

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: P454436

Luminaire Tested: **GALN-SA5C-740-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25284 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

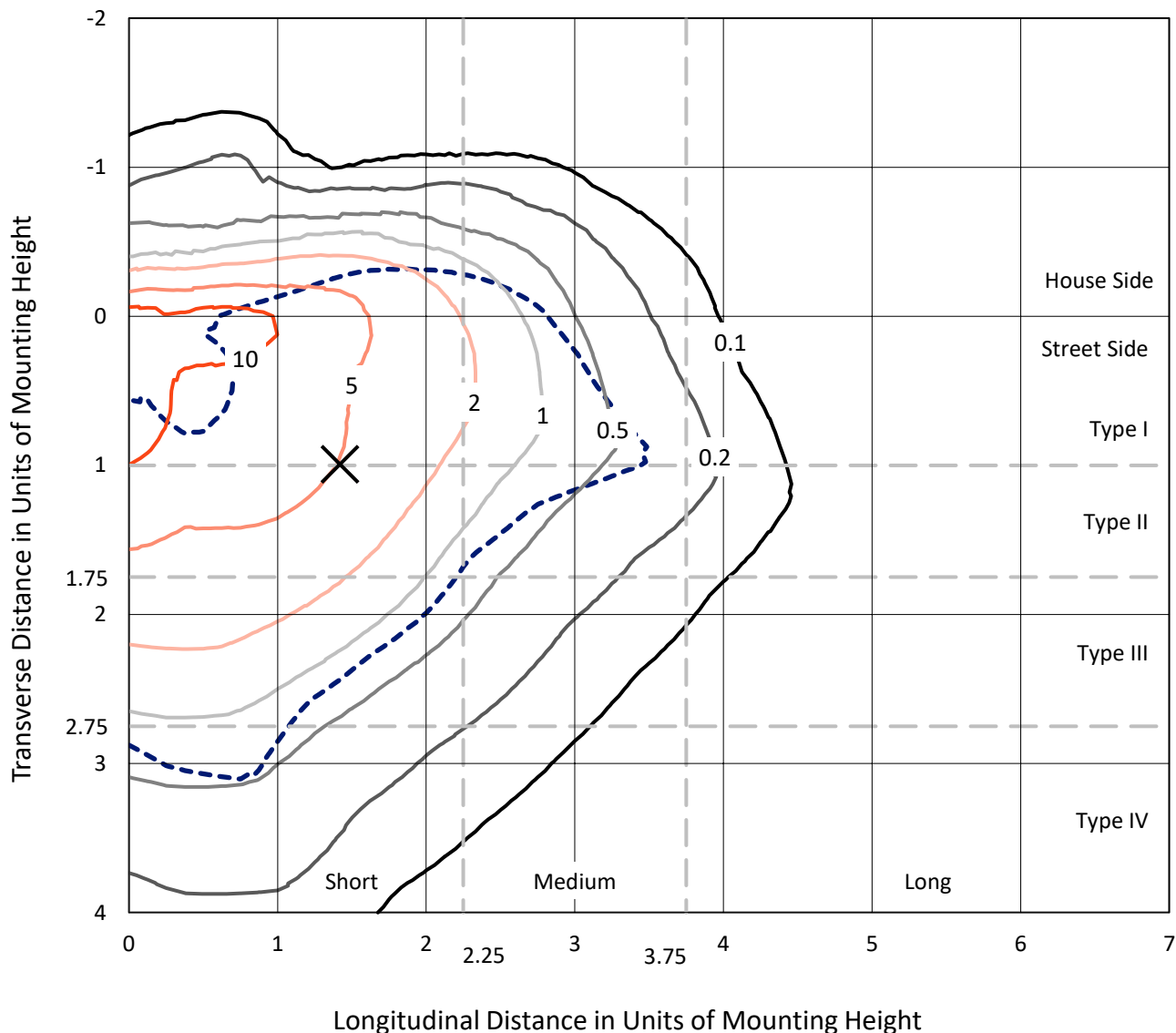
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

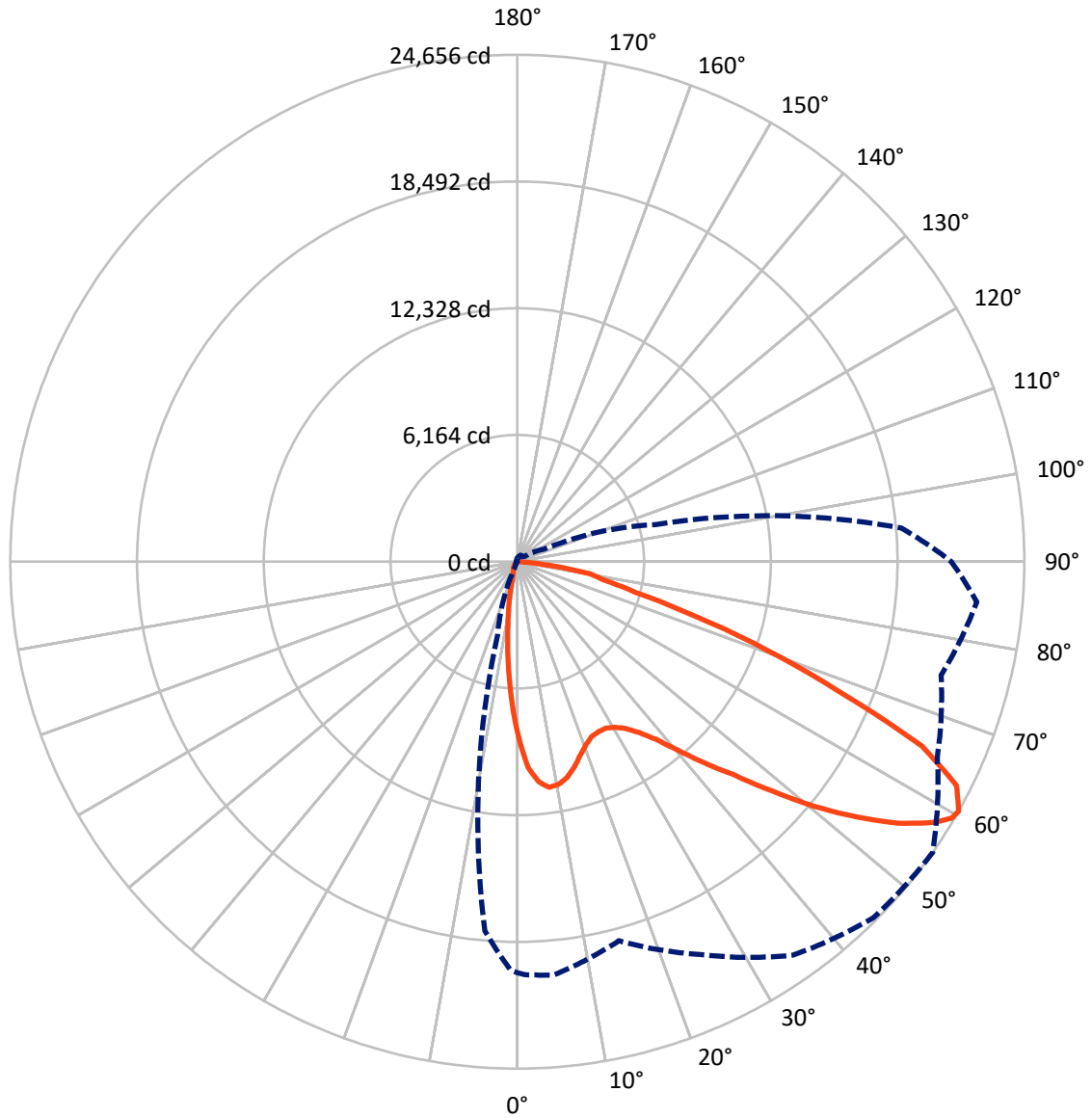
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3752.4	0.0	3752.4
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	21531.6	0.0	21531.6
	% Fixture	85.2	0.0	85.2
Total	Lumens	25284.0	0.0	25284.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.0	2.5
10°-20°	1248.4	4.9
20°-30°	1847.9	7.3
30°-40°	2754.5	10.9
40°-50°	4033.9	16.0
50°-60°	5823.7	23.0
60°-70°	6126.3	24.2
70°-80°	2520.1	10.0
80°-90°	295.2	1.2
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°	25284.0	100.0
0°-180°	25284.0	100.0

Coefficient of Utilization



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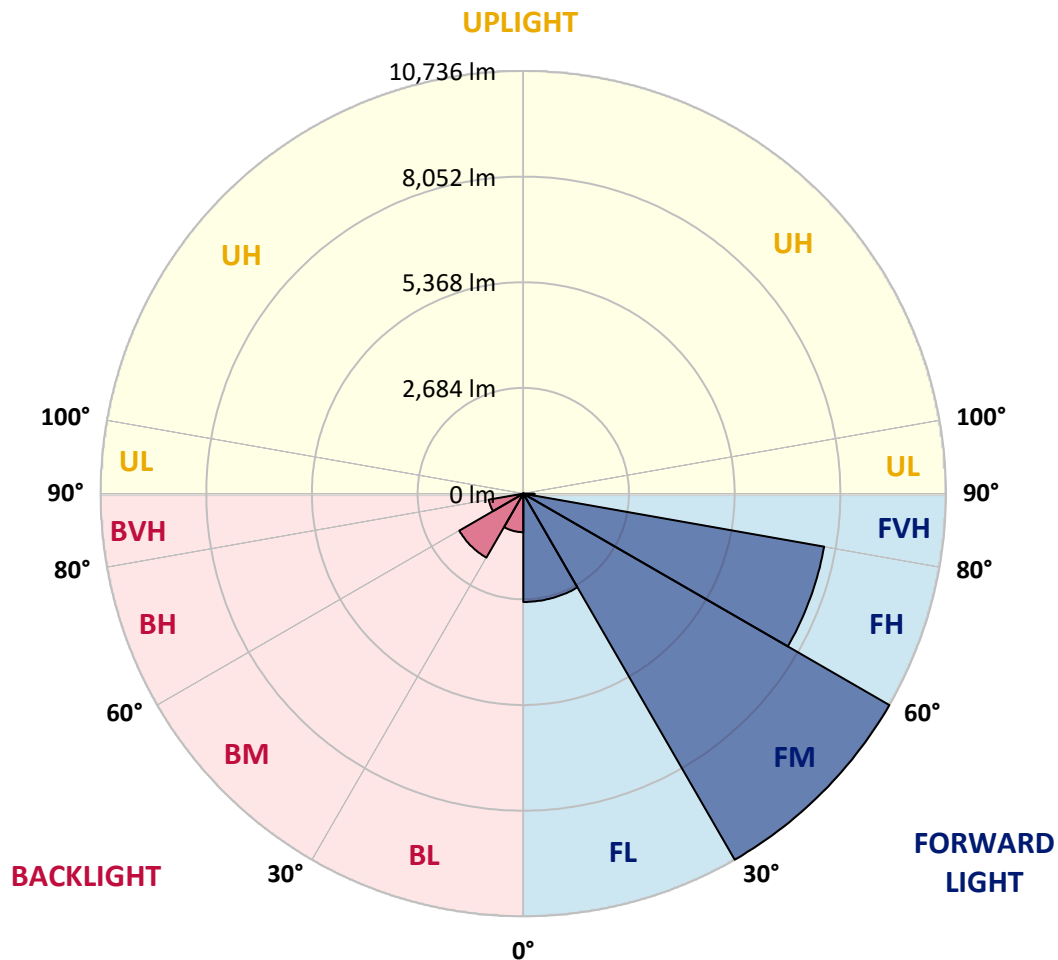
CATALOG NUMBER: GALN-SA5C-740-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2751.3	10.9			
FM (30°-60°)	10735.6	42.5			
FH (60°-80°)	7758.3	30.7			G4/12000
FVH (80°-90°)	286.5	1.1			G3/500
BL (0°-30°)	979.0	3.9	B2/1000		
BM (30°-60°)	1876.5	7.4	B2/2500		
BH (60°-80°)	888.1	3.5	B2/1000		G2/1000
BVH (80°-90°)	8.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1
2.5°	9353.2	9337.6	9475.8	9701.5	9929.2	10047.9	10024.6	10014.9	9826.1	9687.9	9397.9
5°	9333.7	9413.5	9660.7	10271.8	10734.9	10958.7	11024.9	10746.6	10378.8	9845.5	9187.8
7.5°	8775.2	8874.4	9277.3	10232.8	11056.1	11542.6	11525.1	11079.4	10320.4	9495.2	8557.2
10°	8082.3	8199.1	8672.0	9831.9	10900.4	11542.6	11577.6	11013.2	10069.4	9010.7	8024.0
12.5°	7593.9	7732.0	8255.5	9458.3	10499.5	11132.0	11172.8	10764.1	9880.6	8823.8	7734.0
15°	7428.4	7558.8	8090.1	9269.5	10073.2	10413.8	10404.1	10361.3	9806.6	8868.6	7749.5
17.5°	7712.6	7819.6	8419.0	9355.1	9674.3	9639.3	9689.9	9896.1	9822.2	9244.2	8240.0
20°	8446.3	8555.3	9199.4	9617.8	9368.7	9146.9	9170.2	9514.7	9966.2	9950.6	9006.8
22.5°	9456.3	9641.2	10225.0	10127.7	9327.9	8841.3	8792.7	9240.3	10211.4	10764.1	10042.1
25°	10734.9	10921.8	11377.2	10941.2	9528.3	8769.3	8724.6	9156.6	10509.2	11558.2	11207.8
27.5°	11809.2	11951.3	12404.7	11733.3	9824.1	8800.5	8726.5	9168.3	10750.5	12233.5	12190.7
30°	12669.4	12774.5	13041.1	12103.1	10079.1	8936.7	8851.1	9339.6	10857.5	12562.4	12986.6
32.5°	13362.2	13539.3	13623.0	12498.1	10445.0	9193.6	9047.6	9668.4	11118.3	12969.1	13821.5
35°	14154.3	14358.7	14251.6	12875.7	10927.6	9594.5	9415.5	10201.7	11513.4	13344.7	14790.7
37.5°	15158.5	15394.0	14975.6	13272.7	11437.5	10197.8	10114.1	10951.0	12112.8	13881.9	15829.9
40°	16197.8	16334.0	15678.1	13755.4	12064.2	11075.5	11155.3	12064.2	12897.1	14526.0	16935.4
42.5°	17009.3	17137.8	16400.2	14160.2	12704.4	12116.7	12449.5	13407.0	13796.2	15185.8	17760.5
45°	17630.1	17739.1	16900.3	14601.9	13568.5	13625.0	14253.6	14790.7	14697.3	15588.6	18396.9
47.5°	18112.8	18206.2	17285.7	15076.8	14862.7	15469.9	16431.3	16659.0	15631.4	16024.6	18973.0
50°	18311.3	18338.5	17406.3	15682.0	16332.0	17820.9	18823.1	18684.9	16701.8	16509.1	19586.0
52.5°	18570.1	18564.3	17750.8	16258.1	17713.8	19922.7	20923.0	20609.7	17912.3	17235.1	20274.9
55°	19249.3	19257.1	18488.4	17075.5	18891.2	21619.7	22690.1	22462.4	19189.0	18461.1	21078.7
57.5°	20074.5	20103.7	19537.4	18031.0	20016.1	22849.7	24009.6	23922.0	20915.2	19825.4	21837.7
59°	20181.5	20239.9	20033.6	18704.4	20683.6	23227.2	24461.1	24546.7	21839.6	20724.5	22248.3
60°	19986.9	20084.2	20177.6	19085.8	21074.8	23363.5	24488.3	24655.7	22534.4	21335.6	22435.2
62.5°	19138.4	19292.1	19761.2	20259.4	21563.3	22939.2	23618.4	23968.7	23394.6	22941.2	22452.7
65°	18027.1	18106.9	18784.2	20467.6	20615.5	20958.0	21168.2	21617.8	22361.2	23560.0	21648.9
67.5°	16205.6	16441.0	17270.1	19259.1	17818.9	17414.1	17361.6	16913.9	18844.5	22084.9	19667.7
70°	13387.5	13492.6	14514.4	15789.1	13447.9	12825.1	13074.2	12906.8	14607.8	19011.9	15829.9
72.5°	10123.8	10361.3	11359.6	12585.7	9150.8	8343.1	9030.1	8967.8	10972.4	15279.2	10875.1
75°	7202.7	7356.4	8629.2	9849.4	6408.7	5429.7	5676.9	5908.5	7660.0	12064.2	6426.2
77.5°	4949.0	5081.4	6036.9	6513.7	4674.6	4478.1	4096.6	4320.4	5019.1	7157.9	3497.2
80°	2985.4	2979.5	3608.2	3724.9	3255.9	3781.4	3172.2	3561.4	3034.0	3063.2	1354.5
82.5°	1938.4	1918.9	2206.9	2405.4	1811.9	1905.3	1278.6	1843.0	1977.3	854.4	428.2
85°	868.0	905.0	1060.6	1399.3	794.0	422.3	260.8	566.3	842.7	430.1	0.0
87.5°	89.5	70.1	186.8	340.6	109.0	11.7	38.9	19.5	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°	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1
2.5°	9263.7	9150.8	8814.1	8498.8	8228.3	7897.5	7683.4	7346.7	7142.4	7080.1	7089.8
5°	8891.9	8566.9	7926.6	7414.8	6844.6	6519.6	6025.3	5550.4	5293.5	5198.2	5155.3
7.5°	8113.5	7765.1	6992.5	6188.7	5577.7	5007.4	4639.6	4221.2	3935.1	3699.6	3658.8
10°	7535.5	7078.1	6120.6	5256.5	4773.9	4345.7	3977.9	3559.5	3222.8	2954.2	2880.3
12.5°	7189.1	6677.2	5608.8	4884.8	4427.5	3987.7	3508.9	3024.3	2679.8	2389.9	2255.6
15°	7126.8	6533.2	5464.8	4618.2	4053.8	3522.5	2886.1	2362.6	2008.4	1734.0	1650.3
17.5°	7502.4	6792.0	5443.4	4339.9	3565.3	2812.2	2150.5	1716.5	1317.5	1163.8	1103.5
20°	8171.9	7249.4	5441.4	4016.8	3063.2	2166.1	1510.2	1119.0	957.5	883.5	848.5
22.5°	9084.6	7872.2	5544.6	3738.5	2541.7	1597.8	1078.2	891.3	797.9	737.6	724.0
25°	10199.7	8794.6	5797.6	3549.8	2142.7	1253.3	889.4	762.9	685.0	657.8	646.1
27.5°	11190.3	9678.2	6075.9	3355.2	1856.6	1109.3	825.2	698.7	636.4	615.0	597.5
30°	12044.7	10480.0	6210.1	3098.3	1627.0	1015.9	836.8	747.3	665.6	601.4	572.2
32.5°	12757.0	11095.0	6297.7	2864.7	1432.4	831.0	661.7	578.0	541.0	517.7	498.2
35°	13648.3	11760.6	6245.2	2732.4	1333.1	757.1	603.3	498.2	435.9	389.2	369.8
37.5°	14582.5	12426.1	6153.7	2623.4	1288.3	702.6	574.1	472.9	404.8	356.1	330.8
40°	15549.7	13043.1	6046.7	2522.2	1247.5	667.5	556.6	451.5	383.4	330.8	303.6
42.5°	16435.2	13644.4	6003.9	2456.0	1181.3	673.4	543.0	441.8	362.0	307.5	284.1
45°	17151.4	14214.6	6062.2	2421.0	1109.3	663.6	546.9	430.1	344.5	291.9	268.6
47.5°	17916.2	15020.3	6251.0	2386.0	1039.2	616.9	576.1	428.2	336.7	282.2	256.9
50°	18805.6	16051.8	6683.1	2300.3	953.6	566.3	613.0	426.2	327.0	270.5	245.2
52.5°	19990.8	17223.4	7128.7	2150.5	829.1	517.7	585.8	420.4	307.5	256.9	231.6
55°	21055.3	18457.2	7506.3	1973.4	671.4	447.6	527.4	395.1	274.4	233.5	210.2
57.5°	21495.2	19154.0	7494.6	1728.2	537.1	393.1	434.0	362.0	239.4	206.3	186.8
59°	21333.6	19066.4	7243.6	1547.2	490.4	363.9	360.0	358.1	223.8	186.8	171.3
60°	21105.9	18747.2	6973.0	1457.7	461.2	344.5	330.8	354.2	210.2	175.2	159.6
62.5°	20234.1	17423.8	6075.9	1305.9	422.3	291.9	264.7	299.7	186.8	151.8	138.2
65°	18971.0	15390.1	5143.7	1263.0	410.6	241.3	219.9	214.1	159.6	128.4	116.8
67.5°	16507.2	13023.6	4166.7	1233.9	414.5	202.4	192.7	161.5	132.3	107.0	99.3
70°	13216.3	10155.0	3411.6	1200.8	418.4	165.4	161.5	128.4	107.0	89.5	81.7
72.5°	8029.8	6019.4	2685.7	1043.1	406.7	132.3	144.0	97.3	77.8	64.2	60.3
75°	4964.6	4120.0	1665.9	811.5	268.6	97.3	101.2	60.3	52.5	40.9	40.9
77.5°	2876.4	2602.0	595.5	291.9	118.7	58.4	44.8	31.1	29.2	17.5	17.5
80°	1193.0	955.6	206.3	99.3	64.2	27.2	9.7	1.9	0.0	0.0	0.0
82.5°	348.4	309.4	56.4	44.8	19.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1
2.5°	6924.4	6860.2	6831.0	6930.2	6838.8	6955.5	6866.0	6904.9	7019.7	7070.3	7200.7
5°	5182.6	5116.4	5085.3	5235.1	5227.3	5301.3	5293.5	5361.6	5420.0	5289.6	5423.9
7.5°	3610.1	3565.3	3639.3	3756.1	3880.6	3839.7	3839.7	3748.3	3779.4	3760.0	3754.1
10°	2746.0	2592.3	2553.3	2549.5	2596.2	2605.9	2553.3	2426.8	2473.6	2487.2	2568.9
12.5°	2160.2	2041.5	1860.5	1778.8	1757.4	1774.9	1601.7	1490.7	1543.3	1512.2	1591.9
15°	1549.1	1451.8	1344.8	1253.3	1228.0	1193.0	1004.2	871.9	856.3	862.1	875.8
17.5°	1105.4	1039.2	1039.2	941.9	889.4	784.3	688.9	630.6	624.7	630.6	640.3
20°	815.4	780.4	776.5	751.2	692.8	622.8	556.6	544.9	541.0	550.8	554.7
22.5°	702.6	665.6	634.4	632.5	578.0	519.6	488.5	472.9	474.9	478.8	488.5
25°	628.6	589.7	556.6	537.1	498.2	457.3	428.2	420.4	420.4	426.2	428.2
27.5°	576.1	527.4	498.2	471.0	435.9	400.9	375.6	369.8	365.9	369.8	379.5
30°	539.1	490.4	453.5	412.6	385.3	352.3	330.8	323.1	321.1	323.1	330.8
32.5°	461.2	432.0	402.9	365.9	332.8	311.4	288.0	274.4	274.4	278.3	286.1
35°	348.4	332.8	330.8	321.1	293.9	270.5	243.3	229.6	229.6	237.4	241.3
37.5°	307.5	278.3	274.4	270.5	258.8	227.7	202.4	190.7	188.8	194.6	202.4
40°	280.2	247.2	229.6	225.8	227.7	192.7	165.4	153.7	153.7	155.7	163.5
42.5°	258.8	219.9	188.8	184.9	192.7	161.5	134.3	122.6	122.6	122.6	132.3
45°	241.3	196.6	159.6	140.1	151.8	132.3	109.0	97.3	93.4	97.3	101.2
47.5°	229.6	179.0	140.1	112.9	112.9	105.1	87.6	74.0	70.1	72.0	77.8
50°	219.9	163.5	118.7	91.5	81.7	83.7	66.2	56.4	52.5	52.5	58.4
52.5°	204.3	147.9	103.1	77.8	62.3	56.4	48.7	40.9	38.9	40.9	44.8
55°	184.9	134.3	89.5	64.2	48.7	38.9	35.0	29.2	27.2	29.2	35.0
57.5°	163.5	112.9	72.0	50.6	33.1	25.3	23.4	19.5	15.6	17.5	21.4
59°	149.9	101.2	62.3	40.9	25.3	17.5	17.5	13.6	9.7	11.7	17.5
60°	144.0	93.4	52.5	35.0	21.4	13.6	13.6	9.7	5.8	7.8	13.6
62.5°	122.6	77.8	40.9	21.4	9.7	1.9	5.8	1.9	0.0	1.9	5.8
65°	103.1	62.3	27.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0	1.9
67.5°	85.6	46.7	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	68.1	31.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	46.7	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	29.2	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1	8561.1
2.5°	7208.5	7486.8	7658.1	7981.1	8312.0	8566.9	8886.1	9172.2	9290.9	9353.2
5°	5560.1	5947.4	6276.3	6768.7	7226.0	7782.6	8347.0	9012.6	9267.5	9333.7
7.5°	3902.0	4297.1	4641.6	5211.8	5863.7	6609.1	7453.7	8298.4	8670.1	8775.2
10°	2818.0	3240.3	3660.7	4230.9	4840.1	5647.7	6527.4	7572.5	8000.6	8082.3
12.5°	1778.8	2232.2	2915.3	3619.8	4264.0	4914.0	5834.5	6971.1	7444.0	7593.9
15°	1031.5	1370.1	1885.8	2804.4	3623.7	4483.9	5488.1	6745.3	7274.7	7428.4
17.5°	690.9	807.7	1161.8	1864.4	2946.5	4086.9	5400.6	6930.2	7516.0	7712.6
20°	581.9	634.4	759.0	1136.5	2269.2	3732.7	5423.9	7432.3	8201.1	8446.3
22.5°	511.8	560.5	640.3	817.4	1584.2	3292.9	5534.8	8150.5	9143.0	9456.3
25°	451.5	500.2	570.2	677.3	1064.5	2784.9	5778.1	9201.4	10390.5	10734.9
27.5°	400.9	445.7	506.0	597.5	819.3	2218.6	5994.1	10225.0	11529.0	11809.2
30°	354.2	391.2	449.6	519.6	681.2	1710.7	6103.1	11120.3	12358.0	12669.4
32.5°	307.5	342.5	399.0	455.4	560.5	1303.9	6027.2	11778.1	13163.7	13362.2
35°	262.7	299.7	346.4	399.0	484.6	1052.9	5647.7	12517.6	13998.6	14154.3
37.5°	225.8	256.9	305.5	346.4	437.9	842.7	5188.4	13183.2	14934.7	15158.5
40°	190.7	221.9	270.5	307.5	402.9	663.6	4773.9	13922.7	15921.4	16197.8
42.5°	155.7	192.7	235.5	295.8	346.4	506.0	4271.8	14522.1	16662.9	17009.3
45°	124.6	165.4	212.1	293.9	301.7	385.3	3787.2	14989.2	17318.7	17630.1
47.5°	99.3	140.1	204.3	274.4	247.2	305.5	3510.8	15477.7	17863.7	18112.8
50°	79.8	116.8	214.1	241.3	206.3	258.8	3503.1	16022.6	18145.9	18311.3
52.5°	64.2	95.4	181.0	184.9	175.2	227.7	3713.2	16635.6	18433.9	18570.1
55°	54.5	79.8	118.7	136.2	157.6	206.3	3870.9	17579.5	19120.9	19249.3
57.5°	42.8	68.1	91.5	109.0	140.1	188.8	3892.3	18307.4	19990.8	20074.5
59°	37.0	58.4	81.7	97.3	128.4	177.1	3804.7	18352.1	20047.2	20181.5
60°	31.1	52.5	72.0	91.5	118.7	167.4	3709.4	18027.1	19837.1	19986.9
62.5°	23.4	40.9	52.5	74.0	97.3	144.0	3257.8	16892.5	19033.3	19138.4
65°	15.6	29.2	38.9	54.5	75.9	124.6	2654.5	15421.3	17791.7	18027.1
67.5°	9.7	21.4	31.1	40.9	62.3	105.1	1891.7	13224.1	16053.8	16205.6
70°	5.8	13.6	23.4	33.1	48.7	83.7	1122.9	10452.7	13356.4	13387.5
72.5°	3.9	9.7	15.6	23.4	38.9	75.9	544.9	6813.5	9752.1	10123.8
75°	1.9	5.8	9.7	17.5	31.1	62.3	260.8	4552.0	7095.6	7202.7
77.5°	0.0	1.9	5.8	11.7	23.4	48.7	151.8	2989.3	4838.1	4949.0
80°	0.0	0.0	3.9	9.7	17.5	31.1	91.5	1763.2	2930.9	2985.4
82.5°	0.0	0.0	1.9	7.8	11.7	23.4	46.7	774.6	1918.9	1938.4
85°	0.0	0.0	1.9	7.8	9.7	15.6	17.5	105.1	852.4	868.0
87.5°	0.0	0.0	1.9	9.7	9.7	9.7	9.7	5.8	72.0	89.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)