

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: P456582

Luminaire Tested: **GALN-SA7D-760-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456582  
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-SA7D-760-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K, 1200mA 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: 38696 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

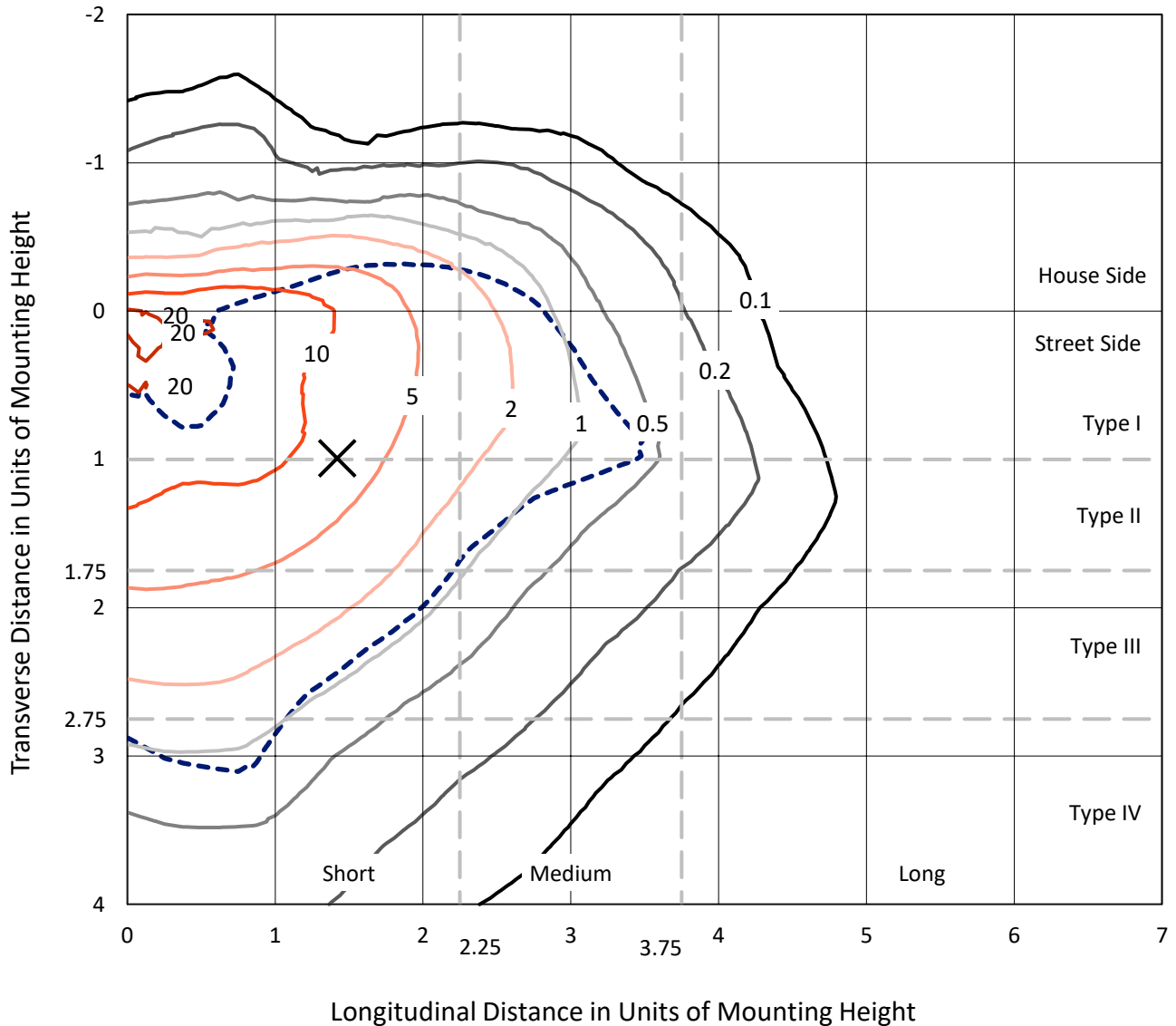
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

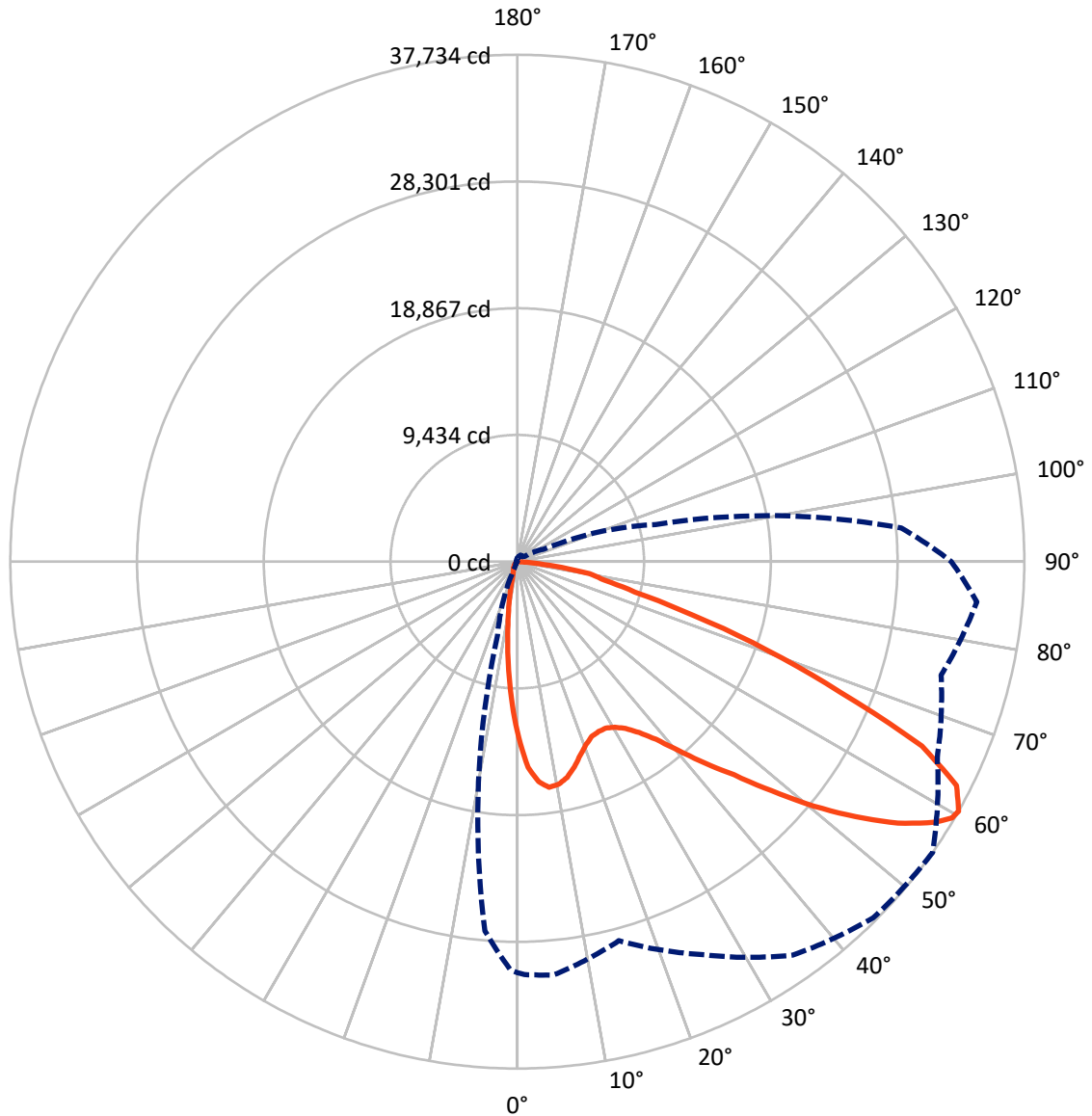
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.1 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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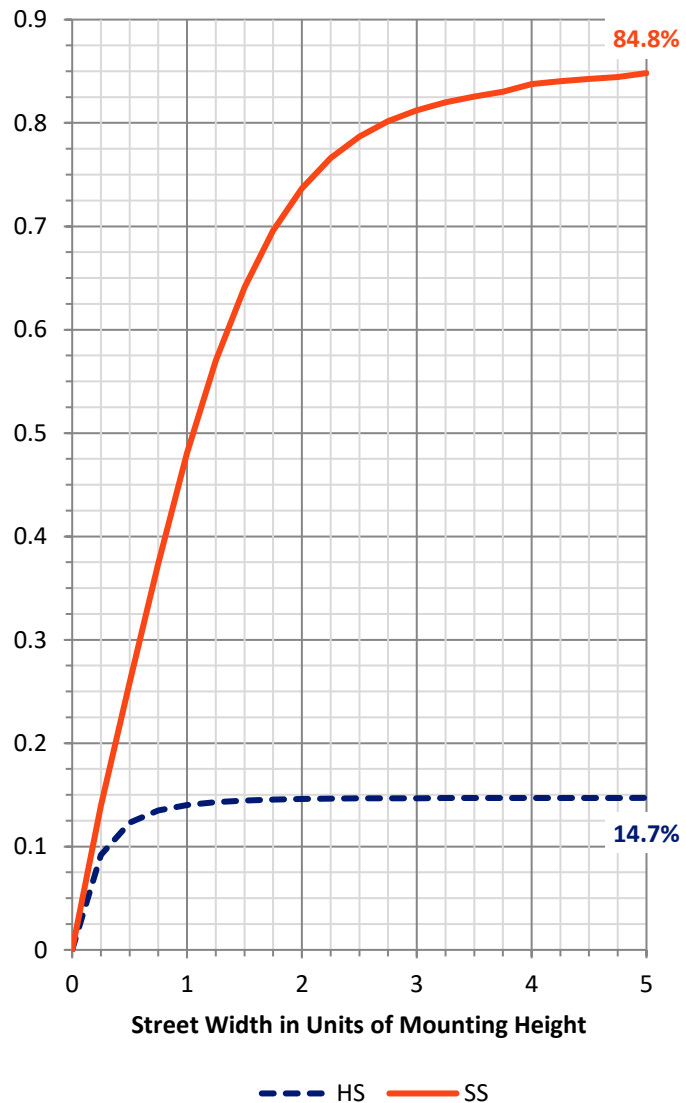
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5742.8	0.0	5742.8
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	32953.2	0.0	32953.2
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	38696.0	0.0	38696.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	970.2	2.5
10°-20°	1910.6	4.9
20°-30°	2828.1	7.3
30°-40°	4215.6	10.9
40°-50°	6173.8	16.0
50°-60°	8913.0	23.0
60°-70°	9376.0	24.2
70°-80°	3857.0	10.0
80°-90°	451.7	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°	38696.0	100.0
0°-180°	38696.0	100.0



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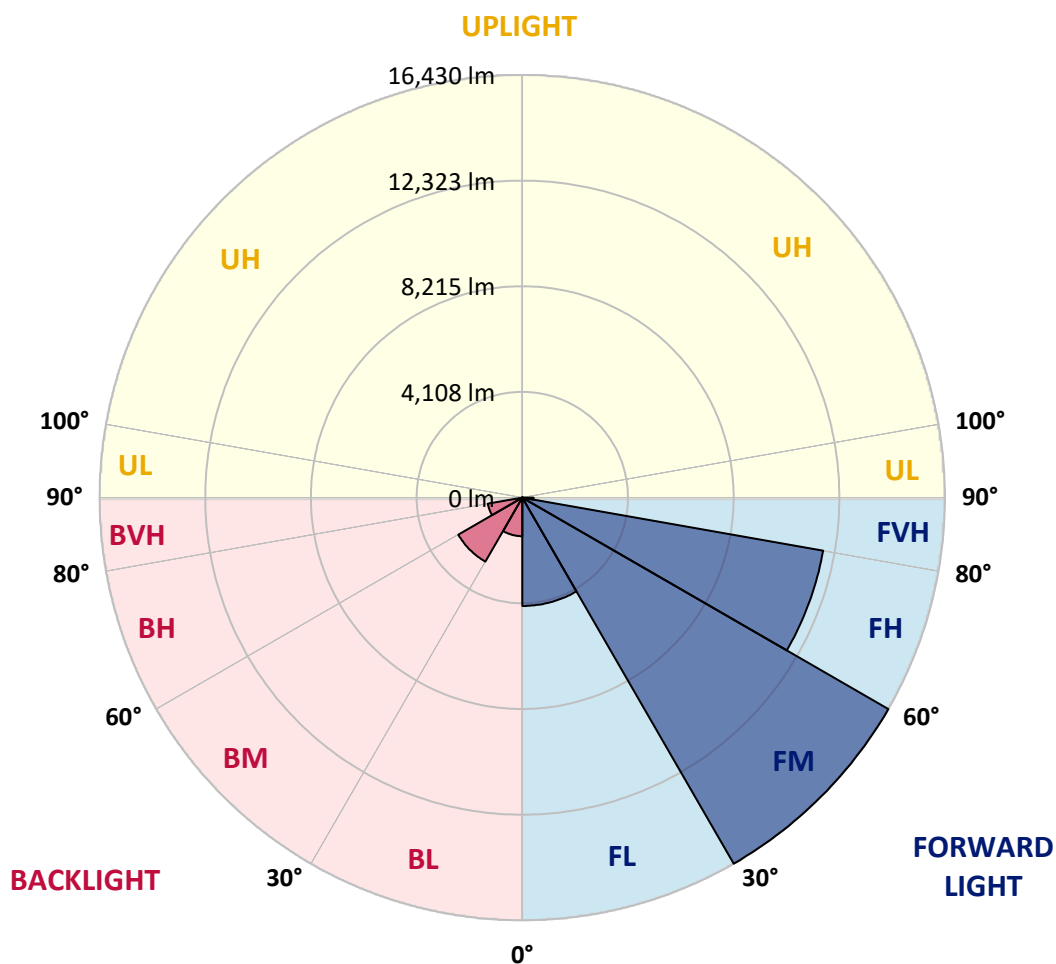
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4210.7	10.9			
FM	(30°-60°)	16430.4	42.5			
FH	(60°-80°)	11873.7	30.7			G4/12000
FVH	(80°-90°)	438.4	1.1			G3/500
BL	(0°-30°)	1498.3	3.9	B3/2500		
BM	(30°-60°)	2871.9	7.4	B3/5000		
BH	(60°-80°)	1359.3	3.5	B3/2500		G3/2500
BVH	(80°-90°)	13.3	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4
2.5°	14314.6	14290.8	14502.2	14847.8	15196.2	15377.9	15342.2	15327.3	15038.4	14826.9	14383.1
5°	14284.8	14406.9	14785.2	15720.4	16429.3	16771.9	16873.1	16447.2	15884.3	15068.2	14061.4
7.5°	13430.0	13581.9	14198.4	15660.9	16920.8	17665.4	17638.6	16956.5	15794.9	14532.0	13096.4
10°	12369.7	12548.4	13272.1	15047.3	16682.5	17665.4	17719.0	16855.3	15410.7	13790.4	12280.3
12.5°	11622.1	11833.5	12634.7	14475.4	16068.9	17036.9	17099.5	16474.0	15121.8	13504.5	11836.5
15°	11368.9	11568.4	12381.6	14186.5	15416.6	15937.9	15923.0	15857.5	15008.6	13573.0	11860.3
17.5°	11803.7	11967.6	12884.9	14317.6	14806.1	14752.4	14829.9	15145.6	15032.4	14147.8	12610.9
20°	12926.6	13093.4	14079.3	14719.7	14338.4	13998.9	14034.6	14561.8	15252.8	15229.0	13784.4
22.5°	14472.5	14755.4	15649.0	15500.0	14275.9	13531.3	13456.8	14141.9	15628.1	16474.0	15369.0
25°	16429.3	16715.3	17412.2	16745.0	14582.7	13421.1	13352.6	14013.8	16083.8	17689.2	17153.1
27.5°	18073.5	18290.9	18984.9	17957.3	15035.4	13468.7	13355.5	14031.6	16453.2	18722.8	18657.2
30°	19389.9	19550.8	19958.8	18523.2	15425.6	13677.2	13546.2	14293.8	16617.0	19226.1	19875.4
32.5°	20450.3	20721.3	20849.4	19127.8	15985.5	14070.4	13847.0	14797.1	17016.1	19848.6	21153.2
35°	21662.5	21975.3	21811.5	19705.7	16724.2	14683.9	14409.9	15613.2	17620.7	20423.5	22636.5
37.5°	23199.4	23559.8	22919.4	20313.3	17504.6	15607.3	15479.2	16759.9	18538.1	21245.5	24227.0
40°	24789.9	24998.4	23994.7	21051.9	18463.6	16950.6	17072.7	18463.6	19738.4	22231.4	25918.8
42.5°	26032.0	26228.5	25099.7	21671.5	19443.6	18544.1	19053.4	20518.8	21114.5	23241.1	27181.7
45°	26982.1	27148.9	25865.2	22347.6	20766.0	20852.4	21814.4	22636.5	22493.5	23857.7	28155.6
47.5°	27720.8	27863.7	26454.9	23074.3	22746.7	23676.0	25147.4	25495.8	23923.2	24524.9	29037.3
50°	28024.6	28066.3	26639.6	24000.6	24995.5	27274.0	28807.9	28596.4	25561.4	25266.5	29975.5
52.5°	28420.7	28411.8	27166.8	24882.3	27110.2	30490.8	32021.7	31542.2	27414.0	26377.5	31029.9
55°	29460.2	29472.1	28295.6	26133.2	28912.2	33088.0	34726.2	34377.7	29367.9	28253.9	32260.0
57.5°	30723.1	30767.8	29901.0	27595.7	30633.7	34970.4	36745.6	36611.5	32009.8	30341.8	33421.6
59°	30886.9	30976.3	30660.5	28626.2	31655.3	35548.2	37436.6	37567.6	33424.6	31717.9	34050.0
60°	30589.0	30738.0	30880.9	29210.0	32254.0	35756.7	37478.3	37734.4	34487.9	32653.1	34336.0
62.5°	29290.4	29525.7	30243.5	31006.0	33001.6	35107.4	36146.9	36683.0	35804.4	35110.4	34362.8
65°	27589.7	27711.8	28748.3	31324.7	31551.1	32075.3	32397.0	33085.0	34222.8	36057.5	33132.7
67.5°	24801.9	25162.2	26431.1	29475.1	27271.0	26651.5	26571.1	25886.0	28840.7	33799.9	30100.6
70°	20489.0	20649.8	22213.5	24164.5	20581.3	19628.2	20009.5	19753.3	22356.5	29096.8	24227.0
72.5°	15494.1	15857.5	17385.4	19261.9	14004.8	12768.8	13820.2	13724.9	16792.7	23384.1	16643.8
75°	11023.4	11258.7	13206.6	15074.1	9808.2	8310.0	8688.2	9042.7	11723.3	18463.6	9835.0
77.5°	7574.3	7776.8	9239.3	9969.0	7154.3	6853.5	6269.7	6612.2	7681.5	10954.9	5352.3
80°	4569.0	4560.1	5522.1	5700.8	4983.0	5787.2	4854.9	5450.6	4643.5	4688.1	2073.0
82.5°	2966.6	2936.8	3377.6	3681.4	2773.0	2915.9	1956.9	2820.6	3026.1	1307.6	655.3
85°	1328.4	1385.0	1623.3	2141.5	1215.2	646.3	399.1	866.7	1289.7	658.2	0.0
87.5°	137.0	107.2	285.9	521.2	166.8	17.9	59.6	29.8	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°	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4
2.5°	14177.6	14004.8	13489.6	13007.0	12593.0	12086.7	11759.1	11243.8	10931.0	10835.7	10850.6
5°	13608.7	13111.3	12131.4	11348.0	10475.3	9977.9	9221.4	8494.6	8101.5	7955.5	7890.0
7.5°	12417.3	11884.2	10701.7	9471.6	8536.3	7663.6	7100.7	6460.3	6022.5	5662.1	5599.6
10°	11532.7	10832.8	9367.3	8044.9	7306.2	6651.0	6088.0	5447.7	4932.4	4521.3	4408.2
12.5°	11002.5	10219.2	8584.0	7476.0	6776.1	6102.9	5370.2	4628.6	4101.4	3657.6	3452.1
15°	10907.2	9998.8	8363.6	7067.9	6204.2	5391.1	4417.1	3615.9	3073.8	2653.8	2525.8
17.5°	11482.1	10394.9	8330.8	6642.0	5456.6	4303.9	3291.2	2627.0	2016.4	1781.1	1688.8
20°	12506.7	11094.9	8327.8	6147.6	4688.1	3315.1	2311.3	1712.6	1465.4	1352.2	1298.6
22.5°	13903.6	12048.0	8485.7	5721.7	3889.9	2445.3	1650.1	1364.1	1221.2	1128.8	1108.0
25°	15610.2	13459.8	8872.9	5432.8	3279.3	1918.1	1361.2	1167.6	1048.4	1006.7	988.9
27.5°	17126.3	14812.0	9298.8	5134.9	2841.5	1697.7	1262.9	1069.3	974.0	941.2	914.4
30°	18433.8	16039.1	9504.3	4741.7	2490.0	1554.8	1280.7	1143.7	1018.6	920.4	875.7
32.5°	19524.0	16980.3	9638.4	4384.3	2192.2	1271.8	1012.7	884.6	828.0	792.3	762.5
35°	20888.1	17999.0	9558.0	4181.8	2040.3	1158.6	923.3	762.5	667.2	595.7	565.9
37.5°	22317.8	19017.6	9418.0	4015.0	1971.8	1075.2	878.7	723.8	619.5	545.1	506.3
40°	23798.1	19961.8	9254.2	3860.1	1909.2	1021.6	851.8	691.0	586.8	506.3	464.6
42.5°	25153.3	20882.2	9188.6	3758.8	1807.9	1030.6	831.0	676.1	554.0	470.6	434.9
45°	26249.4	21754.9	9278.0	3705.2	1697.7	1015.7	837.0	658.2	527.2	446.8	411.0
47.5°	27419.9	22988.0	9566.9	3651.6	1590.5	944.2	881.6	655.3	515.3	431.9	393.2
50°	28781.1	24566.5	10228.1	3520.6	1459.5	866.7	938.2	652.3	500.4	414.0	375.3
52.5°	30595.0	26359.6	10910.2	3291.2	1268.8	792.3	896.5	643.4	470.6	393.2	354.4
55°	32224.2	28248.0	11488.0	3020.2	1027.6	685.1	807.2	604.6	420.0	357.4	321.7
57.5°	32897.4	29314.3	11470.1	2644.9	822.1	601.7	664.2	554.0	366.4	315.7	285.9
59°	32650.2	29180.2	11085.9	2367.9	750.6	557.0	551.0	548.0	342.5	285.9	262.1
60°	32301.7	28691.8	10671.9	2230.9	705.9	527.2	506.3	542.1	321.7	268.1	244.2
62.5°	30967.3	26666.4	9298.8	1998.6	646.3	446.8	405.1	458.7	285.9	232.3	211.5
65°	29034.3	23553.9	7872.1	1933.0	628.5	369.3	336.6	327.6	244.2	196.6	178.7
67.5°	25263.5	19932.0	6376.9	1888.4	634.4	309.8	294.9	247.2	202.5	163.8	151.9
70°	20226.9	15541.7	5221.3	1837.7	640.4	253.2	247.2	196.6	163.8	137.0	125.1
72.5°	12289.2	9212.5	4110.3	1596.5	622.5	202.5	220.4	148.9	119.1	98.3	92.3
75°	7598.1	6305.5	2549.6	1242.0	411.0	148.9	154.9	92.3	80.4	62.5	62.5
77.5°	4402.2	3982.2	911.4	446.8	181.7	89.4	68.5	47.7	44.7	26.8	26.8
80°	1825.8	1462.4	315.7	151.9	98.3	41.7	14.9	3.0	0.0	0.0	0.0
82.5°	533.1	473.6	86.4	68.5	29.8	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°	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4
2.5°	10597.5	10499.2	10454.5	10606.4	10466.4	10645.1	10508.1	10567.7	10743.4	10820.8	11020.4
5°	7931.7	7830.4	7782.8	8012.1	8000.2	8113.4	8101.5	8205.7	8295.1	8095.5	8301.0
7.5°	5525.1	5456.6	5569.8	5748.5	5939.1	5876.6	5876.6	5736.6	5784.2	5754.4	5745.5
10°	4202.6	3967.3	3907.8	3901.8	3973.3	3988.2	3907.8	3714.2	3785.7	3806.5	3931.6
12.5°	3306.1	3124.4	2847.4	2722.3	2689.6	2716.4	2451.3	2281.5	2361.9	2314.3	2436.4
15°	2370.9	2222.0	2058.1	1918.1	1879.4	1825.8	1536.9	1334.4	1310.5	1319.5	1340.3
17.5°	1691.8	1590.5	1590.5	1441.6	1361.2	1200.3	1054.4	965.0	956.1	965.0	979.9
20°	1248.0	1194.4	1188.4	1149.7	1060.3	953.1	851.8	834.0	828.0	842.9	848.9
22.5°	1075.2	1018.6	971.0	968.0	884.6	795.3	747.6	723.8	726.8	732.7	747.6
25°	962.1	902.5	851.8	822.1	762.5	699.9	655.3	643.4	643.4	652.3	655.3
27.5°	881.6	807.2	762.5	720.8	667.2	613.6	574.8	565.9	560.0	565.9	580.8
30°	825.0	750.6	694.0	631.4	589.7	539.1	506.3	494.4	491.5	494.4	506.3
32.5°	705.9	661.2	616.5	560.0	509.3	476.6	440.8	420.0	420.0	425.9	437.8
35°	533.1	509.3	506.3	491.5	449.8	414.0	372.3	351.5	351.5	363.4	369.3
37.5°	470.6	425.9	420.0	414.0	396.1	348.5	309.8	291.9	288.9	297.8	309.8
40°	428.9	378.3	351.5	345.5	348.5	294.9	253.2	235.3	235.3	238.3	250.2
42.5°	396.1	336.6	288.9	283.0	294.9	247.2	205.5	187.6	187.6	187.6	202.5
45°	369.3	300.8	244.2	214.5	232.3	202.5	166.8	148.9	143.0	148.9	154.9
47.5°	351.5	274.0	214.5	172.8	172.8	160.8	134.0	113.2	107.2	110.2	119.1
50°	336.6	250.2	181.7	140.0	125.1	128.1	101.3	86.4	80.4	80.4	89.4
52.5°	312.7	226.4	157.9	119.1	95.3	86.4	74.5	62.5	59.6	62.5	68.5
55°	283.0	205.5	137.0	98.3	74.5	59.6	53.6	44.7	41.7	44.7	53.6
57.5°	250.2	172.8	110.2	77.4	50.6	38.7	35.7	29.8	23.8	26.8	32.8
59°	229.3	154.9	95.3	62.5	38.7	26.8	26.8	20.8	14.9	17.9	26.8
60°	220.4	143.0	80.4	53.6	32.8	20.8	20.8	14.9	8.9	11.9	20.8
62.5°	187.6	119.1	62.5	32.8	14.9	3.0	8.9	3.0	0.0	3.0	8.9
65°	157.9	95.3	41.7	14.9	0.0	0.0	0.0	0.0	0.0	0.0	3.0
67.5°	131.1	71.5	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	104.2	47.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	71.5	26.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	44.7	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	17.9	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°	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4	13102.4
2.5°	11032.3	11458.2	11720.3	12214.8	12721.1	13111.3	13599.8	14037.6	14219.3	14314.6
5°	8509.5	9102.3	9605.6	10359.2	11059.1	11911.0	12774.7	13793.4	14183.5	14284.8
7.5°	5971.9	6576.5	7103.7	7976.4	8974.2	10114.9	11407.6	12700.3	13269.2	13430.0
10°	4312.8	4959.2	5602.5	6475.2	7407.5	8643.6	9989.8	11589.3	12244.6	12369.7
12.5°	2722.3	3416.3	4461.8	5540.0	6525.9	7520.7	8929.5	10668.9	11392.7	11622.1
15°	1578.6	2096.9	2886.2	4292.0	5545.9	6862.4	8399.3	10323.4	11133.6	11368.9
17.5°	1057.4	1236.1	1778.2	2853.4	4509.4	6254.8	8265.3	10606.4	11502.9	11803.7
20°	890.6	971.0	1161.6	1739.4	3472.9	5712.7	8301.0	11374.8	12551.3	12926.6
22.5°	783.3	857.8	979.9	1251.0	2424.5	5039.6	8470.8	12473.9	13992.9	14472.5
25°	691.0	765.5	872.7	1036.5	1629.2	4262.2	8843.1	14082.3	15902.1	16429.3
27.5°	613.6	682.1	774.4	914.4	1253.9	3395.5	9173.7	15649.0	17644.5	18073.5
30°	542.1	598.7	688.0	795.3	1042.5	2618.1	9340.5	17019.1	18913.4	19389.9
32.5°	470.6	524.2	610.6	697.0	857.8	1995.6	9224.4	18025.8	20146.5	20450.3
35°	402.1	458.7	530.2	610.6	741.6	1611.4	8643.6	19157.6	21424.2	21662.5
37.5°	345.5	393.2	467.6	530.2	670.2	1289.7	7940.6	20176.3	22856.9	23199.4
40°	291.9	339.5	414.0	470.6	616.5	1015.7	7306.2	21308.1	24367.0	24789.9
42.5°	238.3	294.9	360.4	452.7	530.2	774.4	6537.8	22225.5	25501.8	26032.0
45°	190.6	253.2	324.7	449.8	461.7	589.7	5796.1	22940.3	26505.5	26982.1
47.5°	151.9	214.5	312.7	420.0	378.3	467.6	5373.2	23687.9	27339.5	27720.8
50°	122.1	178.7	327.6	369.3	315.7	396.1	5361.3	24521.9	27771.4	28024.6
52.5°	98.3	145.9	277.0	283.0	268.1	348.5	5683.0	25460.1	28212.2	28420.7
55°	83.4	122.1	181.7	208.5	241.3	315.7	5924.2	26904.7	29263.6	29460.2
57.5°	65.5	104.2	140.0	166.8	214.5	288.9	5957.0	28018.6	30595.0	30723.1
59°	56.6	89.4	125.1	148.9	196.6	271.0	5822.9	28087.1	30681.4	30886.9
60°	47.7	80.4	110.2	140.0	181.7	256.1	5677.0	27589.7	30359.7	30589.0
62.5°	35.7	62.5	80.4	113.2	148.9	220.4	4986.0	25853.3	29129.6	29290.4
65°	23.8	44.7	59.6	83.4	116.2	190.6	4062.7	23601.5	27229.3	27589.7
67.5°	14.9	32.8	47.7	62.5	95.3	160.8	2895.1	20238.8	24569.5	24801.9
70°	8.9	20.8	35.7	50.6	74.5	128.1	1718.6	15997.4	20441.3	20489.0
72.5°	6.0	14.9	23.8	35.7	59.6	116.2	834.0	10427.7	14925.2	15494.1
75°	3.0	8.9	14.9	26.8	47.7	95.3	399.1	6966.7	10859.6	11023.4
77.5°	0.0	3.0	8.9	17.9	35.7	74.5	232.3	4575.0	7404.5	7574.3
80°	0.0	0.0	6.0	14.9	26.8	47.7	140.0	2698.5	4485.6	4569.0
82.5°	0.0	0.0	3.0	11.9	17.9	35.7	71.5	1185.4	2936.8	2966.6
85°	0.0	0.0	3.0	11.9	14.9	23.8	26.8	160.8	1304.6	1328.4
87.5°	0.0	0.0	3.0	14.9	14.9	14.9	14.9	8.9	110.2	137.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)