

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: P459395

Luminaire Tested: **GALN-SA8C-735-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459395
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-SA8C-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 37979 lumens
Efficiency: N/A
Efficacy: 88.5 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

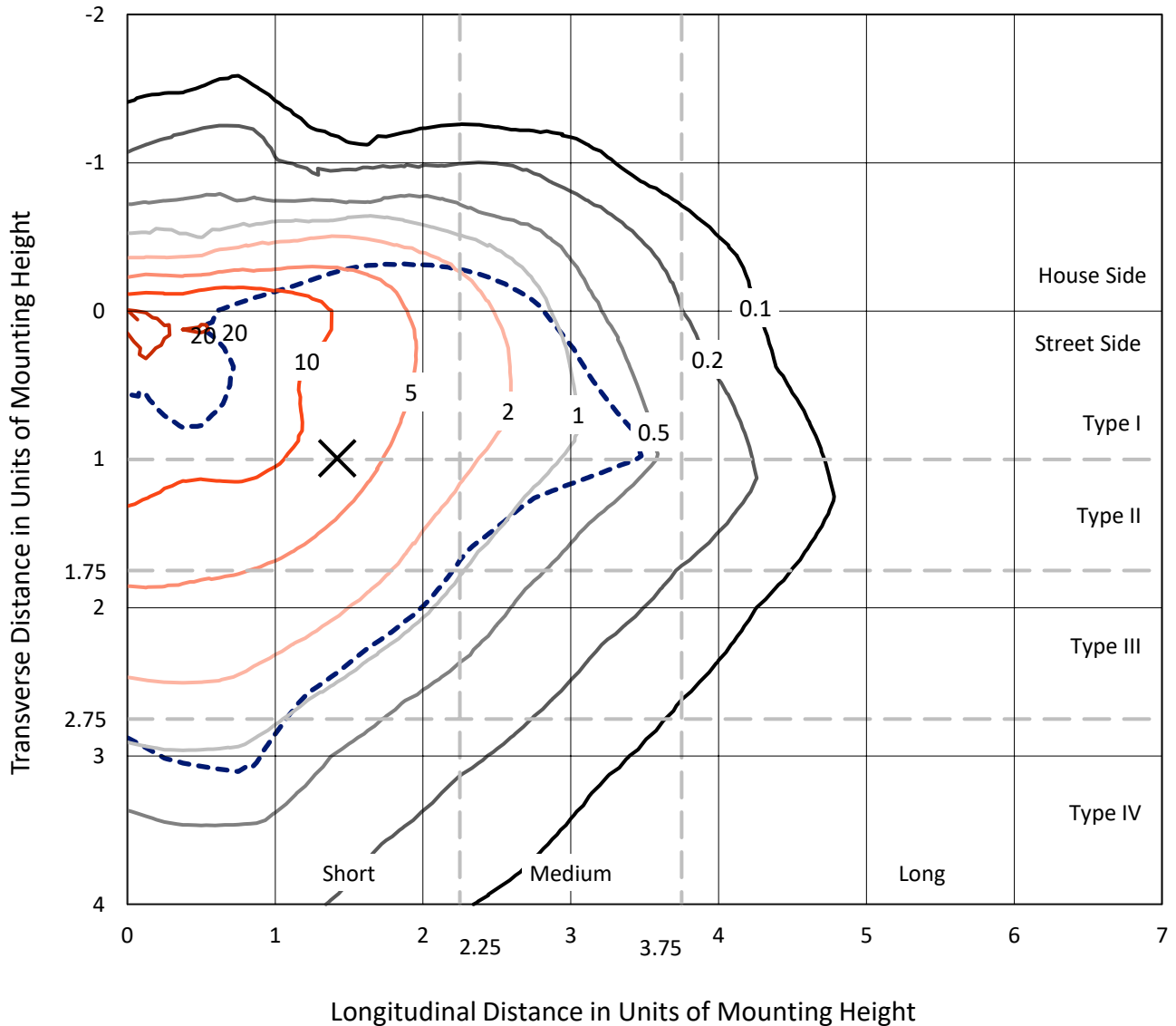
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

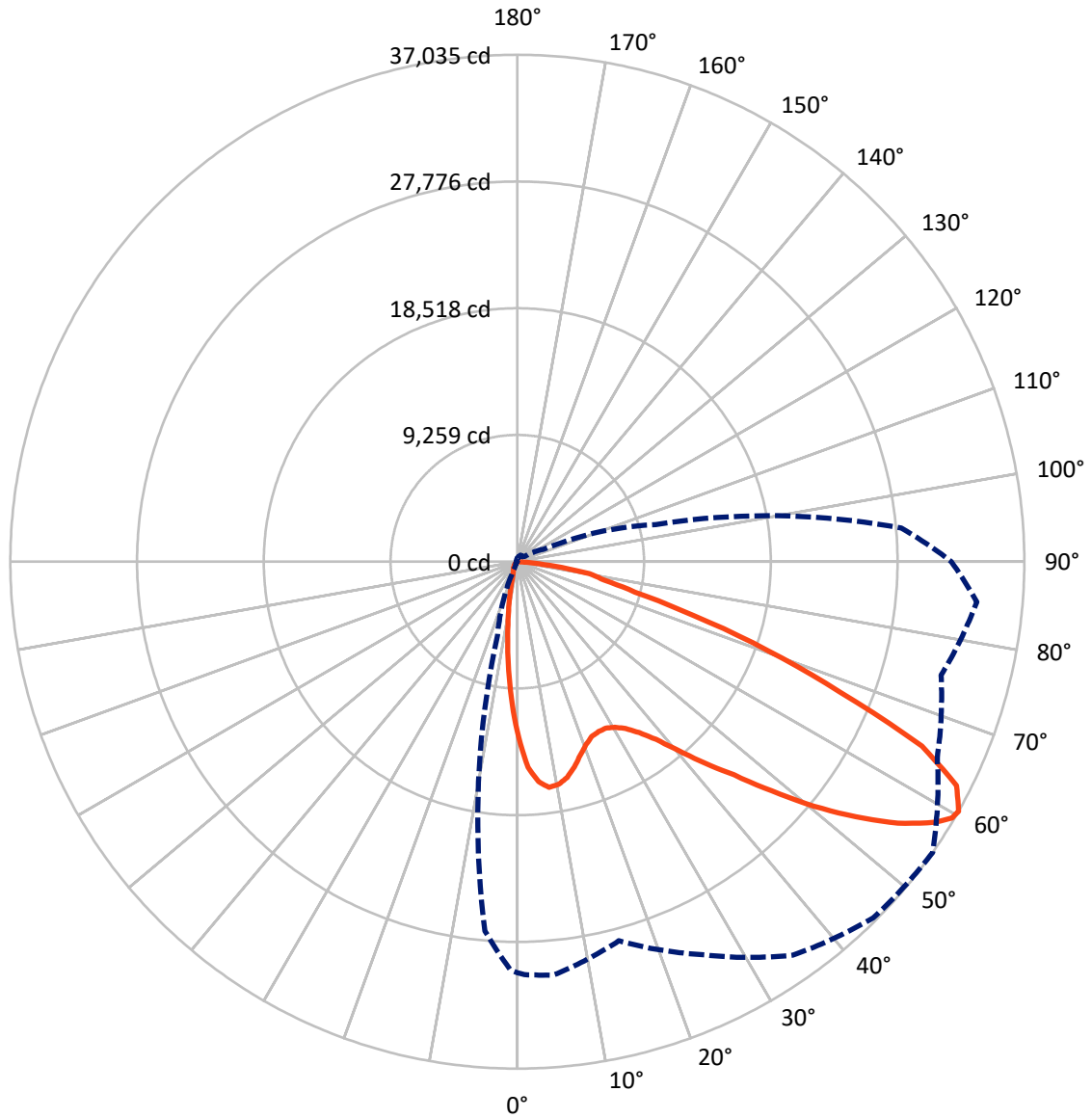
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.6 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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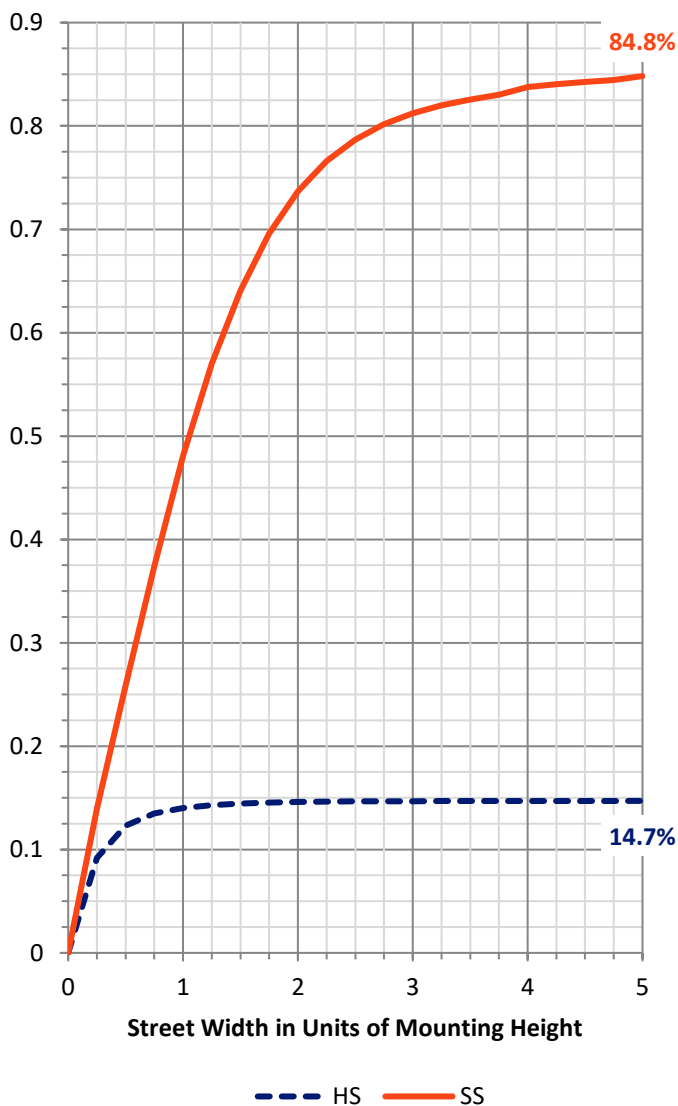
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5636.4	0.0	5636.4
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	32342.6	0.0	32342.6
	% Fixture	85.2	0.0	85.2
Total	Lumens	37979.0	0.0	37979.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	952.3	2.5
10°-20°	1875.2	4.9
20°-30°	2775.7	7.3
30°-40°	4137.5	10.9
40°-50°	6059.4	16.0
50°-60°	8747.8	23.0
60°-70°	9202.3	24.2
70°-80°	3785.5	10.0
80°-90°	443.4	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°	37979.0	100.0
0°-180°	37979.0	100.0



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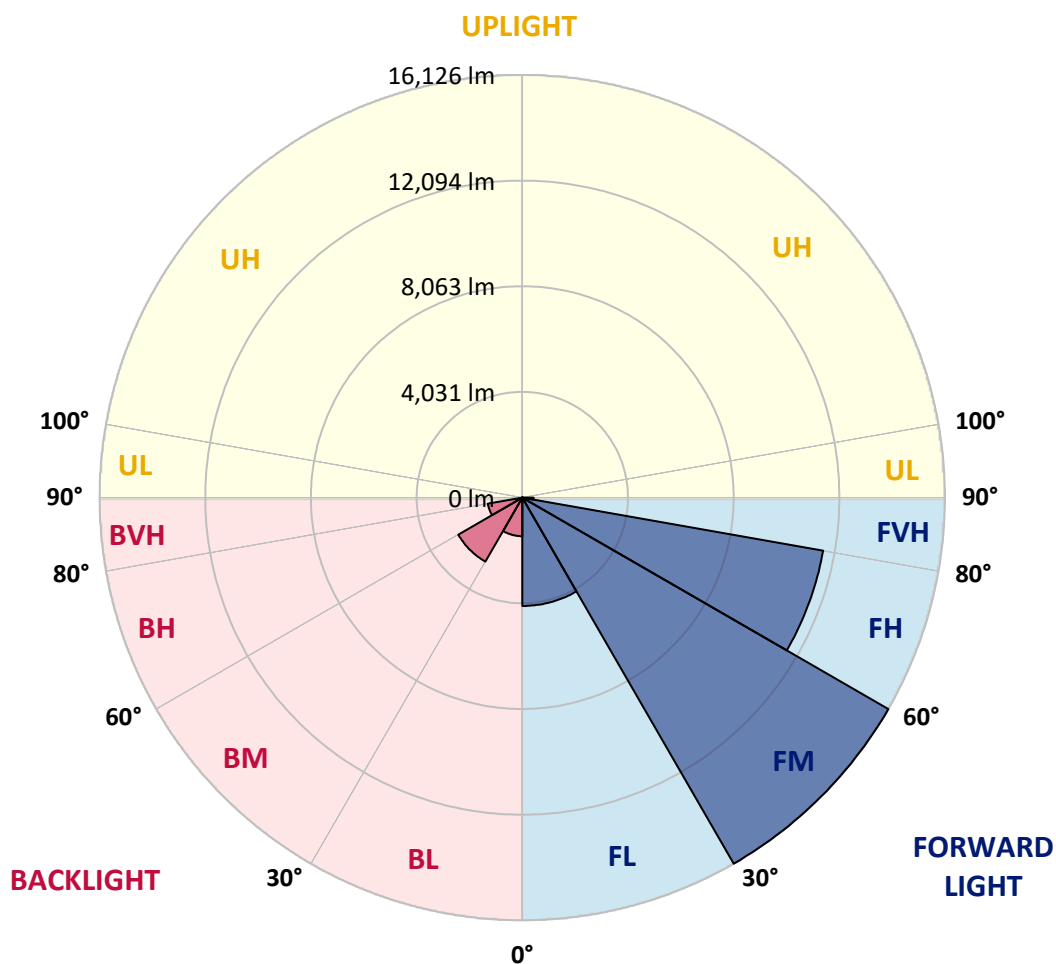
CATALOG NUMBER: GALN-SA8C-735-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4132.6	10.9			
FM	(30°-60°)	16125.9	42.5			
FH	(60°-80°)	11653.7	30.7			G4/12000
FVH	(80°-90°)	430.3	1.1			G3/500
BL	(0°-30°)	1470.6	3.9	B3/2500		
BM	(30°-60°)	2818.7	7.4	B3/5000		
BH	(60°-80°)	1334.1	3.5	B3/2500		G3/2500
BVH	(80°-90°)	13.0	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°	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6
2.5°	14049.4	14026.0	14233.5	14572.6	14914.7	15093.0	15057.9	15043.3	14759.7	14552.2	14116.6
5°	14020.1	14140.0	14511.2	15429.2	16124.9	16461.1	16560.5	16142.4	15589.9	14789.0	13800.9
7.5°	13181.1	13330.2	13935.4	15370.7	16607.3	17338.1	17311.8	16642.3	15502.2	14262.8	12853.7
10°	12140.5	12315.9	13026.2	14768.5	16373.4	17338.1	17390.7	16542.9	15125.1	13534.9	12052.8
12.5°	11406.7	11614.3	12400.6	14207.2	15771.2	16721.3	16782.6	16168.8	14841.6	13254.2	11617.2
15°	11158.2	11354.1	12152.1	13923.7	15131.0	15642.6	15627.9	15563.6	14730.5	13321.5	11640.6
17.5°	11585.0	11745.8	12646.2	14052.3	14531.7	14479.1	14555.1	14865.0	14753.9	13885.7	12377.2
20°	12687.1	12850.8	13818.4	14446.9	14072.8	13739.5	13774.6	14292.0	14970.2	14946.8	13529.0
22.5°	14204.3	14482.0	15359.0	15212.8	14011.4	13280.5	13207.5	13879.8	15338.5	16168.8	15084.2
25°	16124.9	16405.5	17089.6	16434.8	14312.5	13172.4	13105.1	13754.1	15785.8	17361.5	16835.3
27.5°	17738.6	17952.0	18633.1	17624.6	14756.8	13219.1	13108.1	13771.7	16148.3	18375.8	18311.5
30°	19030.7	19188.5	19589.0	18180.0	15139.8	13423.8	13295.2	14028.9	16309.1	18869.9	19507.2
32.5°	20071.4	20337.4	20463.1	18773.4	15689.3	13809.7	13590.4	14522.9	16700.8	19480.9	20761.3
35°	21261.1	21568.1	21407.3	19340.5	16414.3	14411.9	14142.9	15323.9	17294.2	20045.0	22217.1
37.5°	22769.6	23123.3	22494.8	19936.9	17180.2	15318.1	15192.4	16449.4	18194.6	20851.9	23778.1
40°	24330.6	24535.2	23550.1	20661.9	18121.5	16636.5	16756.3	18121.5	19372.7	21819.5	25438.5
42.5°	25549.6	25742.6	24634.6	21269.9	19083.3	18200.4	18700.3	20138.6	20723.3	22810.5	26678.0
45°	26482.1	26645.9	25385.9	21933.5	20381.2	20466.0	21410.2	22217.1	22076.7	23415.6	27633.9
47.5°	27207.1	27347.4	25964.7	22646.8	22325.2	23237.3	24681.4	25023.4	23479.9	24070.4	28499.2
50°	27505.3	27546.2	26146.0	23555.9	24532.3	26768.6	28274.1	28066.6	25087.7	24798.3	29420.1
52.5°	27894.1	27885.3	26663.4	24421.2	26607.9	29925.8	31428.4	30957.7	26906.0	25888.7	30454.9
55°	28914.3	28926.0	27771.3	25649.0	28376.4	32474.9	34082.7	33740.7	28823.7	27730.4	31662.2
57.5°	30153.8	30197.7	29347.0	27084.3	30066.1	34322.4	36064.7	35933.2	31416.7	29779.6	32802.3
59°	30314.6	30402.3	30092.4	28095.8	31068.8	34889.6	36742.9	36871.5	32805.2	31130.2	33419.1
60°	30022.3	30168.4	30308.7	28668.8	31656.4	35094.2	36783.8	37035.3	33848.9	32048.1	33699.8
62.5°	28747.7	28978.6	29683.2	30431.5	32390.1	34456.9	35477.1	36003.3	35141.0	34459.8	33726.1
65°	27078.5	27198.4	28215.7	30744.3	30966.5	31481.0	31796.7	32472.0	33588.7	35389.4	32518.8
67.5°	24342.3	24696.0	25941.3	28928.9	26765.7	26157.7	26078.7	25406.4	28306.3	33173.6	29542.8
70°	20109.4	20267.2	21802.0	23716.7	20200.0	19264.5	19638.7	19387.3	21942.3	28557.7	23778.1
72.5°	15207.0	15563.6	17063.3	18905.0	13745.3	12532.2	13564.1	13470.6	16481.5	22950.8	16335.4
75°	10819.1	11050.1	12961.9	14794.8	9626.4	8156.0	8527.3	8875.1	11506.1	18121.5	9652.7
77.5°	7433.9	7632.7	9068.1	9784.3	7021.8	6726.5	6153.5	6489.7	7539.2	10751.9	5253.2
80°	4484.3	4475.6	5419.8	5595.2	4890.7	5680.0	4765.0	5349.6	4557.4	4601.3	2034.6
82.5°	2911.6	2882.4	3315.0	3613.2	2721.6	2861.9	1920.6	2768.4	2970.1	1283.3	643.1
85°	1303.8	1359.3	1593.2	2101.9	1192.7	634.4	391.7	850.7	1265.8	646.0	0.0
87.5°	134.5	105.2	280.6	511.6	163.7	17.5	58.5	29.2	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°	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6
2.5°	13914.9	13745.3	13239.6	12766.0	12359.7	11862.7	11541.2	11035.4	10728.5	10635.0	10649.6
5°	13356.5	12868.4	11906.6	11137.8	10281.2	9793.0	9050.5	8337.2	7951.4	7808.1	7743.8
7.5°	12187.2	11664.0	10503.4	9296.1	8378.2	7521.6	6969.1	6340.6	5910.9	5557.2	5495.8
10°	11319.0	10632.0	9193.8	7895.8	7170.8	6527.7	5975.2	5346.7	4841.0	4437.6	4326.5
12.5°	10798.7	10029.8	8424.9	7337.5	6650.5	5989.8	5270.7	4542.8	4025.4	3589.8	3388.1
15°	10705.1	9813.5	8208.6	6937.0	6089.2	5291.2	4335.2	3548.9	3016.8	2604.7	2479.0
17.5°	11269.3	10202.3	8176.5	6519.0	5355.5	4224.2	3230.2	2578.3	1979.1	1748.1	1657.5
20°	12274.9	10889.3	8173.5	6033.7	4601.3	3253.6	2268.5	1680.9	1438.3	1327.2	1274.6
22.5°	13646.0	11824.7	8328.5	5615.7	3817.8	2400.0	1619.5	1338.9	1198.6	1107.9	1087.5
25°	15321.0	13210.4	8708.5	5332.1	3218.6	1882.6	1335.9	1145.9	1029.0	988.1	970.5
27.5°	16809.0	14537.6	9126.5	5039.8	2788.8	1666.3	1239.5	1049.5	955.9	923.8	897.5
30°	18092.3	15742.0	9328.2	4653.9	2443.9	1526.0	1257.0	1122.5	999.8	903.3	859.4
32.5°	19162.2	16665.7	9459.8	4303.1	2151.5	1248.2	993.9	868.2	812.7	777.6	748.4
35°	20501.1	17665.5	9380.9	4104.3	2002.5	1137.2	906.2	748.4	654.8	584.7	555.4
37.5°	21904.3	18665.3	9243.5	3940.6	1935.2	1055.3	862.4	710.4	608.0	535.0	497.0
40°	23357.1	19591.9	9082.7	3788.6	1873.8	1002.7	836.1	678.2	575.9	497.0	456.0
42.5°	24687.2	20495.2	9018.4	3689.2	1774.4	1011.5	815.6	663.6	543.7	461.9	426.8
45°	25763.0	21351.8	9106.1	3636.6	1666.3	996.8	821.4	646.0	517.4	438.5	403.4
47.5°	26911.9	22562.0	9389.6	3584.0	1561.0	926.7	865.3	643.1	505.7	423.9	385.9
50°	28247.8	24111.4	10038.6	3455.3	1432.4	850.7	920.8	640.2	491.1	406.3	368.3
52.5°	30028.1	25871.2	10708.0	3230.2	1245.3	777.6	879.9	631.4	461.9	385.9	347.9
55°	31627.2	27724.6	11275.2	2964.2	1008.5	672.4	792.2	593.4	412.2	350.8	315.7
57.5°	32287.8	28771.1	11257.6	2595.9	806.8	590.5	651.9	543.7	359.6	309.9	280.6
59°	32045.2	28639.5	10880.5	2324.0	736.7	546.7	540.8	537.9	336.2	280.6	257.3
60°	31703.2	28160.1	10474.2	2189.5	692.8	517.4	497.0	532.0	315.7	263.1	239.7
62.5°	30393.5	26172.3	9126.5	1961.5	634.4	438.5	397.6	450.2	280.6	228.0	207.6
65°	28496.3	23117.4	7726.3	1897.2	616.8	362.5	330.3	321.6	239.7	192.9	175.4
67.5°	24795.4	19562.7	6258.8	1853.4	622.7	304.0	289.4	242.6	198.8	160.8	149.1
70°	19852.1	15253.8	5124.5	1803.7	628.5	248.5	242.6	192.9	160.8	134.5	122.8
72.5°	12061.5	9041.8	4034.2	1566.9	611.0	198.8	216.3	146.2	116.9	96.5	90.6
75°	7457.3	6188.6	2502.3	1219.0	403.4	146.2	152.0	90.6	78.9	61.4	61.4
77.5°	4320.6	3908.4	894.5	438.5	178.3	87.7	67.2	46.8	43.8	26.3	26.3
80°	1792.0	1435.3	309.9	149.1	96.5	40.9	14.6	2.9	0.0	0.0	0.0
82.5°	523.3	464.8	84.8	67.2	29.2	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°	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6
2.5°	10401.1	10304.6	10260.8	10409.9	10272.5	10447.9	10313.4	10371.9	10544.3	10620.3	10816.2
5°	7784.7	7685.3	7638.6	7863.7	7852.0	7963.1	7951.4	8053.7	8141.4	7945.5	8147.2
7.5°	5422.7	5355.5	5466.6	5642.0	5829.1	5767.7	5767.7	5630.3	5677.0	5647.8	5639.0
10°	4124.8	3893.8	3835.4	3829.5	3899.7	3914.3	3835.4	3645.4	3715.5	3736.0	3858.8
12.5°	3244.9	3066.5	2794.7	2671.9	2639.7	2666.0	2405.9	2239.2	2318.2	2271.4	2391.3
15°	2326.9	2180.8	2020.0	1882.6	1844.6	1792.0	1508.4	1309.6	1286.3	1295.0	1315.5
17.5°	1660.4	1561.0	1561.0	1414.9	1335.9	1178.1	1034.8	947.1	938.4	947.1	961.8
20°	1224.9	1172.2	1166.4	1128.4	1040.7	935.5	836.1	818.5	812.7	827.3	833.1
22.5°	1055.3	999.8	953.0	950.1	868.2	780.5	733.7	710.4	713.3	719.1	733.7
25°	944.2	885.8	836.1	806.8	748.4	687.0	643.1	631.4	631.4	640.2	643.1
27.5°	865.3	792.2	748.4	707.4	654.8	602.2	564.2	555.4	549.6	555.4	570.0
30°	809.8	736.7	681.1	619.7	578.8	529.1	497.0	485.3	482.3	485.3	497.0
32.5°	692.8	649.0	605.1	549.6	499.9	467.7	432.6	412.2	412.2	418.0	429.7
35°	523.3	499.9	497.0	482.3	441.4	406.3	365.4	344.9	344.9	356.6	362.5
37.5°	461.9	418.0	412.2	406.3	388.8	342.0	304.0	286.5	283.6	292.3	304.0
40°	421.0	371.3	344.9	339.1	342.0	289.4	248.5	230.9	230.9	233.9	245.6
42.5°	388.8	330.3	283.6	277.7	289.4	242.6	201.7	184.2	184.2	184.2	198.8
45°	362.5	295.3	239.7	210.5	228.0	198.8	163.7	146.2	140.3	146.2	152.0
47.5°	344.9	268.9	210.5	169.6	169.6	157.9	131.5	111.1	105.2	108.2	116.9
50°	330.3	245.6	178.3	137.4	122.8	125.7	99.4	84.8	78.9	78.9	87.7
52.5°	306.9	222.2	154.9	116.9	93.5	84.8	73.1	61.4	58.5	61.4	67.2
55°	277.7	201.7	134.5	96.5	73.1	58.5	52.6	43.8	40.9	43.8	52.6
57.5°	245.6	169.6	108.2	76.0	49.7	38.0	35.1	29.2	23.4	26.3	32.2
59°	225.1	152.0	93.5	61.4	38.0	26.3	26.3	20.5	14.6	17.5	26.3
60°	216.3	140.3	78.9	52.6	32.2	20.5	20.5	14.6	8.8	11.7	20.5
62.5°	184.2	116.9	61.4	32.2	14.6	2.9	8.8	2.9	0.0	2.9	8.8
65°	154.9	93.5	40.9	14.6	0.0	0.0	0.0	0.0	0.0	0.0	2.9
67.5°	128.6	70.2	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	102.3	46.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	70.2	26.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	43.8	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	17.5	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°	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6	12859.6
2.5°	10827.9	11245.9	11503.2	11988.4	12485.4	12868.4	13347.8	13777.5	13955.8	14049.4
5°	8351.9	8933.6	9427.6	10167.2	10854.2	11690.3	12538.0	13537.8	13920.7	14020.1
7.5°	5861.2	6454.6	6972.1	7828.6	8807.9	9927.5	11196.2	12464.9	13023.3	13181.1
10°	4232.9	4867.3	5498.7	6355.2	7270.2	8483.4	9804.7	11374.5	12017.7	12140.5
12.5°	2671.9	3353.0	4379.1	5437.3	6404.9	7381.3	8764.0	10471.3	11181.6	11406.7
15°	1549.3	2058.0	2832.7	4212.5	5443.2	6735.3	8243.7	10132.1	10927.3	11158.2
17.5°	1037.8	1213.2	1745.2	2800.5	4425.9	6138.9	8112.1	10409.9	11289.8	11585.0
20°	874.1	953.0	1140.1	1707.2	3408.6	5606.9	8147.2	11164.1	12318.8	12687.1
22.5°	768.8	841.9	961.8	1227.8	2379.6	4946.2	8313.9	12242.8	13733.7	14204.3
25°	678.2	751.3	856.5	1017.3	1599.0	4183.2	8679.3	13821.3	15607.5	16124.9
27.5°	602.2	669.4	760.1	897.5	1230.7	3332.6	9003.8	15359.0	17317.6	17738.6
30°	532.0	587.6	675.3	780.5	1023.2	2569.6	9167.5	16703.7	18562.9	19030.7
32.5°	461.9	514.5	599.3	684.1	841.9	1958.6	9053.5	17691.8	19773.2	20071.4
35°	394.6	450.2	520.3	599.3	727.9	1581.5	8483.4	18802.6	21027.3	21261.1
37.5°	339.1	385.9	459.0	520.3	657.7	1265.8	7793.5	19802.4	22433.4	22769.6
40°	286.5	333.3	406.3	461.9	605.1	996.8	7170.8	20913.3	23915.5	24330.6
42.5°	233.9	289.4	353.7	444.3	520.3	760.1	6416.6	21813.6	25029.3	25549.6
45°	187.1	248.5	318.6	441.4	453.1	578.8	5688.7	22515.2	26014.4	26482.1
47.5°	149.1	210.5	306.9	412.2	371.3	459.0	5273.6	23249.0	26832.9	27207.1
50°	119.9	175.4	321.6	362.5	309.9	388.8	5261.9	24067.5	27256.8	27505.3
52.5°	96.5	143.2	271.9	277.7	263.1	342.0	5577.7	24988.3	27689.5	27894.1
55°	81.9	119.9	178.3	204.6	236.8	309.9	5814.4	26406.1	28721.4	28914.3
57.5°	64.3	102.3	137.4	163.7	210.5	283.6	5846.6	27499.5	30028.1	30153.8
59°	55.5	87.7	122.8	146.2	192.9	266.0	5715.0	27566.7	30112.9	30314.6
60°	46.8	78.9	108.2	137.4	178.3	251.4	5571.8	27078.5	29797.2	30022.3
62.5°	35.1	61.4	78.9	111.1	146.2	216.3	4893.6	25374.2	28589.8	28747.7
65°	23.4	43.8	58.5	81.9	114.0	187.1	3987.4	23164.2	26724.8	27078.5
67.5°	14.6	32.2	46.8	61.4	93.5	157.9	2841.4	19863.8	24114.3	24342.3
70°	8.8	20.5	35.1	49.7	73.1	125.7	1686.7	15701.0	20062.6	20109.4
72.5°	5.8	14.6	23.4	35.1	58.5	114.0	818.5	10234.5	14648.6	15207.0
75°	2.9	8.8	14.6	26.3	46.8	93.5	391.7	6837.6	10658.3	10819.1
77.5°	0.0	2.9	8.8	17.5	35.1	73.1	228.0	4490.2	7267.3	7433.9
80°	0.0	0.0	5.8	14.6	26.3	46.8	137.4	2648.5	4402.5	4484.3
82.5°	0.0	0.0	2.9	11.7	17.5	35.1	70.2	1163.5	2882.4	2911.6
85°	0.0	0.0	2.9	11.7	14.6	23.4	26.3	157.9	1280.4	1303.8
87.5°	0.0	0.0	2.9	14.6	14.6	14.6	14.6	8.8	108.2	134.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)