

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: P455828

Luminaire Tested: **GALN-SA7A-740-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455828  
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-SA7A-740-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA 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: 22875 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

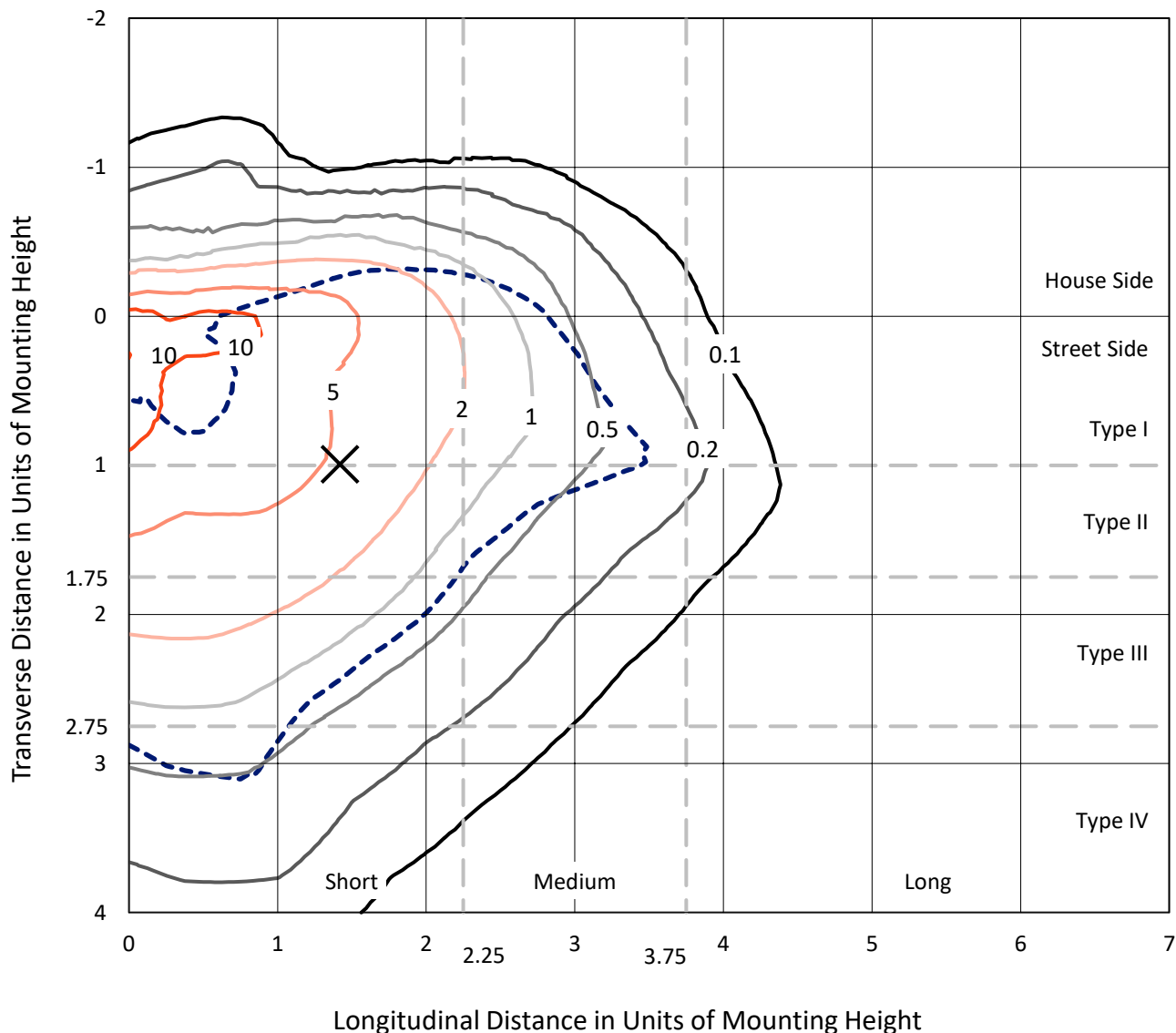
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

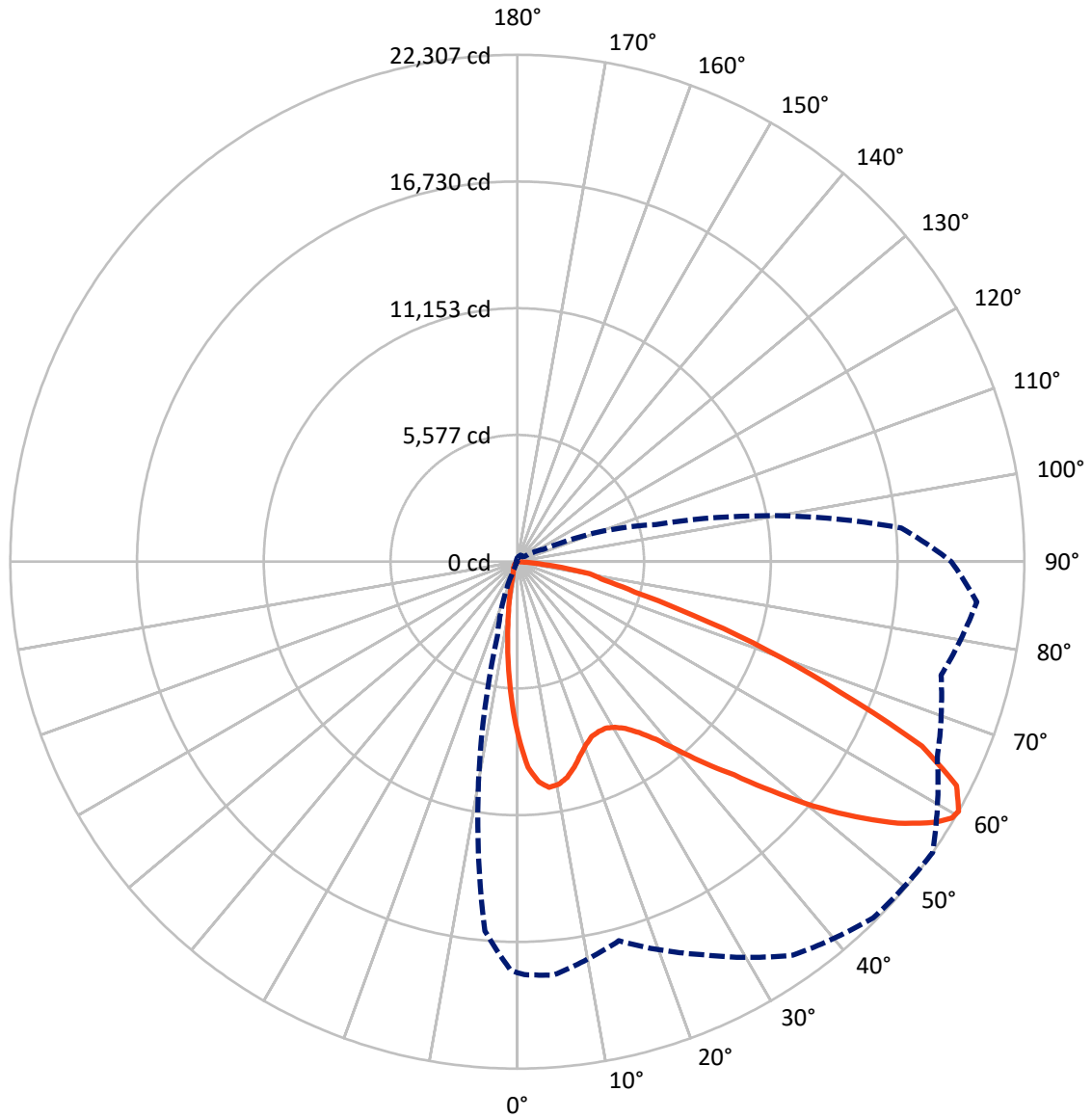
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 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
<b>House Side</b>	Lumens	3394.8	0.0	3394.8
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	19480.2	0.0	19480.2
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	22875.0	0.0	22875.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	573.6	2.5
10°-20°	1129.5	4.9
20°-30°	1671.8	7.3
30°-40°	2492.0	10.9
40°-50°	3649.6	16.0
50°-60°	5268.9	23.0
60°-70°	5542.6	24.2
70°-80°	2280.0	10.0
80°-90°	267.0	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°	22875.0	100.0
0°-180°	22875.0	100.0

**Coefficient of Utilization**



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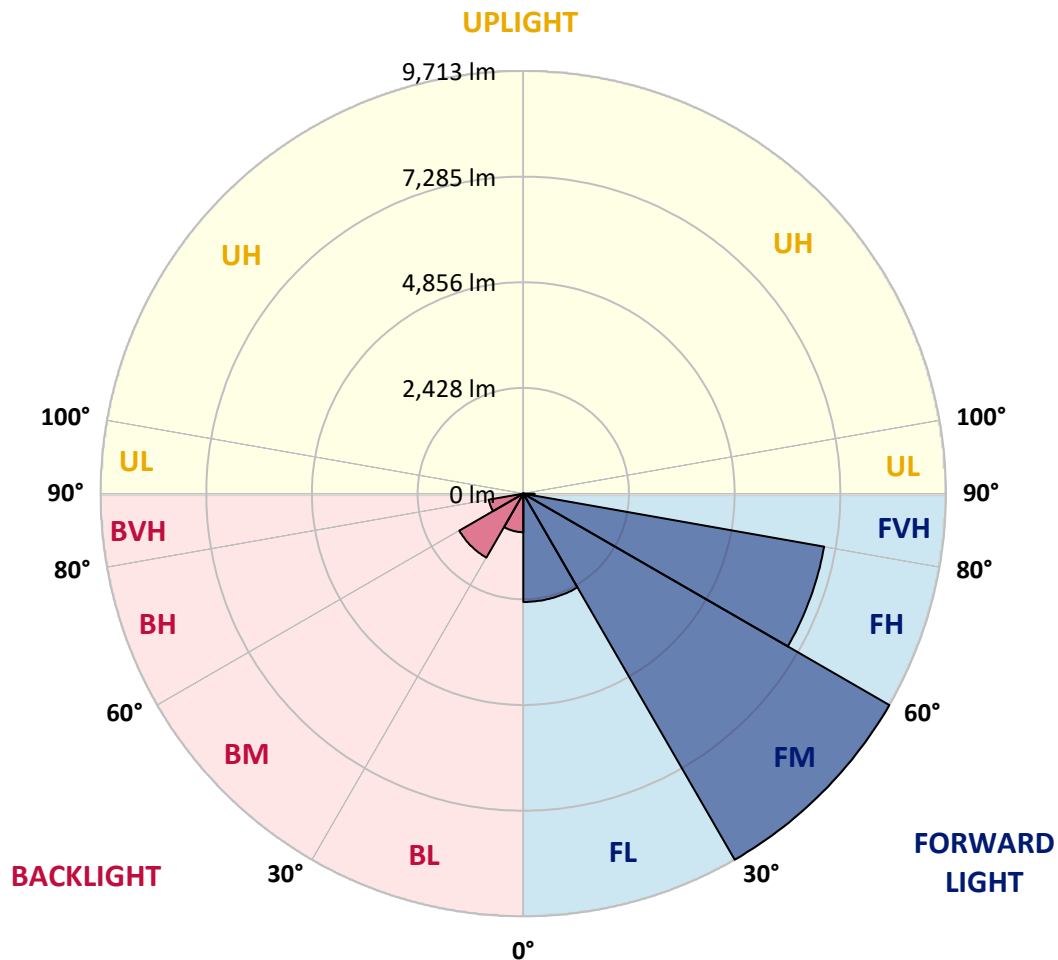
CATALOG NUMBER: GALN-SA7A-740-U-SLL-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2489.1	10.9			
FM	(30°-60°)	9712.8	42.5			
FH	(60°-80°)	7019.1	30.7			G3/7500
FVH	(80°-90°)	259.2	1.1			G3/500
BL	(0°-30°)	885.7	3.9	B2/1000		
BM	(30°-60°)	1697.7	7.4	B2/2500		
BH	(60°-80°)	803.5	3.5	B2/1000		G2/1000
BVH	(80°-90°)	7.9	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4
2.5°	8462.0	8447.9	8573.0	8777.2	8983.2	9090.6	9069.5	9060.7	8889.9	8764.9	8502.5
5°	8444.4	8516.6	8740.2	9293.1	9712.1	9914.6	9974.5	9722.7	9389.9	8907.5	8312.4
7.5°	7939.1	8028.9	8393.4	9257.9	10002.7	10442.8	10427.0	10023.8	9337.1	8590.6	7741.9
10°	7312.3	7417.9	7845.8	8895.2	9861.8	10442.8	10474.5	9963.9	9110.0	8152.1	7259.5
12.5°	6870.3	6995.3	7469.0	8557.1	9499.1	10071.3	10108.3	9738.5	8939.2	7983.1	6997.1
15°	6720.7	6838.6	7319.3	8386.3	9113.5	9421.6	9412.8	9374.1	8872.3	8023.6	7011.2
17.5°	6977.7	7074.6	7616.9	8463.8	8752.5	8720.9	8766.6	8953.3	8886.4	8363.4	7454.9
20°	7641.5	7740.1	8322.9	8701.5	8476.1	8275.4	8296.5	8608.2	9016.7	9002.6	8148.6
22.5°	8555.3	8722.6	9250.8	9162.8	8439.1	7999.0	7954.9	8359.9	9238.5	9738.5	9085.3
25°	9712.1	9881.2	10293.2	9898.8	8620.5	7933.8	7893.3	8284.2	9507.9	10456.9	10140.0
27.5°	10684.1	10812.6	11222.8	10615.4	8888.1	7962.0	7895.1	8294.8	9726.2	11067.9	11029.2
30°	11462.3	11557.4	11798.6	10949.9	9118.8	8085.2	8007.8	8449.7	9823.1	11365.5	11749.3
32.5°	12089.1	12249.3	12325.0	11307.4	9449.8	8317.6	8185.6	8747.3	10059.0	11733.4	12504.6
35°	12805.7	12990.6	12893.8	11648.9	9886.4	8680.4	8518.4	9229.7	10416.4	12073.3	13381.5
37.5°	13714.3	13927.3	13548.7	12008.1	10347.8	9226.2	9150.5	9907.6	10958.7	12559.2	14321.7
40°	14654.5	14777.7	14184.4	12444.8	10914.7	10020.3	10092.5	10914.7	11668.3	13142.0	15321.8
42.5°	15388.7	15504.9	14837.6	12811.0	11494.0	10962.2	11263.3	12129.6	12481.8	13738.9	16068.3
45°	15950.4	16049.0	15290.1	13210.7	12275.7	12326.8	12895.5	13381.5	13297.0	14103.4	16644.1
47.5°	16387.0	16471.5	15638.7	13640.3	13446.6	13996.0	14865.8	15071.8	14142.1	14497.8	17165.3
50°	16566.6	16591.3	15747.9	14187.9	14776.0	16122.9	17029.7	16904.7	15110.5	14936.2	17719.9
52.5°	16800.8	16795.5	16059.5	14709.1	16026.1	18024.5	18929.5	18646.0	16205.7	15592.9	18343.2
55°	17415.3	17422.3	16726.8	15448.6	17091.3	19559.8	20528.2	20322.2	17360.7	16702.2	19070.4
57.5°	18161.8	18188.2	17675.9	16313.1	18109.0	20672.6	21722.0	21642.8	18922.5	17936.5	19757.1
59°	18258.7	18311.5	18124.9	16922.3	18712.9	21014.2	22130.5	22208.0	19758.8	18749.9	20128.6
60°	18082.6	18170.6	18255.2	17267.4	19066.8	21137.5	22155.2	22306.6	20387.4	19302.8	20297.6
62.5°	17314.9	17454.0	17878.4	18329.1	19508.8	20753.6	21368.1	21685.0	21165.6	20755.4	20313.4
65°	16309.6	16381.7	16994.5	18517.5	18651.3	18961.2	19151.4	19558.1	20230.7	21315.3	19586.3
67.5°	14661.5	14874.6	15624.6	17424.1	16121.2	15754.9	15707.4	15302.4	17049.1	19980.7	17793.8
70°	12112.0	12207.1	13131.5	14284.7	12166.6	11603.2	11828.5	11677.1	13216.0	17200.5	14321.7
72.5°	9159.3	9374.1	10277.3	11386.6	8278.9	7548.2	8169.7	8113.4	9926.9	13823.4	9838.9
75°	6516.4	6655.5	7807.0	8911.0	5798.1	4912.4	5136.0	5345.5	6930.2	10914.7	5813.9
77.5°	4477.5	4597.2	5461.8	5893.1	4229.3	4051.4	3706.3	3908.8	4540.9	6475.9	3164.0
80°	2700.9	2695.7	3264.4	3370.0	2945.7	3421.1	2870.0	3222.1	2745.0	2771.4	1225.5
82.5°	1753.7	1736.1	1996.7	2176.3	1639.2	1723.7	1156.8	1667.4	1788.9	773.0	387.4
85°	785.3	818.7	959.6	1266.0	718.4	382.1	235.9	512.4	762.4	389.1	0.0
87.5°	81.0	63.4	169.0	308.1	98.6	10.6	35.2	17.6	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	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4
2.5°	8381.0	8278.9	7974.3	7689.1	7444.3	7145.0	6951.3	6646.7	6461.8	6405.5	6414.3
5°	8044.7	7750.7	7171.4	6708.3	6192.5	5898.4	5451.2	5021.6	4789.2	4702.9	4664.1
7.5°	7340.4	7025.3	6326.3	5599.1	5046.2	4530.3	4197.6	3819.0	3560.2	3347.1	3310.2
10°	6817.5	6403.7	5537.5	4755.7	4319.0	3931.7	3598.9	3220.4	2915.8	2672.8	2605.9
12.5°	6504.1	6041.0	5074.4	4419.4	4005.6	3607.7	3174.6	2736.2	2424.5	2162.2	2040.7
15°	6447.8	5910.7	4944.1	4178.2	3667.6	3186.9	2611.1	2137.5	1817.1	1568.8	1493.1
17.5°	6787.6	6144.9	4924.7	3926.4	3225.6	2544.2	1945.6	1553.0	1192.0	1052.9	998.3
20°	7393.3	6558.7	4923.0	3634.1	2771.4	1959.7	1366.3	1012.4	866.3	799.4	767.7
22.5°	8219.0	7122.1	5016.3	3382.3	2299.5	1445.6	975.4	806.4	721.9	667.3	655.0
25°	9227.9	7956.7	5245.2	3211.6	1938.6	1133.9	804.6	690.2	619.8	595.1	584.6
27.5°	10124.1	8756.1	5497.0	3035.5	1679.7	1003.6	746.5	632.1	575.8	556.4	540.5
30°	10897.1	9481.5	5618.5	2803.1	1472.0	919.1	757.1	676.1	602.2	544.1	517.7
32.5°	11541.5	10037.9	5697.7	2591.8	1295.9	751.8	598.6	522.9	489.5	468.4	450.7
35°	12347.9	10640.0	5650.2	2472.1	1206.1	684.9	545.8	450.7	394.4	352.1	334.5
37.5°	13193.1	11242.2	5567.4	2373.5	1165.6	635.6	519.4	427.9	366.2	322.2	299.3
40°	14068.2	11800.4	5470.6	2281.9	1128.6	603.9	503.6	408.5	346.9	299.3	274.7
42.5°	14869.3	12344.4	5431.8	2222.0	1068.8	609.2	491.2	399.7	327.5	278.2	257.1
45°	15517.2	12860.3	5484.6	2190.3	1003.6	600.4	494.8	389.1	311.6	264.1	243.0
47.5°	16209.2	13589.2	5655.4	2158.6	940.2	558.1	521.2	387.4	304.6	255.3	232.4
50°	17013.8	14522.4	6046.3	2081.2	862.8	512.4	554.6	385.6	295.8	244.7	221.9
52.5°	18086.1	15582.4	6449.5	1945.6	750.1	468.4	530.0	380.3	278.2	232.4	209.5
55°	19049.2	16698.7	6791.1	1785.4	607.4	405.0	477.2	357.4	248.3	211.3	190.2
57.5°	19447.2	17329.0	6780.5	1563.5	486.0	355.7	392.6	327.5	216.6	186.6	169.0
59°	19301.0	17249.8	6553.4	1399.8	443.7	329.3	325.7	324.0	202.5	169.0	154.9
60°	19095.0	16961.0	6308.7	1318.8	417.3	311.6	299.3	320.5	190.2	158.5	144.4
62.5°	18306.2	15763.7	5497.0	1181.4	382.1	264.1	239.5	271.2	169.0	137.3	125.0
65°	17163.5	13923.8	4653.6	1142.7	371.5	218.3	199.0	193.7	144.4	116.2	105.6
67.5°	14934.4	11782.7	3769.7	1116.3	375.0	183.1	174.3	146.1	119.7	96.8	89.8
70°	11957.1	9187.4	3086.5	1086.4	378.6	149.7	146.1	116.2	96.8	81.0	74.0
72.5°	7264.7	5445.9	2429.8	943.7	368.0	119.7	130.3	88.0	70.4	58.1	54.6
75°	4491.6	3727.4	1507.2	734.2	243.0	88.0	91.6	54.6	47.5	37.0	37.0
77.5°	2602.3	2354.1	538.8	264.1	107.4	52.8	40.5	28.2	26.4	15.8	15.8
80°	1079.3	864.5	186.6	89.8	58.1	24.7	8.8	1.8	0.0	0.0	0.0
82.5°	315.2	280.0	51.1	40.5	17.6	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°	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4
2.5°	6264.6	6206.5	6180.1	6269.9	6187.2	6292.8	6211.8	6247.0	6350.9	6396.7	6514.7
5°	4688.8	4628.9	4600.8	4736.3	4729.3	4796.2	4789.2	4850.8	4903.6	4785.6	4907.1
7.5°	3266.1	3225.6	3292.5	3398.2	3510.9	3473.9	3473.9	3391.1	3419.3	3401.7	3396.4
10°	2484.4	2345.3	2310.1	2306.5	2348.8	2357.6	2310.1	2195.6	2237.9	2250.2	2324.2
12.5°	1954.4	1847.0	1683.2	1609.3	1589.9	1605.8	1449.1	1348.7	1396.3	1368.1	1440.3
15°	1401.5	1313.5	1216.7	1133.9	1111.0	1079.3	908.5	788.8	774.7	780.0	792.3
17.5°	1000.1	940.2	940.2	852.2	804.6	709.6	623.3	570.5	565.2	570.5	579.3
20°	737.7	706.0	702.5	679.6	626.8	563.4	503.6	493.0	489.5	498.3	501.8
22.5°	635.6	602.2	574.0	572.2	522.9	470.1	441.9	427.9	429.6	433.1	441.9
25°	568.7	533.5	503.6	486.0	450.7	413.8	387.4	380.3	380.3	385.6	387.4
27.5°	521.2	477.2	450.7	426.1	394.4	362.7	339.8	334.5	331.0	334.5	343.3
30°	487.7	443.7	410.2	373.3	348.6	318.7	299.3	292.3	290.5	292.3	299.3
32.5°	417.3	390.9	364.5	331.0	301.1	281.7	260.6	248.3	248.3	251.8	258.8
35°	315.2	301.1	299.3	290.5	265.9	244.7	220.1	207.8	207.8	214.8	218.3
37.5°	278.2	251.8	248.3	244.7	234.2	206.0	183.1	172.6	170.8	176.1	183.1
40°	253.5	223.6	207.8	204.2	206.0	174.3	149.7	139.1	139.1	140.9	147.9
42.5°	234.2	199.0	170.8	167.3	174.3	146.1	121.5	110.9	110.9	110.9	119.7
45°	218.3	177.8	144.4	126.8	137.3	119.7	98.6	88.0	84.5	88.0	91.6
47.5°	207.8	162.0	126.8	102.1	102.1	95.1	79.2	66.9	63.4	65.1	70.4
50°	199.0	147.9	107.4	82.8	74.0	75.7	59.9	51.1	47.5	47.5	52.8
52.5°	184.9	133.8	93.3	70.4	56.3	51.1	44.0	37.0	35.2	37.0	40.5
55°	167.3	121.5	81.0	58.1	44.0	35.2	31.7	26.4	24.7	26.4	31.7
57.5°	147.9	102.1	65.1	45.8	29.9	22.9	21.1	17.6	14.1	15.8	19.4
59°	135.6	91.6	56.3	37.0	22.9	15.8	15.8	12.3	8.8	10.6	15.8
60°	130.3	84.5	47.5	31.7	19.4	12.3	12.3	8.8	5.3	7.0	12.3
62.5°	110.9	70.4	37.0	19.4	8.8	1.8	5.3	1.8	0.0	1.8	5.3
65°	93.3	56.3	24.7	8.8	0.0	0.0	0.0	0.0	0.0	0.0	1.8
67.5°	77.5	42.3	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	61.6	28.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	42.3	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	26.4	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.6	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°	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4
2.5°	6521.7	6773.5	6928.4	7220.7	7520.0	7750.7	8039.5	8298.3	8405.7	8462.0
5°	5030.4	5380.8	5678.3	6123.8	6537.6	7041.1	7551.7	8153.9	8384.6	8444.4
7.5°	3530.2	3887.7	4199.3	4715.2	5305.1	5979.4	6743.6	7507.7	7844.0	7939.1
10°	2549.5	2931.6	3311.9	3827.8	4378.9	5109.6	5905.5	6851.0	7238.3	7312.3
12.5°	1609.3	2019.5	2637.6	3274.9	3857.7	4445.8	5278.6	6306.9	6734.8	6870.3
15°	933.2	1239.5	1706.1	2537.2	3278.5	4056.7	4965.2	6102.7	6581.6	6720.7
17.5°	625.1	730.7	1051.2	1686.8	2665.7	3697.5	4886.0	6269.9	6799.9	6977.7
20°	526.5	574.0	686.7	1028.3	2053.0	3377.1	4907.1	6724.2	7419.7	7641.5
22.5°	463.1	507.1	579.3	739.5	1433.2	2979.1	5007.5	7373.9	8271.9	8555.3
25°	408.5	452.5	515.9	612.7	963.1	2519.6	5227.6	8324.7	9400.5	9712.1
27.5°	362.7	403.2	457.8	540.5	741.3	2007.2	5423.0	9250.8	10430.5	10684.1
30°	320.5	353.9	406.7	470.1	616.3	1547.7	5521.6	10060.8	11180.6	11462.3
32.5°	278.2	309.9	360.9	412.0	507.1	1179.7	5453.0	10655.9	11909.5	12089.1
35°	237.7	271.2	313.4	360.9	438.4	952.6	5109.6	11325.0	12664.9	12805.7
37.5°	204.2	232.4	276.4	313.4	396.2	762.4	4694.1	11927.1	13511.8	13714.3
40°	172.6	200.7	244.7	278.2	364.5	600.4	4319.0	12596.2	14404.5	14654.5
42.5°	140.9	174.3	213.0	267.6	313.4	457.8	3864.8	13138.5	15075.3	15388.7
45°	112.7	149.7	191.9	265.9	272.9	348.6	3426.4	13561.1	15668.7	15950.4
47.5°	89.8	126.8	184.9	248.3	223.6	276.4	3176.3	14003.0	16161.7	16387.0
50°	72.2	105.6	193.7	218.3	186.6	234.2	3169.3	14496.0	16417.0	16566.6
52.5°	58.1	86.3	163.7	167.3	158.5	206.0	3359.5	15050.6	16677.5	16800.8
55°	49.3	72.2	107.4	123.3	142.6	186.6	3502.1	15904.6	17299.1	17415.3
57.5°	38.7	61.6	82.8	98.6	126.8	170.8	3521.4	16563.1	18086.1	18161.8
59°	33.5	52.8	74.0	88.0	116.2	160.2	3442.2	16603.6	18137.2	18258.7
60°	28.2	47.5	65.1	82.8	107.4	151.4	3355.9	16309.6	17947.0	18082.6
62.5°	21.1	37.0	47.5	66.9	88.0	130.3	2947.4	15283.1	17219.9	17314.9
65°	14.1	26.4	35.2	49.3	68.7	112.7	2401.6	13952.0	16096.5	16309.6
67.5°	8.8	19.4	28.2	37.0	56.3	95.1	1711.4	11964.1	14524.2	14661.5
70°	5.3	12.3	21.1	29.9	44.0	75.7	1015.9	9456.8	12083.8	12112.0
72.5°	3.5	8.8	14.1	21.1	35.2	68.7	493.0	6164.3	8823.0	9159.3
75°	1.8	5.3	8.8	15.8	28.2	56.3	235.9	4118.3	6419.6	6516.4
77.5°	0.0	1.8	5.3	10.6	21.1	44.0	137.3	2704.5	4377.2	4477.5
80°	0.0	0.0	3.5	8.8	15.8	28.2	82.8	1595.2	2651.6	2700.9
82.5°	0.0	0.0	1.8	7.0	10.6	21.1	42.3	700.8	1736.1	1753.7
85°	0.0	0.0	1.8	7.0	8.8	14.1	15.8	95.1	771.2	785.3
87.5°	0.0	0.0	1.8	8.8	8.8	8.8	8.8	5.3	65.1	81.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)