	6386.6	5996.2	6071.4	6284.9	6884.5	8083.0	7980.5
47.5°	8489.2	8187.6	7111.6	6926.0	6946.1	6789.9	6668.8	6666.0	7116.6	8316.5	8266.4
50°	8873.9	8559.4	7422.5	7361.6	7785.7	7681.8	7414.6	7110.9	7410.3	8581.6	8575.9
52.5°	9404.0	9148.3	7802.2	7830.8	8569.4	8637.5	8306.5	7645.3	7870.2	9068.0	9033.6
55°	10030.8	9881.8	8319.4	8370.3	9530.8	9579.5	9250.7	8313.7	8546.5	9772.2	9676.9
57.5°	10520.1	10488.6	8886.8	9017.9	10248.6	10467.8	10165.5	9087.4	9308.7	10365.4	10126.1
60°	10715.0	10867.6	9490.7	9671.2	10912.7	11155.6	10890.5	9767.2	9984.3	10611.1	10095.3
62.5°	10609.7	10950.7	10134.0	10119.0	11061.0	11322.5	11136.2	10145.5	10485.0	10357.5	9584.5
65°	10123.3	10652.0	10507.2	10003.6	10553.8	10575.3	10515.1	9976.4	10603.2	9555.9	8597.4
67.5°	9063.7	9824.5	10015.8	9015.0	9185.5	9045.8	8944.8	9050.8	9987.1	8354.5	7225.5
70°	7382.4	8527.1	8618.8	7210.4	7133.1	7039.2	6837.9	7420.3	8771.4	6847.2	5733.2
72.5°	5428.1	6631.6	6913.1	5288.4	4930.2	4949.5	4790.5	5592.1	7131.6	5086.3	4280.4
75°	3713.7	4801.9	5408.7	3690.1	3260.3	3268.2	3248.1	3962.3	5680.2	3538.2	3203.0
77.5°	2713.0	3430.8	4079.1	2480.8	2408.5	2364.1	2353.3	2772.4	4354.9	2569.0	2487.3
80°	2177.1	2534.6	2740.2	1719.3	1849.0	1845.4	1786.0	1906.3	2844.1	1879.1	1860.5
82.5°	1510.1	1947.9	2220.1	1347.5	1247.9	1227.2	1241.5	1419.9	2010.2	1284.5	1221.4
85°	796.6	1293.8	2198.6	1194.2	740.7	591.0	735.0	1162.7	1741.5	680.6	596.0
87.5°	101.7	374.0	1455.7	476.4	292.3	157.6	348.9	654.8	1118.3	139.0	121.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9
2.5°	4776.9	4681.6	4556.9	4441.6	4322.0	4203.0	4047.6	3950.2	3882.8	3869.9	3841.3
5°	4660.8	4344.2	4104.9	3897.9	3710.2	3445.1	3298.2	3176.5	3111.3	3104.8	3089.1
7.5°	4125.7	3688.7	3365.6	3072.6	2806.8	2592.6	2356.2	2245.9	2200.7	2211.5	2222.2
10°	3569.0	3080.5	2709.4	2409.9	2175.7	1995.1	1805.3	1677.1	1588.2	1570.3	1566.7
12.5°	3162.1	2626.3	2265.9	2054.6	1873.4	1703.6	1502.3	1351.1	1235.8	1196.4	1169.9
15°	2990.2	2404.2	2026.7	1798.8	1599.0	1383.3	1196.4	1038.0	932.0	897.6	878.3
17.5°	3026.7	2342.6	1861.9	1570.3	1314.6	1089.6	853.9	718.5	654.8	638.3	638.3
20°	3218.7	2331.1	1725.8	1359.7	1040.9	780.1	586.7	509.4	488.6	486.4	492.2
22.5°	3488.1	2371.2	1624.0	1177.0	808.8	569.5	457.1	428.4	419.1	421.2	427.7
25°	3889.3	2506.6	1550.3	1014.4	634.7	466.4	407.6	390.4	386.1	391.9	399.7
27.5°	4364.9	2642.0	1504.4	891.9	535.9	426.2	387.6	369.7	372.5	379.7	386.8
30°	4782.6	2753.1	1432.1	804.5	505.1	428.4	387.6	363.2	360.3	361.8	363.9
32.5°	5157.3	2828.3	1347.5	721.4	435.6	380.4	361.8	358.2	342.4	336.7	337.4
35°	5480.4	2828.3	1296.7	672.7	390.4	337.4	307.3	289.4	281.5	282.3	290.1
37.5°	5792.0	2771.7	1271.6	645.5	366.1	320.9	294.4	278.7	267.9	265.8	267.2
40°	6067.1	2689.3	1242.9	634.0	347.4	310.9	285.8	272.9	261.5	257.9	258.6
42.5°	6287.7	2622.7	1211.4	619.0	336.0	303.7	280.1	268.6	255.7	252.2	251.5
45°	6526.3	2600.5	1169.9	588.9	341.7	304.5	278.7	266.5	253.6	249.3	247.9
47.5°	6840.8	2670.0	1126.9	553.1	353.9	308.0	280.8	266.5	252.9	249.3	247.9
50°	7236.9	2833.3	1072.4	500.8	341.7	318.1	280.1	264.3	252.9	249.3	246.4
52.5°	7745.6	3054.0	1000.8	440.6	334.6	342.4	278.7	260.0	249.3	244.3	239.3
55°	8363.8	3234.5	915.5	391.1	318.1	336.0	276.5	255.0	243.6	236.4	232.1
57.5°	8816.6	3299.7	805.9	358.9	295.2	325.2	273.7	248.6	236.4	230.7	224.9
60°	8727.0	3173.6	713.5	338.9	281.5	293.7	271.5	242.9	230.0	225.7	220.6
62.5°	8009.9	2844.1	654.1	329.5	272.9	267.9	273.7	237.1	224.2	219.9	218.5
65°	6934.6	2357.6	630.4	327.4	265.8	252.9	254.3	230.7	217.8	214.2	212.8
67.5°	5720.3	1902.7	609.6	334.6	256.5	242.1	235.0	222.1	211.3	207.8	204.9
70°	4511.1	1582.5	600.3	330.3	245.0	231.4	223.5	212.8	203.5	199.9	197.7
72.5°	3632.8	1336.8	595.3	326.0	230.0	217.1	209.9	200.6	190.6	189.1	187.0
75°	3074.0	1050.9	545.2	312.3	212.8	199.9	194.9	186.3	176.2	176.2	174.8
77.5°	2371.2	760.1	453.5	276.5	194.9	180.5	176.2	169.8	158.3	160.5	159.8
80°	1751.6	495.7	354.6	229.2	172.6	159.0	156.9	150.4	138.3	141.1	141.1
82.5°	1199.9	325.2	255.0	187.7	147.6	134.7	134.7	128.2	114.6	116.1	120.4
85°	602.5	223.5	190.6	145.4	114.6	108.2	108.2	103.2	89.5	90.3	96.0
87.5°	183.4	134.7	126.1	103.9	82.4	81.0	77.4	73.8	65.2	64.5	68.1
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9
2.5°	3797.6	3756.7	3707.3	3598.4	3561.9	3559.7	3592.7	3558.3	3624.2	3596.3	3627.1
5°	3062.6	3022.4	2967.3	2828.3	2743.8	2686.4	2659.2	2579.0	2637.0	2594.8	2629.9
7.5°	2252.3	2261.6	2225.1	2143.4	1959.3	1866.9	1812.5	1763.7	1806.0	1801.7	1869.1
10°	1583.2	1608.3	1582.5	1500.1	1351.1	1300.2	1310.3	1329.6	1384.8	1413.4	1517.3
12.5°	1139.8	1138.3	1121.9	1048.1	949.9	955.7	996.5	1030.2	1081.0	1111.1	1217.1
15°	851.1	838.2	831.0	770.8	715.0	727.1	747.2	750.8	783.0	800.9	886.9
17.5°	643.3	649.8	657.6	614.7	572.4	564.5	548.8	529.4	538.7	542.3	585.3
20°	510.8	536.6	555.9	525.8	482.8	459.9	439.9	427.0	427.0	426.2	438.4
22.5°	446.3	464.9	485.7	464.9	426.2	406.2	394.7	384.7	383.3	383.3	394.7
25°	411.2	424.8	444.9	430.5	401.9	386.8	376.1	363.2	358.2	356.8	364.6
27.5°	394.0	399.7	409.8	396.9	372.5	365.4	362.5	351.0	344.6	341.0	348.9
30°	364.6	363.2	363.9	351.0	331.7	331.0	336.0	338.1	336.0	335.3	347.4
32.5°	337.4	334.6	333.8	322.4	304.5	300.2	304.5	308.8	313.8	320.9	335.3
35°	303.0	310.2	314.5	304.5	283.0	270.1	265.1	257.2	252.9	252.9	269.4
37.5°	275.8	292.3	298.7	289.4	265.8	247.9	239.3	237.8	238.6	241.4	257.2
40°	266.5	278.7	284.4	275.1	251.5	235.0	230.0	228.5	230.0	234.3	250.0
42.5°	260.8	269.4	268.6	257.2	237.8	226.4	223.5	222.1	223.5	227.8	245.0
45°	255.7	261.5	255.7	242.1	224.2	218.5	219.2	218.5	219.9	224.2	240.7
47.5°	251.5	253.6	246.4	232.8	214.2	212.8	215.6	217.8	219.2	222.8	240.0
50°	245.0	245.0	238.6	224.2	205.6	206.3	209.9	214.9	215.6	219.9	233.5
52.5°	237.1	236.4	232.1	218.5	198.4	200.6	200.6	206.3	207.8	212.8	227.1
55°	230.7	229.2	227.1	214.2	192.0	195.6	193.4	195.6	199.2	204.2	219.9
57.5°	224.9	222.1	222.1	210.6	187.0	188.4	183.4	186.3	190.6	194.9	211.3
60°	219.2	216.3	217.8	205.6	179.1	177.7	175.5	181.2	182.7	187.7	204.2
62.5°	212.8	210.6	211.3	199.9	173.4	169.8	169.8	174.8	175.5	182.7	198.4
65°	207.8	204.9	204.2	194.1	166.9	162.6	164.8	166.9	168.4	175.5	190.6
67.5°	202.7	197.0	197.0	189.1	159.8	155.5	159.8	159.0	161.2	167.6	179.8
70°	196.3	188.4	189.1	185.5	152.6	147.6	151.2	150.4	151.9	156.2	168.4
72.5°	186.3	179.8	181.2	179.8	145.4	138.3	139.7	139.7	139.7	143.3	156.2
75°	173.4	168.4	172.6	176.2	136.8	126.8	128.2	128.2	126.1	128.2	144.0
77.5°	157.6	154.7	169.1	164.1	126.8	114.6	114.6	113.2	108.9	111.8	128.9
80°	140.4	138.3	156.2	137.5	115.3	99.6	98.1	94.6	90.3	92.4	109.6
82.5°	122.5	120.4	131.1	105.3	99.6	82.4	78.8	72.4	68.1	70.2	86.0
85°	100.3	100.3	101.0	79.5	75.9	63.0	58.7	50.1	45.1	46.6	61.6
87.5°	71.6	73.8	68.1	54.4	45.1	35.1	32.2	27.2	22.9	26.5	32.2
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9	4402.9
2.5°	3784.7	3863.5	3953.0	4067.6	4165.8	4327.0	4481.7	4574.8
5°	2829.7	2960.8	3124.2	3334.1	3529.6	3823.4	4114.9	4301.9
7.5°	2025.2	2165.6	2341.9	2604.1	2880.6	3255.3	3640.7	3864.2
10°	1675.6	1819.6	1967.9	2144.9	2371.2	2778.9	3234.5	3486.7
12.5°	1386.2	1540.2	1700.0	1886.2	2096.1	2460.1	2985.2	3275.3
15°	1061.0	1232.9	1421.3	1657.0	1919.9	2340.4	2923.6	3238.8
17.5°	727.1	919.1	1150.5	1441.4	1763.0	2301.7	3033.9	3397.1
20°	500.8	640.4	887.6	1228.6	1615.5	2296.7	3245.9	3700.9
22.5°	419.1	481.4	661.9	1033.0	1504.4	2358.3	3574.8	4127.1
25°	387.6	424.8	528.7	863.2	1423.5	2500.2	4027.5	4678.7
27.5°	368.9	402.6	480.0	752.2	1359.7	2665.0	4468.1	5213.1
30°	376.1	410.5	466.4	695.6	1273.0	2802.5	4859.2	5630.1
32.5°	338.9	353.9	399.7	645.5	1210.7	2917.8	5201.7	5975.4
35°	288.7	315.2	356.8	621.8	1212.1	2995.2	5574.9	6416.7
37.5°	275.1	301.6	331.7	613.2	1228.6	3077.6	6003.3	6933.9
40°	266.5	290.9	316.6	608.2	1244.4	3152.8	6423.1	7445.4
42.5°	260.8	283.0	315.2	591.0	1252.2	3220.2	6768.4	7880.3
45°	260.0	283.0	320.9	573.8	1264.4	3292.5	7057.8	8201.9
47.5°	260.8	292.3	310.2	553.1	1264.4	3413.6	7397.4	8489.2
50°	257.9	308.0	298.7	523.7	1235.1	3642.8	7863.1	8873.9
52.5°	256.5	305.9	276.5	478.5	1184.2	4006.7	8459.8	9404.0
55°	252.9	295.2	260.8	411.2	1124.7	4403.6	9098.8	10030.8
57.5°	249.3	261.5	252.2	352.5	1033.0	4683.0	9538.7	10520.1
60°	279.4	228.5	245.0	323.8	910.5	4759.7	9521.5	10715.0
62.5°	258.6	214.2	235.7	317.4	824.6	4544.8	9081.6	10609.7
65°	202.7	204.9	226.4	336.0	801.6	3975.2	8302.2	10123.3
67.5°	185.5	195.6	217.1	359.6	803.8	3182.9	7137.4	9063.7
70°	174.8	185.5	206.3	371.8	809.5	2372.7	5643.0	7382.4
72.5°	162.6	171.9	194.1	374.0	772.3	1723.6	4349.2	5428.1
75°	148.3	156.9	176.9	326.0	639.7	1195.6	3326.9	3713.7
77.5°	131.8	138.3	155.5	251.5	475.0	765.1	2497.3	2713.0
80°	112.5	116.1	130.4	184.1	325.2	478.5	1975.8	2177.1
82.5°	90.3	91.7	101.0	138.3	211.3	307.3	1323.2	1510.1
85°	63.8	63.8	69.5	100.3	144.0	194.9	718.5	796.6
87.5°	30.1	30.8	30.8	55.2	75.2	98.9	165.5	101.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)