

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: P457220

Luminaire Tested: **GALN-SA8C-740-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457220
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-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 40770 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

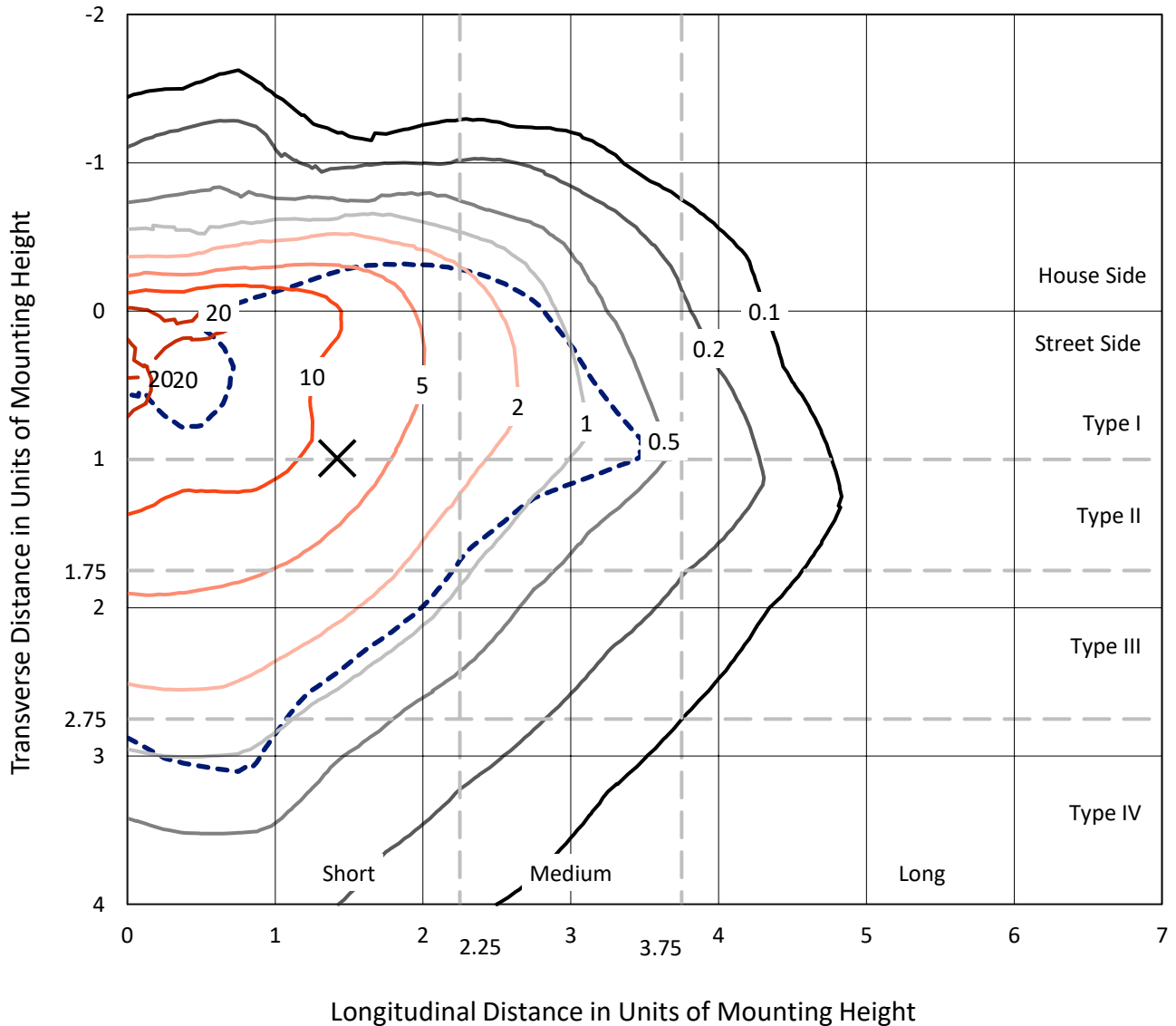
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

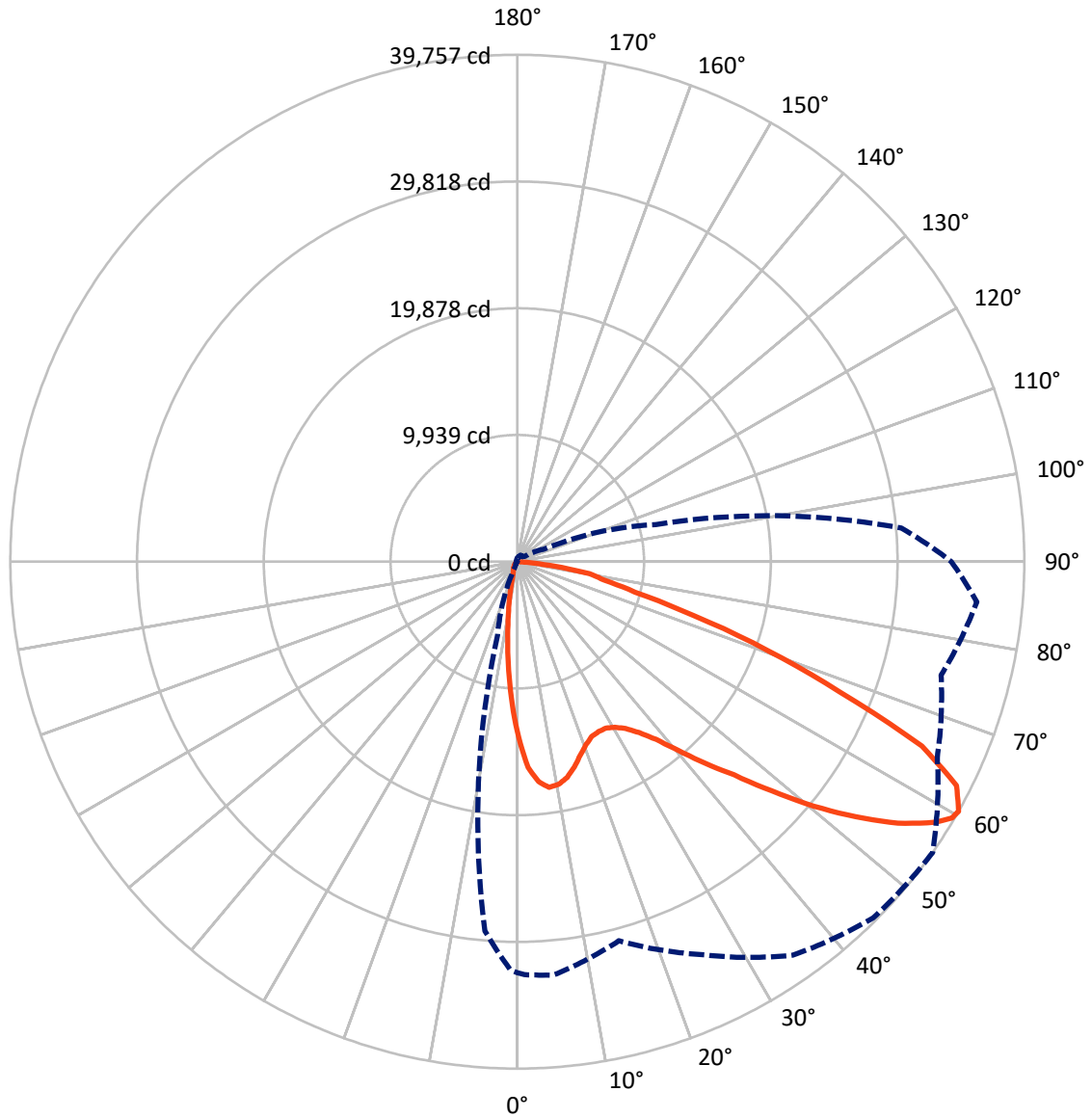
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.5 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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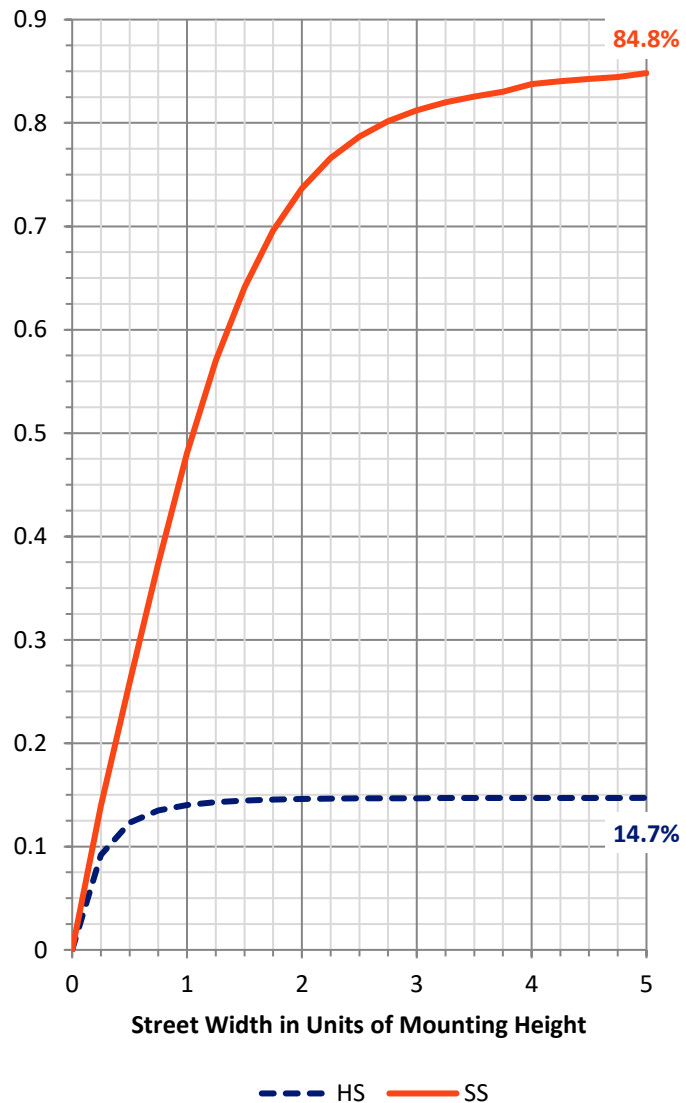
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6050.6	0.0	6050.6
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	34719.4	0.0	34719.4
	% Fixture	85.2	0.0	85.2
Total	Lumens	40770.0	0.0	40770.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1022.2	2.5
10°-20°	2013.1	4.9
20°-30°	2979.7	7.3
30°-40°	4441.5	10.9
40°-50°	6504.7	16.0
50°-60°	9390.7	23.0
60°-70°	9878.5	24.2
70°-80°	4063.7	10.0
80°-90°	475.9	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°	40770.0	100.0
0°-180°	40770.0	100.0



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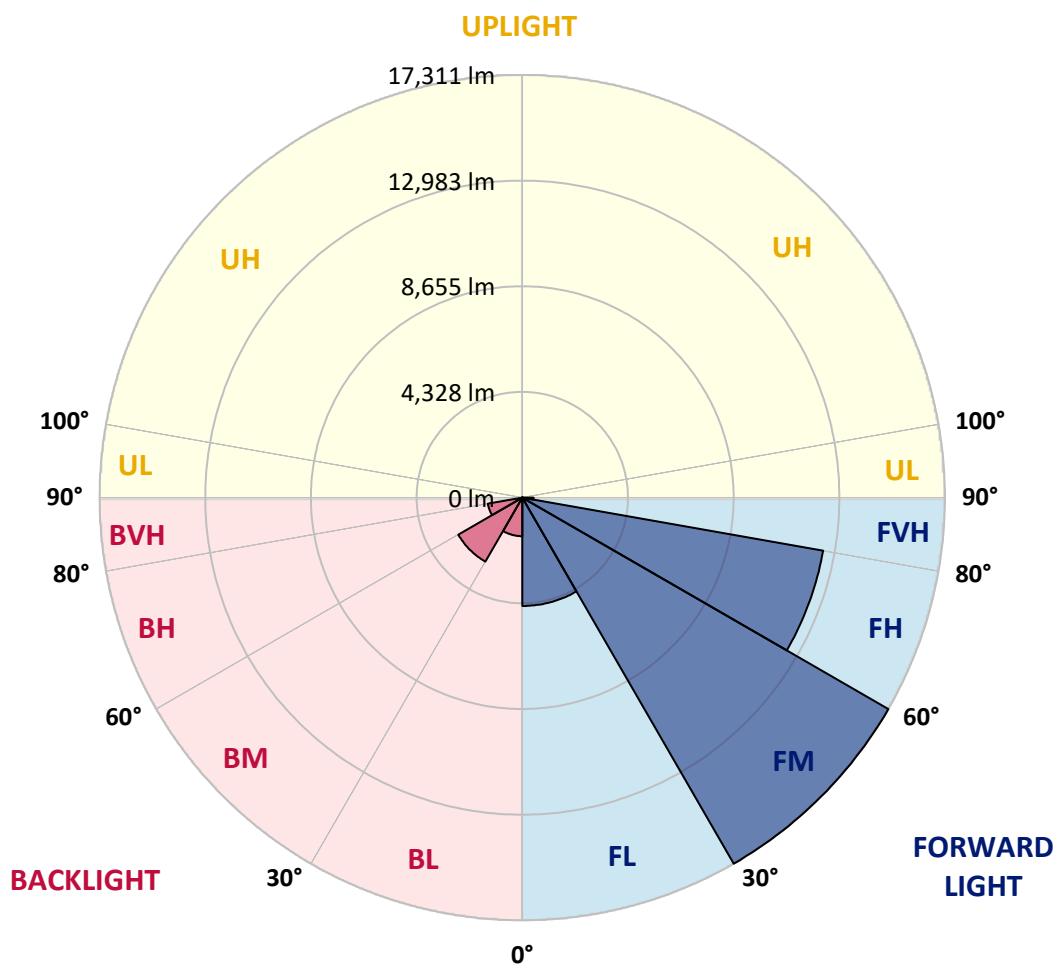
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4436.3	10.9			
FM (30°-60°)	17311.0	42.5			
FH (60°-80°)	12510.1	30.7			G5
FVH (80°-90°)	461.9	1.1			G3/500
BL (0°-30°)	1578.6	3.9	B3/2500		
BM (30°-60°)	3025.9	7.4	B3/5000		
BH (60°-80°)	1432.1	3.5	B3/2500		G3/2500
BVH (80°-90°)	14.0	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6
2.5°	15081.8	15056.7	15279.5	15643.6	16010.7	16202.1	16164.5	16148.8	15844.4	15621.6	15154.0
5°	15050.4	15179.1	15577.6	16563.0	17309.9	17670.8	17777.5	17328.7	16735.6	15875.8	14815.1
7.5°	14149.8	14309.8	14959.4	16500.3	17827.7	18612.2	18584.0	17865.3	16641.5	15310.9	13798.3
10°	13032.6	13220.9	13983.5	15853.8	17576.6	18612.2	18668.7	17758.6	16236.7	14529.5	12938.5
12.5°	12245.0	12467.8	13311.9	15251.3	16930.2	17950.1	18016.0	17357.0	15932.3	14228.3	12470.9
15°	11978.2	12188.5	13045.2	14946.9	16242.9	16792.1	16776.4	16707.4	15813.0	14300.4	12496.0
17.5°	12436.4	12609.0	13575.5	15085.0	15599.6	15543.1	15624.7	15957.4	15838.1	14906.1	13286.8
20°	13619.5	13795.2	14833.9	15508.6	15106.9	14749.2	14786.8	15342.3	16070.3	16045.2	14523.2
22.5°	15248.1	15546.3	16487.7	16330.8	15041.0	14256.5	14178.0	14899.8	16465.7	17357.0	16192.7
25°	17309.9	17611.2	18345.5	17642.5	15364.3	14140.4	14068.2	14764.9	16945.9	18637.3	18072.5
27.5°	19042.1	19271.2	20002.4	18919.8	15841.3	14190.6	14071.3	14783.7	17335.0	19726.2	19657.2
30°	20429.2	20598.6	21028.6	19516.0	16252.3	14410.3	14272.2	15059.9	17507.6	20256.6	20940.7
32.5°	21546.4	21831.9	21966.9	20153.0	16842.3	14824.5	14589.1	15590.2	17928.1	20912.5	22287.0
35°	22823.6	23153.1	22980.5	20761.8	17620.6	15471.0	15182.2	16450.0	18565.1	21518.1	23849.7
37.5°	24442.9	24822.6	24147.9	21402.0	18442.8	16443.8	16308.8	17658.2	19531.7	22384.2	25525.5
40°	26118.6	26338.3	25280.7	22180.3	19453.2	17859.1	17987.7	19453.2	20796.4	23423.0	27308.0
42.5°	27427.2	27634.3	26445.0	22833.0	20485.7	19538.0	20074.6	21618.5	22246.2	24486.8	28638.5
45°	28428.3	28604.0	27251.5	23545.3	21879.0	21970.0	22983.6	23849.7	23699.1	25136.4	29664.7
47.5°	29206.5	29357.2	27872.8	24311.0	23965.9	24945.0	26495.2	26862.3	25205.4	25839.3	30593.6
50°	29526.6	29570.5	28067.4	25287.0	26335.1	28735.8	30351.9	30129.1	26931.4	26620.7	31582.1
52.5°	29944.0	29934.6	28622.8	26215.9	28563.2	32125.0	33738.0	33232.7	28883.3	27791.2	32693.0
55°	31039.2	31051.7	29812.2	27533.9	30461.8	34861.4	36587.4	36220.2	30941.9	29768.2	33989.0
57.5°	32369.8	32416.8	31503.6	29074.7	32275.6	36844.7	38715.0	38573.8	33725.4	31968.1	35212.9
59°	32542.3	32636.5	32303.9	30160.5	33352.0	37453.5	39443.1	39581.2	35216.0	33417.9	35875.0
60°	32228.5	32385.4	32536.1	30775.6	33982.7	37673.2	39487.0	39756.9	36336.3	34403.3	36176.3
62.5°	30860.3	31108.2	31864.5	32667.9	34770.4	36989.1	38084.3	38649.1	37723.4	36992.2	36204.5
65°	29068.4	29197.1	30289.2	33003.7	33242.2	33794.5	34133.4	34858.3	36057.0	37990.1	34908.5
67.5°	26131.2	26510.9	27847.7	31054.9	28732.7	28079.9	27995.2	27273.4	30386.5	35611.4	31713.9
70°	21587.2	21756.6	23404.1	25459.6	21684.4	20680.2	21081.9	20812.0	23554.8	30656.3	25525.5
72.5°	16324.5	16707.4	18317.2	20294.3	14755.5	13453.1	14560.9	14460.5	17692.7	24637.4	17535.8
75°	11614.2	11862.1	13914.4	15882.0	10333.8	8755.4	9153.9	9527.3	12351.7	19453.2	10362.1
77.5°	7980.3	8193.6	9734.5	10503.3	7537.8	7220.8	6605.8	6966.6	8093.2	11542.0	5639.2
80°	4813.9	4804.5	5818.1	6006.4	5250.1	6097.4	5115.1	5742.8	4892.3	4939.4	2184.1
82.5°	3125.6	3094.2	3558.6	3878.7	2921.6	3072.2	2061.7	2971.8	3188.3	1377.6	690.4
85°	1399.6	1459.2	1710.3	2256.3	1280.4	681.0	420.5	913.2	1358.8	693.5	0.0
87.5°	144.4	113.0	301.3	549.2	175.7	18.8	62.8	31.4	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°	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6
2.5°	14937.5	14755.5	14212.6	13704.2	13268.0	12734.5	12389.3	11846.4	11516.9	11416.5	11432.2
5°	14338.1	13814.0	12781.6	11956.3	11036.8	10512.7	9715.6	8949.9	8535.7	8381.9	8312.9
7.5°	13082.8	12521.1	11275.3	9979.2	8993.9	8074.4	7481.3	6806.6	6345.3	5965.6	5899.7
10°	12150.8	11413.4	9869.4	8476.1	7697.8	7007.4	6414.3	5739.6	5196.7	4763.7	4644.4
12.5°	11592.2	10766.9	9044.1	7876.7	7139.2	6430.0	5658.0	4876.6	4321.2	3853.6	3637.1
15°	11491.8	10534.7	8811.9	7446.8	6536.7	5680.0	4653.8	3809.7	3238.5	2796.1	2661.1
17.5°	12097.5	10952.1	8777.3	6998.0	5749.0	4534.6	3467.6	2767.8	2124.5	1876.6	1779.3
20°	13177.0	11689.5	8774.2	6477.1	4939.4	3492.7	2435.2	1804.4	1544.0	1424.7	1368.2
22.5°	14648.8	12693.7	8940.5	6028.3	4098.4	2576.4	1738.5	1437.3	1286.6	1189.3	1167.4
25°	16446.9	14181.2	9348.5	5723.9	3455.1	2021.0	1434.1	1230.1	1104.6	1060.7	1041.9
27.5°	18044.2	15605.9	9797.2	5410.1	2993.8	1788.7	1330.6	1126.6	1026.2	991.6	963.4
30°	19421.9	16898.8	10013.8	4995.9	2623.5	1638.1	1349.4	1205.0	1073.2	969.7	922.6
32.5°	20570.4	17890.4	10155.0	4619.3	2309.7	1340.0	1067.0	932.0	872.4	834.7	803.4
35°	22007.7	18963.7	10070.2	4405.9	2149.6	1220.7	972.8	803.4	702.9	627.6	596.2
37.5°	23514.0	20036.9	9922.7	4230.2	2077.4	1132.9	925.7	762.6	652.7	574.3	533.5
40°	25073.6	21031.7	9750.2	4067.0	2011.5	1076.4	897.5	728.0	618.2	533.5	489.5
42.5°	26501.5	22001.4	9681.1	3960.3	1904.8	1085.8	875.5	712.4	583.7	495.8	458.2
45°	27656.3	22920.9	9775.3	3903.8	1788.7	1070.1	881.8	693.5	555.4	470.7	433.1
47.5°	28889.6	24220.0	10079.7	3847.3	1675.8	994.8	928.9	690.4	542.9	455.0	414.2
50°	30323.7	25883.3	10776.3	3709.3	1537.7	913.2	988.5	687.2	527.2	436.2	395.4
52.5°	32234.8	27772.4	11494.9	3467.6	1336.8	834.7	944.6	677.8	495.8	414.2	373.4
55°	33951.4	29762.0	12103.7	3182.1	1082.7	721.8	850.4	637.0	442.5	376.6	338.9
57.5°	34660.6	30885.4	12084.9	2786.7	866.1	633.9	699.8	583.7	386.0	332.6	301.3
59°	34400.1	30744.2	11680.1	2494.8	790.8	586.8	580.6	577.4	360.9	301.3	276.2
60°	34033.0	30229.6	11243.9	2350.5	743.7	555.4	533.5	571.1	338.9	282.4	257.3
62.5°	32627.1	28095.6	9797.2	2105.7	681.0	470.7	426.8	483.3	301.3	244.8	222.8
65°	30590.4	24816.3	8294.1	2036.6	662.1	389.1	354.6	345.2	257.3	207.1	188.3
67.5°	26617.6	21000.3	6718.7	1989.6	668.4	326.4	310.7	260.5	213.4	172.6	160.0
70°	21311.0	16374.7	5501.1	1936.2	674.7	266.7	260.5	207.1	172.6	144.4	131.8
72.5°	12947.9	9706.2	4330.6	1682.0	655.9	213.4	232.2	156.9	125.5	103.6	97.3
75°	8005.4	6643.4	2686.2	1308.6	433.1	156.9	163.2	97.3	84.7	65.9	65.9
77.5°	4638.1	4195.7	960.3	470.7	191.4	94.1	72.2	50.2	47.1	28.2	28.2
80°	1923.7	1540.8	332.6	160.0	103.6	43.9	15.7	3.1	0.0	0.0	0.0
82.5°	561.7	499.0	91.0	72.2	31.4	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°	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6
2.5°	11165.4	11061.9	11014.8	11174.9	11027.4	11215.7	11071.3	11134.1	11319.2	11400.8	11611.1
5°	8356.8	8250.1	8199.9	8441.6	8429.0	8548.3	8535.7	8645.5	8739.7	8529.4	8746.0
7.5°	5821.2	5749.0	5868.3	6056.6	6257.4	6191.5	6191.5	6044.0	6094.2	6062.9	6053.4
10°	4427.9	4180.0	4117.2	4110.9	4186.3	4201.9	4117.2	3913.2	3988.6	4010.5	4142.3
12.5°	3483.3	3291.9	3000.0	2868.2	2833.7	2862.0	2582.7	2403.8	2488.5	2438.3	2567.0
15°	2497.9	2341.0	2168.4	2021.0	1980.2	1923.7	1619.3	1405.9	1380.8	1390.2	1412.2
17.5°	1782.5	1675.8	1675.8	1518.9	1434.1	1264.7	1110.9	1016.8	1007.3	1016.8	1032.4
20°	1314.9	1258.4	1252.1	1211.3	1117.2	1004.2	897.5	878.7	872.4	888.1	894.4
22.5°	1132.9	1073.2	1023.0	1019.9	932.0	837.9	787.7	762.6	765.7	772.0	787.7
25°	1013.6	950.9	897.5	866.1	803.4	737.5	690.4	677.8	677.8	687.2	690.4
27.5°	928.9	850.4	803.4	759.4	702.9	646.5	605.7	596.2	590.0	596.2	611.9
30°	869.3	790.8	731.2	665.3	621.3	568.0	533.5	520.9	517.8	520.9	533.5
32.5°	743.7	696.7	649.6	590.0	536.6	502.1	464.4	442.5	442.5	448.8	461.3
35°	561.7	536.6	533.5	517.8	473.9	436.2	392.3	370.3	370.3	382.9	389.1
37.5°	495.8	448.8	442.5	436.2	417.4	367.2	326.4	307.5	304.4	313.8	326.4
40°	451.9	398.5	370.3	364.0	367.2	310.7	266.7	247.9	247.9	251.0	263.6
42.5°	417.4	354.6	304.4	298.1	310.7	260.5	216.5	197.7	197.7	197.7	213.4
45°	389.1	317.0	257.3	225.9	244.8	213.4	175.7	156.9	150.6	156.9	163.2
47.5°	370.3	288.7	225.9	182.0	182.0	169.5	141.2	119.2	113.0	116.1	125.5
50°	354.6	263.6	191.4	147.5	131.8	134.9	106.7	91.0	84.7	84.7	94.1
52.5°	329.5	238.5	166.3	125.5	100.4	91.0	78.5	65.9	62.8	65.9	72.2
55°	298.1	216.5	144.4	103.6	78.5	62.8	56.5	47.1	43.9	47.1	56.5
57.5°	263.6	182.0	116.1	81.6	53.3	40.8	37.7	31.4	25.1	28.2	34.5
59°	241.6	163.2	100.4	65.9	40.8	28.2	28.2	22.0	15.7	18.8	28.2
60°	232.2	150.6	84.7	56.5	34.5	22.0	22.0	15.7	9.4	12.6	22.0
62.5°	197.7	125.5	65.9	34.5	15.7	3.1	9.4	3.1	0.0	3.1	9.4
65°	166.3	100.4	43.9	15.7	0.0	0.0	0.0	0.0	0.0	0.0	3.1
67.5°	138.1	75.3	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	109.8	50.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	75.3	28.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	47.1	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	18.8	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°	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6	13804.6
2.5°	11623.6	12072.4	12348.5	12869.4	13402.9	13814.0	14328.7	14790.0	14981.4	15081.8
5°	8965.6	9590.1	10120.5	10914.4	11651.9	12549.4	13459.4	14532.7	14943.7	15050.4
7.5°	6291.9	6929.0	7484.4	8403.9	9455.2	10657.1	12019.0	13381.0	13980.3	14149.8
10°	4544.0	5225.0	5902.8	6822.3	7804.5	9106.8	10525.3	12210.4	12900.8	13032.6
12.5°	2868.2	3599.4	4700.9	5836.9	6875.6	7923.8	9408.1	11240.8	12003.3	12245.0
15°	1663.2	2209.2	3040.8	4522.0	5843.2	7230.2	8849.5	10876.7	11730.3	11978.2
17.5°	1114.0	1302.3	1873.5	3006.3	4751.1	6590.1	8708.3	11174.9	12119.4	12436.4
20°	938.3	1023.0	1223.9	1832.7	3659.1	6018.9	8746.0	11984.5	13224.1	13619.5
22.5°	825.3	903.8	1032.4	1318.0	2554.4	5309.7	8924.8	13142.5	14742.9	15248.1
25°	728.0	806.5	919.5	1092.1	1716.6	4490.7	9317.1	14837.1	16754.4	17309.9
27.5°	646.5	718.6	815.9	963.4	1321.2	3577.5	9665.4	16487.7	18590.2	19042.1
30°	571.1	630.8	724.9	837.9	1098.3	2758.4	9841.2	17931.2	19927.1	20429.2
32.5°	495.8	552.3	643.3	734.3	903.8	2102.5	9718.8	18991.9	21226.3	21546.4
35°	423.6	483.3	558.6	643.3	781.4	1697.7	9106.8	20184.4	22572.5	22823.6
37.5°	364.0	414.2	492.7	558.6	706.1	1358.8	8366.2	21257.7	24082.0	24442.9
40°	307.5	357.7	436.2	495.8	649.6	1070.1	7697.8	22450.1	25673.0	26118.6
42.5°	251.0	310.7	379.7	477.0	558.6	815.9	6888.2	23416.7	26868.6	27427.2
45°	200.8	266.7	342.1	473.9	486.4	621.3	6106.8	24169.8	27926.2	28428.3
47.5°	160.0	225.9	329.5	442.5	398.5	492.7	5661.2	24957.5	28804.8	29206.5
50°	128.7	188.3	345.2	389.1	332.6	417.4	5648.6	25836.2	29259.9	29526.6
52.5°	103.6	153.8	291.8	298.1	282.4	367.2	5987.5	26824.7	29724.3	29944.0
55°	87.9	128.7	191.4	219.7	254.2	332.6	6241.7	28346.7	30832.1	31039.2
57.5°	69.0	109.8	147.5	175.7	225.9	304.4	6276.2	29520.3	32234.8	32369.8
59°	59.6	94.1	131.8	156.9	207.1	285.6	6135.0	29592.5	32325.8	32542.3
60°	50.2	84.7	116.1	147.5	191.4	269.9	5981.3	29068.4	31986.9	32228.5
62.5°	37.7	65.9	84.7	119.2	156.9	232.2	5253.2	27238.9	30690.9	30860.3
65°	25.1	47.1	62.8	87.9	122.4	200.8	4280.4	24866.5	28688.7	29068.4
67.5°	15.7	34.5	50.2	65.9	100.4	169.5	3050.3	21323.6	25886.4	26131.2
70°	9.4	22.0	37.7	53.3	78.5	134.9	1810.7	16854.9	21536.9	21587.2
72.5°	6.3	15.7	25.1	37.7	62.8	122.4	878.7	10986.6	15725.1	16324.5
75°	3.1	9.4	15.7	28.2	50.2	100.4	420.5	7340.1	11441.6	11614.2
77.5°	0.0	3.1	9.4	18.8	37.7	78.5	244.8	4820.2	7801.4	7980.3
80°	0.0	0.0	6.3	15.7	28.2	50.2	147.5	2843.1	4726.0	4813.9
82.5°	0.0	0.0	3.1	12.6	18.8	37.7	75.3	1249.0	3094.2	3125.6
85°	0.0	0.0	3.1	12.6	15.7	25.1	28.2	169.5	1374.5	1399.6
87.5°	0.0	0.0	3.1	15.7	15.7	15.7	15.7	9.4	116.1	144.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)