

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: P529069

Luminaire Tested: **GALN-SA4B-722-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-722-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9148 lumens
Efficiency: N/A
Efficacy: 55.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

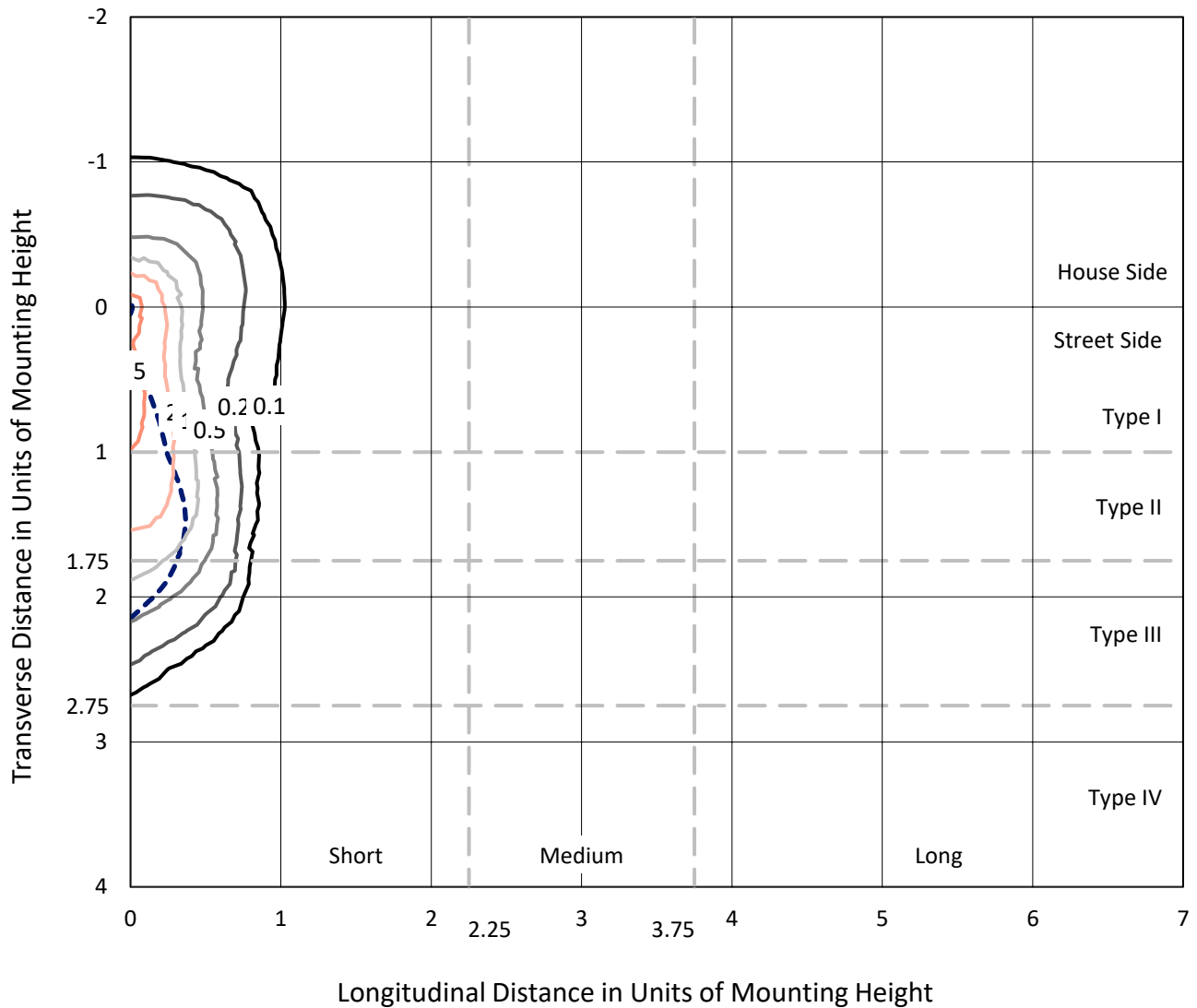
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

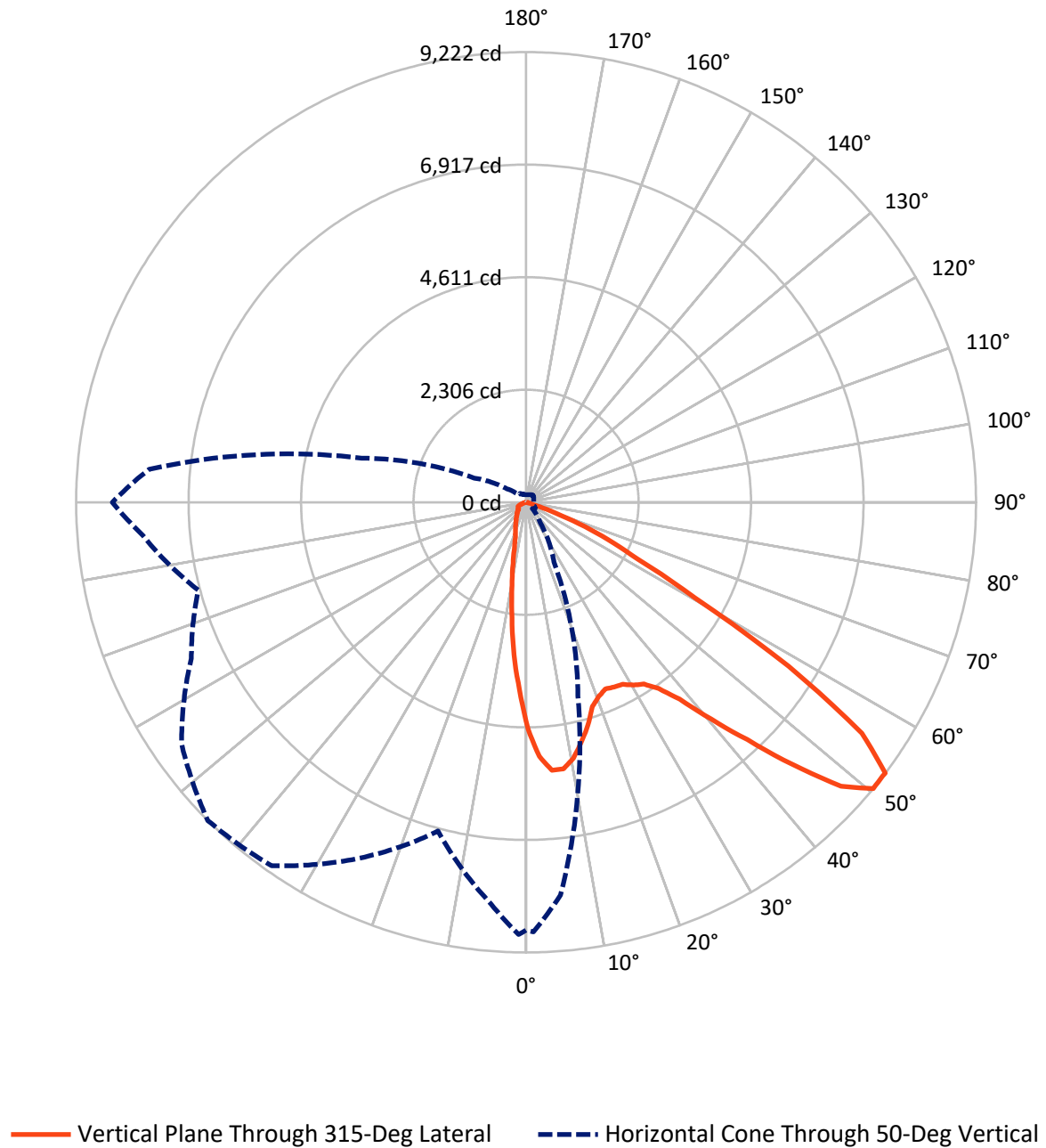
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1832.3	0.0	1832.3
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	7315.7	0.0	7315.7
	% Fixture	80.0	0.0	80.0
Total	Lumens	9148.0	0.0	9148.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.1	3.7
10°-20°	672.1	7.3
20°-30°	1009.6	11.0
30°-40°	1515.4	16.6
40°-50°	2129.8	23.3
50°-60°	2297.4	25.1
60°-70°	1066.7	11.7
70°-80°	100.4	1.1
80°-90°	18.5	0.2
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°	9148.0	100.0
0°-180°	9148.0	100.0

Coefficient of Utilization



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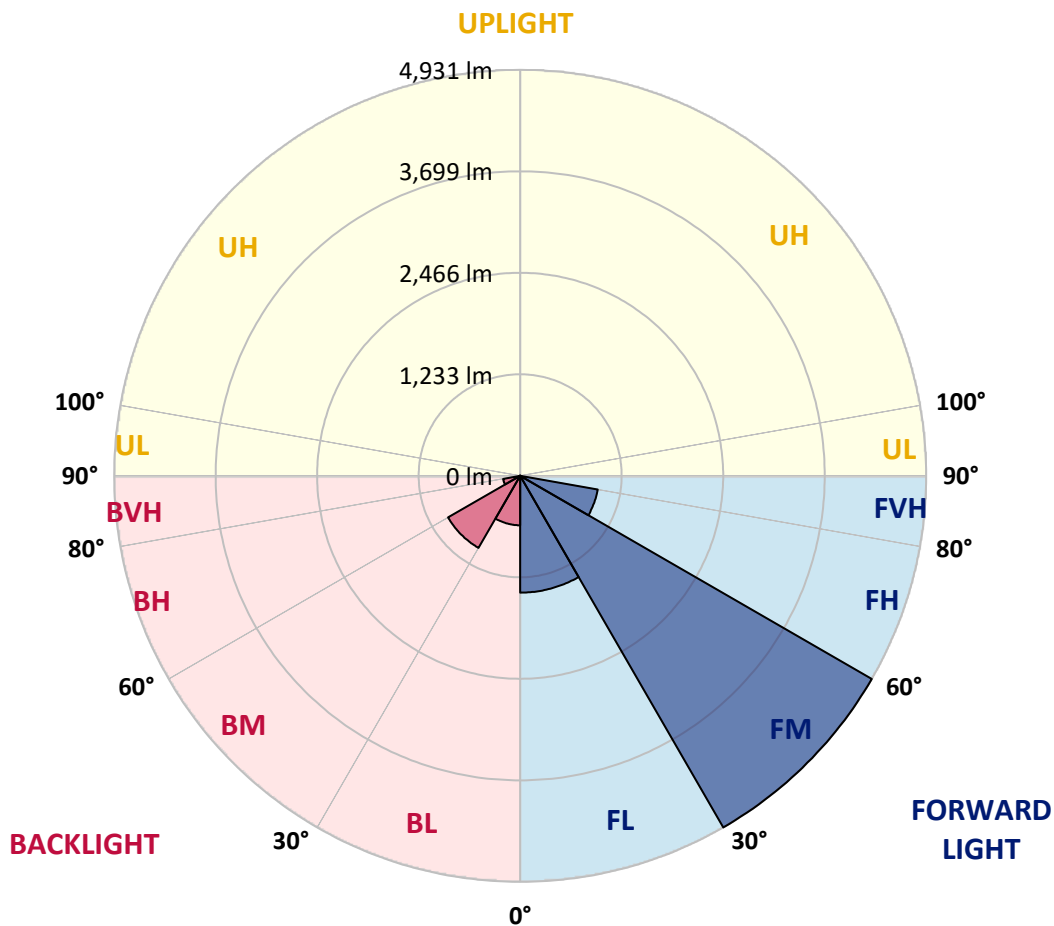
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1419.2	15.5			
FM (30°-60°)	4931.5	53.9			
FH (60°-80°)	956.6	10.5			G1/1800
FVH (80°-90°)	8.3	0.1			G0/10
BL (0°-30°)	600.6	6.6	B2/1000		
BM (30°-60°)	1011.2	11.1	B2/2500		
BH (60°-80°)	210.4	2.3	B1/500		G1/500
BVH (80°-90°)	10.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2
2.5°	4822.5	4748.1	4653.7	4575.7	4459.5	4225.4	4161.8	4085.6	4022.1	3936.8	3817.0
5°	4385.1	4361.5	4317.9	4023.9	3811.5	3528.4	3296.1	3198.1	3069.2	2963.9	2887.7
7.5°	4051.1	3956.7	3818.8	3523.0	3183.5	2880.4	2622.7	2472.1	2301.4	2243.4	2139.9
10°	3693.6	3715.3	3512.1	3096.4	2686.2	2441.2	2281.5	2136.3	1982.0	1880.4	1733.3
12.5°	3579.2	3508.4	3352.3	2838.7	2488.4	2259.7	2065.5	1885.8	1722.5	1559.1	1417.5
15°	3653.6	3544.7	3326.9	2784.2	2335.9	2051.0	1807.8	1564.5	1413.9	1205.2	1058.2
17.5°	3920.4	3833.3	3541.1	2842.3	2257.9	1851.3	1490.1	1239.7	1009.2	820.4	746.0
20°	4365.1	4241.7	3875.1	2916.7	2141.7	1609.9	1208.8	900.2	682.4	602.6	560.8
22.5°	4800.7	4733.6	4270.7	3060.1	2038.3	1395.7	907.5	606.2	510.0	495.5	468.3
25°	5630.2	5428.7	4875.1	3319.7	1958.4	1194.3	684.3	488.2	432.0	421.1	424.7
27.5°	6123.9	5955.1	5434.2	3492.1	1869.5	1040.0	579.0	448.3	410.2	386.6	377.5
30°	6597.6	6401.6	5711.9	3593.7	1678.9	876.7	513.7	430.2	421.1	386.6	375.7
32.5°	6962.4	6770.0	6113.0	3746.2	1600.8	771.4	422.9	335.8	312.2	308.6	341.2
35°	7521.4	7316.3	6456.0	3829.7	1541.0	716.9	366.6	299.5	272.3	261.4	263.2
37.5°	8042.4	7902.6	6773.7	3862.4	1477.4	700.6	328.5	268.6	245.0	237.8	236.0
40°	8478.0	8165.8	7074.9	3896.8	1450.2	669.7	304.9	245.0	228.7	217.8	217.8
42.5°	8677.6	8360.0	7412.5	3876.9	1442.9	620.7	304.9	225.1	212.4	201.5	199.7
45°	8634.0	8505.2	7563.2	3867.8	1442.9	571.7	277.7	219.6	201.5	186.9	183.3
47.5°	8746.6	8577.8	7751.9	3905.9	1413.9	537.2	234.1	230.5	190.6	172.4	168.8
50°	8766.5	8799.2	8080.5	4103.8	1350.4	493.7	183.3	226.9	183.3	156.1	152.5
52°	8897.2	8693.9	8180.3	4209.0	1283.2	461.0	154.3	194.2	176.1	145.2	141.6
52.5°	8717.5	8850.0	8203.9	4247.1	1290.5	439.2	148.8	190.6	172.4	145.2	136.1
55°	8516.1	8643.1	8107.7	4328.8	1183.4	344.9	116.2	137.9	156.1	127.1	121.6
57.5°	7401.6	7530.5	7045.9	3964.0	963.8	243.2	96.2	103.5	137.9	118.0	112.5
60°	6579.4	6486.9	5913.3	3307.0	684.3	136.1	76.2	79.9	150.6	108.9	107.1
62.5°	6013.2	5815.3	4942.3	2553.7	417.5	90.8	59.9	61.7	116.2	101.6	101.6
65°	4448.6	4227.2	3283.4	1544.6	205.1	63.5	45.4	49.0	72.6	87.1	87.1
67.5°	2539.2	2453.9	1586.3	697.0	85.3	39.9	34.5	38.1	56.3	70.8	67.2
70°	1167.1	1047.3	609.8	147.0	39.9	27.2	27.2	30.9	45.4	52.6	49.0
72.5°	341.2	323.1	148.8	23.6	16.3	16.3	18.2	23.6	34.5	39.9	36.3
75°	25.4	16.3	10.9	7.3	7.3	10.9	14.5	23.6	34.5	38.1	30.9
77.5°	1.8	3.6	1.8	1.8	5.4	10.9	16.3	29.0	45.4	47.2	34.5
80°	1.8	1.8	0.0	1.8	5.4	10.9	18.2	32.7	50.8	54.5	29.0
82.5°	0.0	0.0	0.0	1.8	7.3	14.5	21.8	34.5	47.2	58.1	30.9
85°	0.0	0.0	0.0	1.8	10.9	20.0	25.4	9.1	5.4	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2
2.5°	3902.3	3855.1	3837.0	3853.3	3847.8	3842.4	3942.2	3920.4	3916.8	3949.5	3942.2
5°	2929.4	2846.0	3074.6	2982.1	3078.3	3136.4	3147.2	3152.7	3219.8	3149.1	3241.6
7.5°	2087.3	2109.1	2107.2	2168.9	2279.7	2377.7	2435.8	2390.4	2386.8	2377.7	2337.7
10°	1668.0	1629.9	1622.6	1608.1	1642.6	1726.1	1796.9	1740.6	1700.7	1755.1	1738.8
12.5°	1363.1	1310.4	1281.4	1223.3	1225.1	1281.4	1281.4	1281.4	1321.3	1352.2	1375.8
15°	1045.5	1001.9	1001.9	943.8	931.1	932.9	962.0	965.6	1029.1	1047.3	1056.3
17.5°	731.5	707.9	735.1	758.7	744.2	747.8	758.7	762.3	771.4	764.1	782.3
20°	562.7	559.0	566.3	608.0	638.9	657.0	644.3	626.2	615.3	589.9	589.9
22.5°	477.4	484.6	497.3	531.8	571.7	582.6	568.1	526.4	493.7	490.1	491.9
25°	424.7	432.0	451.9	473.7	495.5	513.7	499.1	468.3	450.1	433.8	433.8
27.5°	392.0	395.7	406.6	422.9	441.0	455.6	450.1	433.8	413.8	406.6	390.2
30°	366.6	372.1	384.8	388.4	404.7	412.0	402.9	399.3	386.6	377.5	372.1
32.5°	353.9	352.1	361.2	364.8	366.6	372.1	361.2	366.6	364.8	350.3	344.9
35°	266.8	281.3	304.9	324.9	330.3	337.6	335.8	328.5	308.6	292.2	272.3
37.5°	239.6	248.7	261.4	277.7	299.5	308.6	304.9	286.8	263.2	252.3	248.7
40°	221.4	226.9	237.8	248.7	270.4	286.8	274.1	257.7	239.6	230.5	225.1
42.5°	205.1	206.9	212.4	223.2	239.6	265.0	243.2	221.4	214.2	208.7	205.1
45°	186.9	186.9	194.2	199.7	217.8	241.4	219.6	199.7	196.0	192.4	190.6
47.5°	172.4	174.2	177.9	185.1	199.7	216.0	201.5	185.1	176.1	174.2	170.6
50°	154.3	156.1	163.4	170.6	188.8	197.8	188.8	170.6	161.5	156.1	156.1
52°	139.8	145.2	152.5	167.0	179.7	194.2	183.3	163.4	152.5	147.0	143.4
52.5°	137.9	141.6	148.8	165.2	179.7	192.4	181.5	161.5	148.8	145.2	141.6
55°	123.4	128.9	141.6	161.5	177.9	192.4	177.9	159.7	141.6	132.5	128.9
57.5°	118.0	121.6	137.9	163.4	176.1	192.4	177.9	159.7	141.6	125.2	121.6
60°	112.5	119.8	137.9	157.9	174.2	194.2	179.7	157.9	137.9	118.0	118.0
62.5°	107.1	112.5	136.1	154.3	167.0	186.9	172.4	154.3	132.5	112.5	110.7
65°	92.6	101.6	119.8	128.9	143.4	161.5	147.0	134.3	116.2	99.8	98.0
67.5°	70.8	74.4	88.9	99.8	108.9	125.2	118.0	101.6	88.9	76.2	76.2
70°	49.0	52.6	63.5	69.0	78.0	87.1	81.7	69.0	59.9	52.6	50.8
72.5°	34.5	36.3	39.9	43.6	47.2	50.8	49.0	39.9	34.5	32.7	30.9
75°	27.2	30.9	32.7	30.9	29.0	27.2	27.2	23.6	20.0	18.2	18.2
77.5°	27.2	29.0	27.2	23.6	20.0	18.2	16.3	14.5	10.9	9.1	10.9
80°	23.6	23.6	23.6	20.0	18.2	16.3	14.5	12.7	10.9	9.1	9.1
82.5°	25.4	25.4	23.6	20.0	20.0	16.3	16.3	14.5	12.7	9.1	9.1
85°	0.0	0.0	0.0	3.6	9.1	16.3	16.3	14.5	12.7	10.9	10.9
87.5°	0.0	0.0	0.0	0.0	1.8	3.6	7.3	9.1	10.9	10.9	10.9
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2
2.5°	4007.6	4076.5	4207.2	4337.9	4417.8	4512.1	4682.7	4773.5	4891.5	4949.6	5063.9
5°	3228.9	3392.3	3450.4	3599.2	3758.9	3918.6	4172.7	4452.2	4684.6	4844.3	5051.2
7.5°	2355.9	2394.0	2619.1	2718.9	2980.3	3270.7	3617.3	3969.4	4263.5	4524.8	4682.7
10°	1766.0	1905.8	2047.3	2237.9	2448.5	2747.9	3080.1	3468.5	3849.7	4111.0	4310.7
12.5°	1419.3	1530.1	1718.8	1923.9	2183.5	2381.3	2715.3	3100.1	3593.7	3849.7	4112.8
15°	1074.5	1216.1	1430.2	1642.6	1916.7	2125.4	2463.0	2947.6	3582.8	3935.0	4161.8
17.5°	796.8	893.0	1085.4	1323.1	1602.7	1896.7	2352.3	2931.3	3704.5	4123.7	4357.9
20°	609.8	642.5	764.1	976.5	1279.6	1664.4	2172.6	3002.0	4063.8	4582.9	4820.7
22.5°	493.7	508.2	555.4	702.4	996.4	1461.1	2087.3	3051.0	4468.6	5132.9	5450.5
25°	430.2	426.5	457.4	520.9	778.6	1270.5	1978.4	3236.2	4964.1	5779.0	6064.0
27.5°	392.0	392.0	406.6	451.9	646.1	1147.1	1909.4	3368.7	5463.2	6347.1	6501.4
30°	372.1	375.7	417.5	432.0	537.2	1000.1	1795.1	3503.0	5940.6	6710.1	6922.5
32.5°	344.9	330.3	321.3	357.6	451.9	867.6	1680.7	3559.3	6327.2	7154.8	7336.3
35°	265.0	257.7	268.6	295.8	388.4	755.0	1553.7	3622.8	6771.8	7670.3	7706.6
37.5°	239.6	237.8	245.0	268.6	326.7	657.0	1462.9	3606.4	7111.2	8096.8	7998.8
40°	221.4	221.4	226.9	246.8	292.2	588.1	1368.5	3591.9	7439.8	8576.0	8289.2
42.5°	206.9	206.9	216.0	228.7	277.7	542.7	1297.7	3572.0	7715.6	8870.0	8459.8
45°	186.9	192.4	206.9	219.6	281.3	511.8	1245.1	3495.7	7810.0	8866.4	8378.1
47.5°	172.4	179.7	194.2	212.4	254.1	502.8	1208.8	3428.6	7777.4	8648.6	8122.2
50°	156.1	165.2	185.1	216.0	216.0	484.6	1170.7	3488.5	7753.8	8479.8	7877.2
52°	145.2	152.5	177.9	210.5	188.8	446.5	1147.1	3604.6	7850.0	8458.0	7768.3
52.5°	143.4	148.8	172.4	206.9	179.7	439.2	1130.8	3631.9	7880.8	8403.5	7842.7
55°	127.1	134.3	157.9	161.5	147.0	361.2	1078.1	3693.6	7728.4	8296.5	7771.9
57.5°	119.8	123.4	139.8	132.5	127.1	272.3	927.5	3597.4	6864.4	7369.0	7231.0
60°	110.7	114.3	130.7	103.5	107.1	190.6	697.0	3123.6	5512.2	6140.2	6388.9
62.5°	107.1	105.3	123.4	83.5	90.8	137.9	491.9	2539.2	4247.1	5054.8	5485.0
65°	94.4	92.6	88.9	70.8	78.0	107.1	294.0	1657.1	2993.0	3824.2	4060.2
67.5°	72.6	76.2	65.3	56.3	65.3	83.5	163.4	742.3	1570.0	2294.2	2484.8
70°	50.8	54.5	52.6	49.0	58.1	69.0	94.4	254.1	649.8	1205.2	1328.6
72.5°	30.9	38.1	39.9	41.7	50.8	59.9	67.2	81.7	172.4	426.5	530.0
75°	18.2	25.4	30.9	36.3	41.7	50.8	56.3	58.1	59.9	79.9	128.9
77.5°	12.7	18.2	27.2	34.5	41.7	50.8	59.9	63.5	59.9	56.3	59.9
80°	10.9	18.2	25.4	32.7	43.6	52.6	59.9	59.9	58.1	50.8	54.5
82.5°	10.9	18.2	27.2	34.5	41.7	50.8	58.1	59.9	54.5	50.8	52.6
85°	12.7	20.0	29.0	36.3	45.4	41.7	38.1	30.9	29.0	23.6	25.4
87.5°	12.7	18.2	18.2	20.0	21.8	21.8	21.8	20.0	16.3	14.5	14.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2	4639.2
2.5°	5069.3	5214.6	5209.1	5212.7	5191.0	5043.9	4973.2	4793.5	4844.3	4822.5
5°	5263.6	5406.9	5530.4	5515.8	5348.9	5149.2	4853.4	4573.8	4497.6	4385.1
7.5°	5069.3	5414.2	5528.5	5512.2	5265.4	5009.5	4537.5	4258.0	4125.5	4051.1
10°	4760.8	5160.1	5301.7	5330.7	5163.7	4775.3	4341.5	3893.2	3822.4	3693.6
12.5°	4584.7	4875.1	4962.3	5040.3	4982.2	4691.8	4192.7	3762.5	3664.5	3579.2
15°	4441.4	4613.8	4650.1	4739.0	4773.5	4617.4	4270.7	3904.1	3662.7	3653.6
17.5°	4573.8	4503.1	4370.6	4397.8	4506.7	4619.2	4472.2	4183.6	3949.5	3920.4
20°	4793.5	4481.3	4181.8	4249.0	4339.7	4684.6	4777.1	4573.8	4439.5	4365.1
22.5°	5045.8	4519.4	4121.9	4154.6	4327.0	4831.6	5270.8	5158.3	4907.8	4800.7
25°	5512.2	4624.7	4169.1	4190.9	4426.8	5036.7	5717.3	5800.8	5652.0	5630.2
27.5°	5967.8	4896.9	4272.6	4223.5	4477.7	5236.3	5987.7	6436.1	6174.7	6123.9
30°	6200.1	5118.4	4426.8	4343.3	4688.2	5357.9	6151.1	6849.9	6621.2	6597.6
32.5°	6555.8	5319.8	4546.6	4439.5	4806.2	5508.6	6456.0	7301.8	7080.4	6962.4
35°	6704.7	5539.4	4809.8	4684.6	5143.8	5719.1	6612.1	7704.8	7635.8	7521.4
37.5°	6991.5	5775.4	5120.2	5112.9	5552.1	5993.2	6893.4	8252.9	8240.2	8042.4
40°	7015.0	6033.1	5610.2	5838.9	6183.8	6470.5	7140.3	8405.4	8612.3	8478.0
42.5°	7051.3	6485.1	6457.8	6646.6	6942.4	6880.7	7149.4	8441.7	8757.5	8677.6
45°	7067.7	6937.0	7320.0	7668.5	7791.9	7418.0	7064.1	8372.7	8833.7	8634.0
47.5°	6937.0	7325.4	8016.9	8690.3	8726.6	7748.3	7027.8	8301.9	8879.1	8746.6
50°	6955.2	7568.6	8619.5	9222.1	9089.6	8040.5	6971.5	8258.3	8855.5	8766.5
52°	6911.6	7574.1	8704.8	9211.2	9118.7	7879.0	6875.3	8091.4	8833.7	8897.2
52.5°	6960.6	7541.4	8615.9	9218.5	9098.7	7958.9	6862.6	8183.9	8846.4	8717.5
55°	6791.8	7153.0	8095.0	8350.9	8332.8	7223.8	6472.4	7877.2	8514.3	8516.1
57.5°	6138.4	6200.1	6348.9	6343.5	6260.0	5679.2	5535.8	7243.7	7590.4	7401.6
60°	5408.8	4539.4	4138.2	3974.9	3882.3	3787.9	4896.9	6626.6	6659.3	6579.4
62.5°	4673.7	3147.2	2613.6	2568.3	2590.0	2934.9	4733.6	6381.6	6185.6	6013.2
65°	3771.6	2294.2	1898.5	1838.6	2051.0	2423.1	3831.5	4893.3	4592.0	4448.6
67.5°	2368.6	1673.4	1283.2	1170.7	1426.6	1668.0	2517.4	3074.6	2737.0	2539.2
70°	1404.8	934.7	580.8	520.9	586.3	889.4	1410.3	1533.7	1268.7	1167.1
72.5°	553.6	343.0	161.5	137.9	143.4	312.2	519.1	506.4	383.0	341.2
75°	148.8	103.5	56.3	45.4	38.1	58.1	83.5	54.5	20.0	25.4
77.5°	69.0	61.7	49.0	38.1	29.0	21.8	10.9	3.6	3.6	1.8
80°	59.9	52.6	45.4	38.1	29.0	18.2	9.1	1.8	1.8	1.8
82.5°	56.3	49.0	41.7	34.5	27.2	18.2	9.1	1.8	0.0	0.0
85°	23.6	30.9	34.5	32.7	29.0	18.2	9.1	1.8	0.0	0.0
87.5°	12.7	10.9	9.1	7.3	5.4	3.6	3.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)