

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: P456054

Luminaire Tested: **GALN-SA7B-740-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32437 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

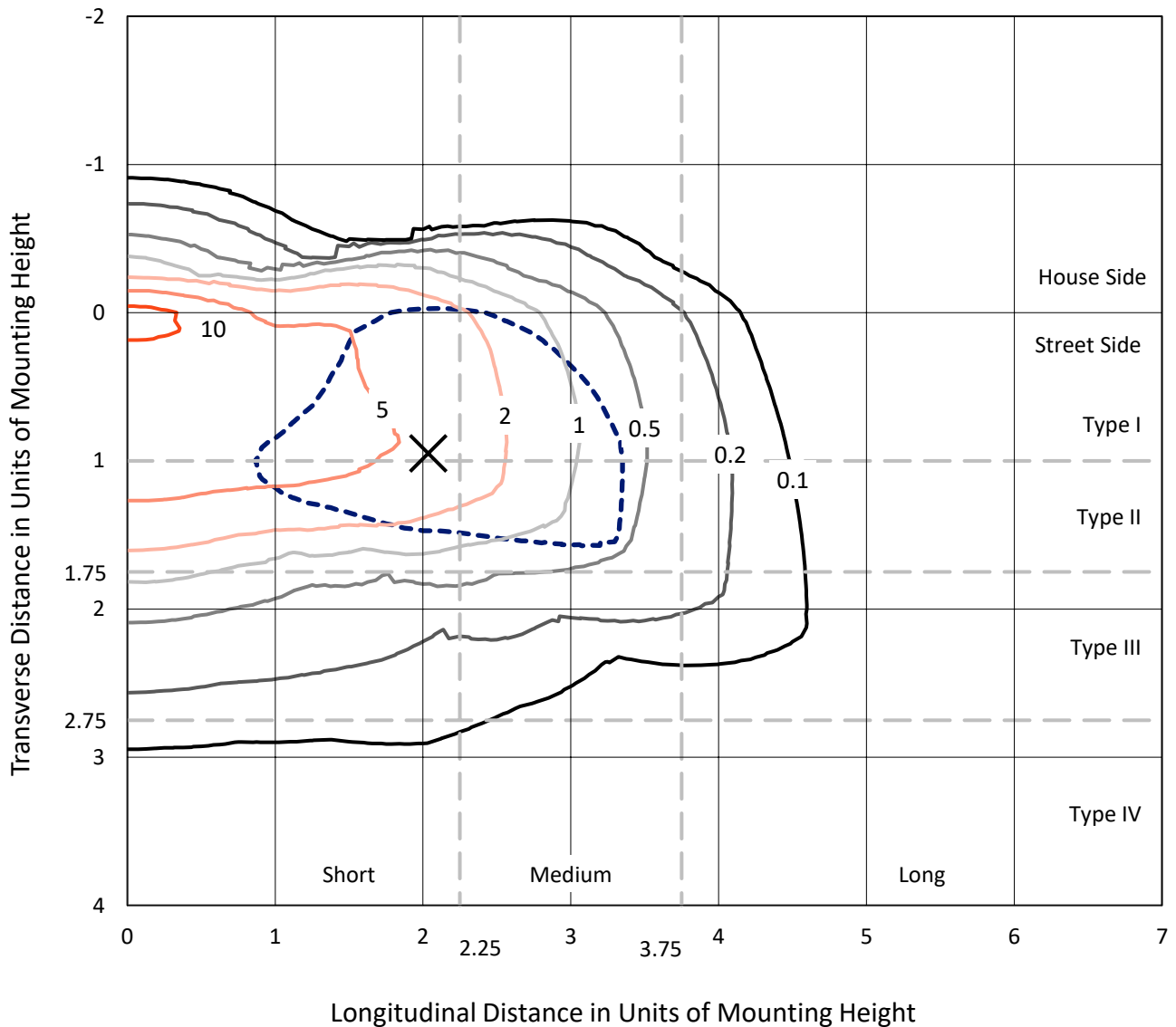
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456054
 CATALOG NUMBER: GALN-SA7B-740-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

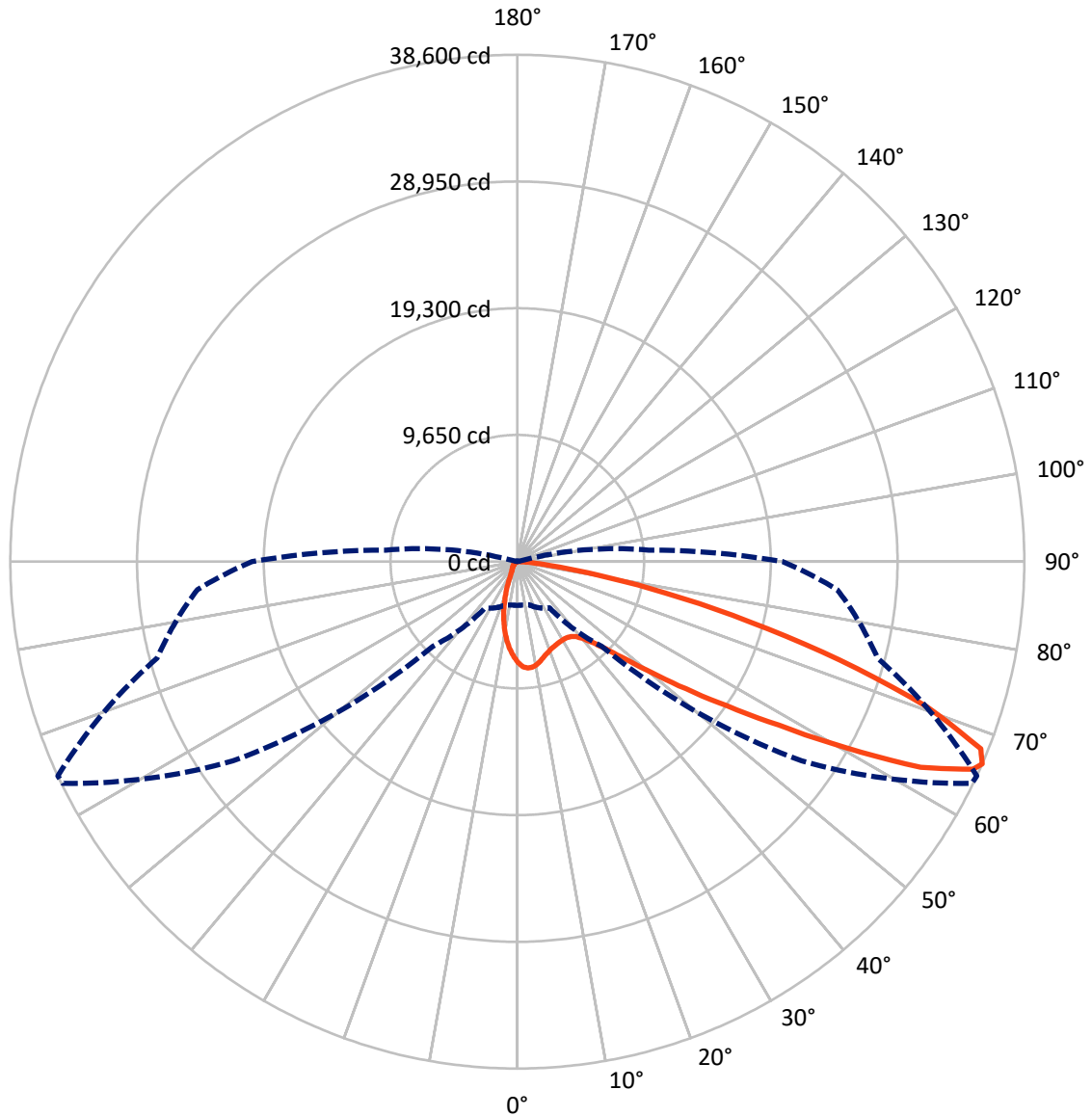
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

REPORT NUMBER: P456054
CATALOG NUMBER: GALN-SA7B-740-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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 CATALOG NUMBER: GALN-SA7B-740-U-SL2-HSS

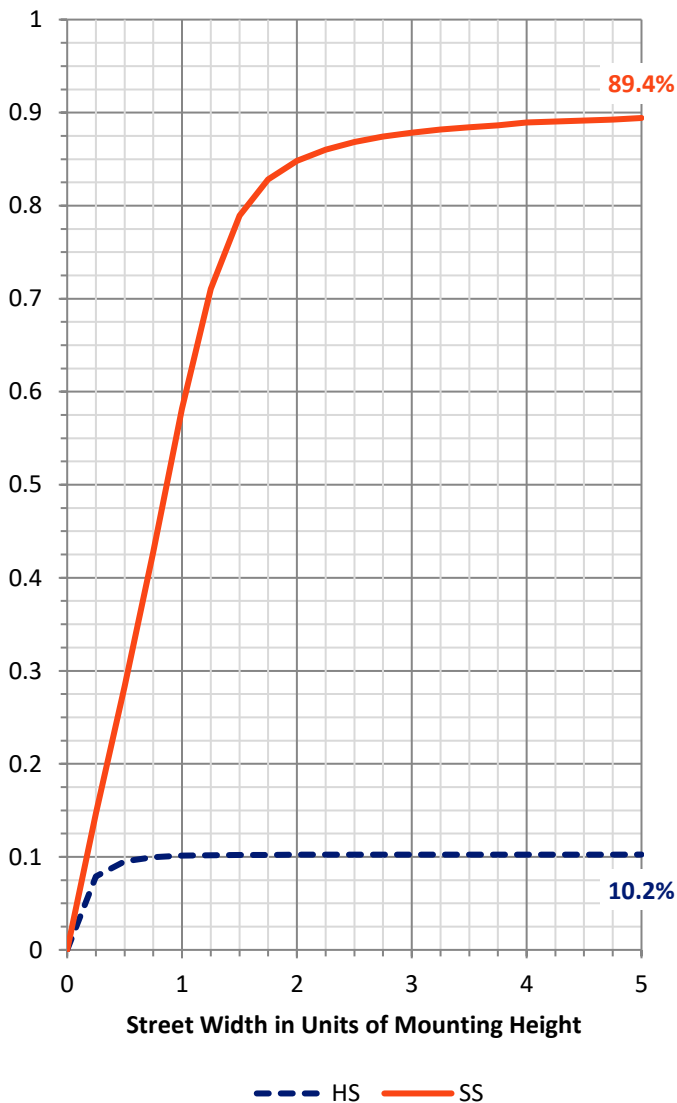
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3354.5	0.0	3354.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	29082.5	0.0	29082.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	32437.0	0.0	32437.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.1	1.9
10°-20°	1370.7	4.2
20°-30°	1963.5	6.1
30°-40°	2867.9	8.8
40°-50°	4808.9	14.8
50°-60°	8025.4	24.7
60°-70°	8518.7	26.3
70°-80°	3858.1	11.9
80°-90°	394.8	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°	32437.0	100.0
0°-180°	32437.0	100.0



REPORT NUMBER: P456054

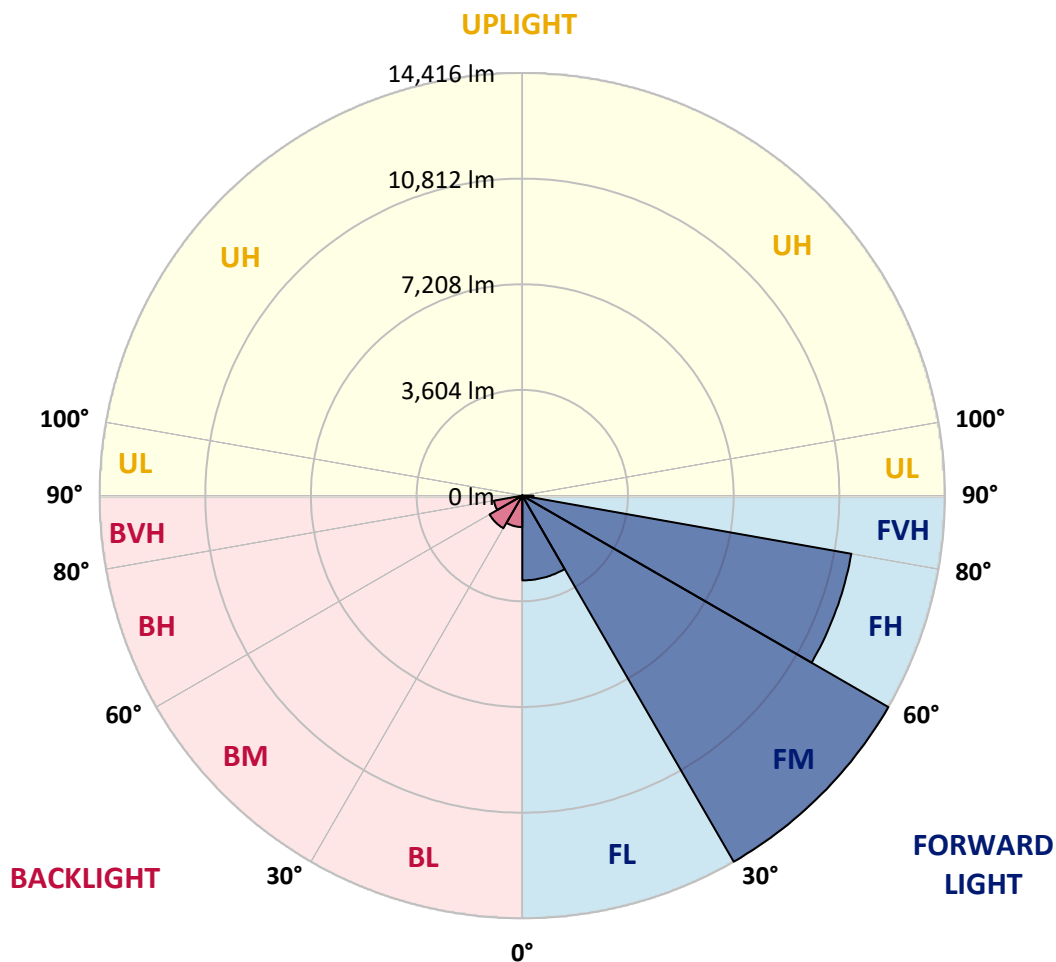
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2890.3	8.9			
FM (30°-60°)	14415.7	44.4			
FH (60°-80°)	11394.4	35.1			G4/12000
FVH (80°-90°)	382.2	1.2			G3/500
BL (0°-30°)	1073.0	3.3	B3/2500		
BM (30°-60°)	1286.5	4.0	B2/2500		
BH (60°-80°)	982.4	3.0	B2/1000		G2/1000
BVH (80°-90°)	12.6	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 II Short





REPORT NUMBER: P456054

CATALOG NUMBER: GALN-SA7B-740-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7692.0	7692.0	7692.0	7692.0	7692.0	7692.0	7692.0	7692.0	7692.0	7692.0	7692.0
2.5°	8106.1	8114.8	8125.8	8141.1	8152.1	8119.2	8073.2	8020.6	8009.7	7897.9	7762.1
5°	7672.3	7685.4	7781.8	7834.4	7952.7	8060.1	8128.0	8136.7	8132.4	8027.2	7810.3
7.5°	7054.5	7091.7	7185.9	7277.9	7499.2	7703.0	7944.0	8112.6	8123.6	8095.1	7825.6
10°	6552.8	6576.9	6625.1	6806.9	6990.9	7302.0	7639.4	7957.1	7983.4	8097.3	7812.5
12.5°	6160.6	6195.7	6254.8	6395.0	6616.3	6909.9	7293.3	7720.5	7775.3	8055.7	7775.3
15°	5886.8	5904.3	5963.4	6101.5	6316.2	6587.8	6975.6	7472.9	7521.1	8000.9	7768.7
17.5°	5757.5	5777.2	5818.8	5928.4	6105.8	6357.8	6736.8	7273.6	7334.9	7965.9	7792.8
20°	5792.6	5810.1	5812.3	5869.2	5989.7	6202.2	6561.5	7087.3	7166.2	7944.0	7832.2
22.5°	5991.9	5994.1	5967.8	5941.5	5983.2	6136.5	6454.2	6969.0	7050.1	7939.6	7878.2
25°	6289.9	6296.4	6252.6	6160.6	6077.4	6156.2	6430.1	6892.4	6964.7	7928.6	7906.7
27.5°	6701.8	6699.6	6686.4	6533.1	6296.4	6243.9	6449.8	6850.7	6912.1	7897.9	7917.7
30°	7277.9	7260.4	7231.9	7058.9	6697.4	6456.4	6533.1	6824.4	6881.4	7854.1	7889.2
32.5°	7845.4	7911.1	7906.7	7742.4	7291.1	6835.4	6706.1	6859.5	6901.1	7825.6	7847.6
35°	8507.0	8504.8	8673.5	8612.2	8084.2	7319.6	7001.9	6975.6	7008.5	7845.4	7827.8
37.5°	9120.4	9177.4	9440.3	9503.8	9021.8	8003.1	7420.3	7225.4	7236.3	7979.0	7876.0
40°	9885.0	9994.6	10386.7	10599.2	10174.2	9017.5	8038.2	7683.2	7685.4	8307.6	8057.9
42.5°	10870.9	11044.0	11409.8	11764.8	11536.9	10218.0	8964.9	8408.4	8404.0	8886.0	8474.1
45°	12069.3	12189.8	12606.0	13169.1	13024.5	11894.0	10314.4	9532.3	9475.3	9834.6	9212.4
47.5°	13103.4	13267.7	13690.5	14332.4	14989.7	13940.3	11926.9	11076.8	11039.6	11344.1	10478.7
50°	13554.7	13699.3	14144.0	15044.4	16637.2	16626.2	14328.0	13331.2	13267.7	13432.0	12437.3
52.5°	13059.5	13195.4	13644.5	14766.2	17412.7	19899.3	17807.1	16159.6	16082.9	15872.6	14777.2
55°	11363.8	11475.6	12139.4	13427.6	17114.8	22081.4	22600.6	19653.9	19356.0	18538.8	17425.9
57.5°	9048.1	8991.2	9403.0	10899.4	15366.5	22813.1	27521.2	24007.1	23474.8	20843.6	19667.1
60°	6270.2	6445.4	6611.9	7597.8	11554.4	21544.6	30581.8	29479.8	28778.8	23111.1	21814.1
62.5°	4609.5	4725.6	4835.2	5290.9	7264.8	17202.4	31123.0	35101.5	34479.3	25518.8	23862.5
65°	3645.5	3654.3	3698.1	4147.2	4787.0	11186.4	28522.4	38271.6	38111.7	27836.7	24692.9
66°	3321.3	3323.5	3391.4	3873.4	4296.2	9109.5	26439.0	38512.6	38600.3	28393.2	24449.7
67.5°	2902.9	2894.1	2992.7	3481.2	3912.8	6568.1	22710.2	37535.5	38054.7	28820.4	23575.5
70°	2250.0	2239.0	2359.5	2920.4	3603.9	4381.7	15094.8	32229.3	33066.2	27946.2	20858.9
72.5°	1498.5	1507.3	1713.2	2304.8	3439.6	3858.1	9081.0	24517.6	25700.6	23078.2	16409.3
75°	874.1	889.5	1123.9	1713.2	2986.1	3678.4	5139.7	17482.8	18238.7	15936.1	10222.4
77.5°	457.9	464.5	628.8	1130.5	2289.4	3415.5	3424.3	11168.9	11523.8	7744.6	4046.5
80°	243.2	236.6	337.4	681.3	1575.2	2999.2	2778.0	5913.1	6147.5	2300.4	1023.1
82.5°	92.0	100.8	179.6	446.9	931.1	2153.6	2392.4	2613.7	2532.6	506.1	429.4
85°	17.5	21.9	76.7	265.1	468.8	900.4	1763.6	1281.6	1187.4	190.6	247.6
87.5°	2.2	4.4	21.9	63.5	67.9	304.5	521.4	354.9	306.7	70.1	103.0
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°	7692.0	7692.0	7692.0	7692.0	7692.0	7692.0	7692.0	7692.0	7692.0	7692.0	7692.0
2.5°	7696.4	7637.2	7440.1	7245.1	7045.7	6866.1	6743.4	6544.0	6493.6	6421.3	6379.7
5°	7681.1	7543.0	7164.0	6750.0	6364.4	5948.1	5630.4	5323.7	5159.4	5076.2	5045.5
7.5°	7637.2	7418.2	6826.6	6178.1	5560.3	4938.1	4397.0	3985.1	3720.0	3538.2	3415.5
10°	7549.6	7247.3	6434.5	5542.8	4609.5	3787.9	3102.2	2580.8	2177.7	2050.6	2055.0
12.5°	7459.8	7056.7	5996.3	4837.4	3680.6	2644.3	1917.0	1505.1	1312.3	1248.8	1235.6
15°	7376.5	6874.8	5566.9	4153.8	2740.7	1713.2	1235.6	1091.0	1038.5	1027.5	1025.3
17.5°	7332.7	6706.1	5109.0	3371.7	1912.6	1163.3	990.3	950.8	935.5	924.5	920.1
20°	7295.5	6559.3	4670.9	2640.0	1307.9	953.0	887.3	850.0	823.8	812.8	806.2
22.5°	7269.2	6408.2	4217.4	2044.0	1001.2	845.7	786.5	738.3	701.1	687.9	679.2
25°	7229.7	6241.7	3759.5	1494.1	843.5	751.5	683.5	626.6	578.4	554.3	549.9
27.5°	7172.8	6053.3	3257.8	1106.4	753.6	668.2	585.0	514.8	466.6	440.4	442.5
30°	7080.8	5856.1	2756.1	878.5	681.3	582.8	492.9	425.0	379.0	359.3	357.1
32.5°	6971.2	5617.3	2296.0	753.6	615.6	506.1	411.9	352.7	317.7	302.3	300.1
35°	6868.3	5376.3	1827.2	677.0	547.7	436.0	346.2	295.8	269.5	256.3	258.5
37.5°	6811.3	5161.6	1424.0	615.6	492.9	374.6	298.0	254.1	230.0	219.1	216.9
40°	6848.5	4986.3	1132.7	560.9	431.6	322.1	256.3	219.1	195.0	179.6	179.6
42.5°	7023.8	4909.7	913.6	508.3	374.6	278.2	223.5	188.4	162.1	146.8	149.0
45°	7558.4	4990.7	764.6	460.1	322.1	241.0	192.8	155.5	131.4	120.5	118.3
47.5°	8445.7	5295.2	661.6	409.7	276.0	205.9	162.1	129.3	105.2	96.4	94.2
50°	9996.8	5924.0	585.0	359.3	234.4	175.3	133.6	103.0	83.3	74.5	74.5
52.5°	12130.6	7295.5	530.2	302.3	197.2	149.0	109.5	83.3	65.7	59.2	57.0
55°	14360.9	8741.4	501.7	254.1	164.3	122.7	87.6	65.7	50.4	43.8	41.6
57.5°	16505.7	9876.3	468.8	205.9	131.4	94.2	67.9	50.4	35.1	30.7	28.5
60°	18562.9	10794.2	398.7	164.3	103.0	67.9	50.4	35.1	24.1	19.7	19.7
62.5°	20403.2	11328.8	313.3	131.4	78.9	48.2	32.9	26.3	17.5	13.1	13.1
65°	20617.9	10634.3	236.6	100.8	57.0	30.7	19.7	19.7	13.1	8.8	8.8
66°	20186.3	10045.0	208.1	92.0	50.4	26.3	17.5	15.3	11.0	6.6	6.6
67.5°	19222.4	9039.4	179.6	78.9	41.6	19.7	13.1	13.1	8.8	4.4	4.4
70°	16608.7	7383.1	142.4	59.2	30.7	15.3	8.8	8.8	6.6	4.4	4.4
72.5°	12658.6	5512.1	116.1	43.8	21.9	11.0	6.6	6.6	6.6	4.4	4.4
75°	7635.0	2968.6	89.8	32.9	19.7	8.8	4.4	6.6	8.8	6.6	4.4
77.5°	2813.0	1010.0	70.1	26.3	15.3	8.8	4.4	4.4	8.8	6.6	6.6
80°	690.1	262.9	50.4	21.9	15.3	8.8	4.4	4.4	8.8	8.8	8.8
82.5°	319.9	111.7	35.1	19.7	15.3	8.8	4.4	4.4	6.6	8.8	8.8
85°	184.0	52.6	28.5	21.9	15.3	8.8	4.4	4.4	6.6	8.8	8.8
87.5°	74.5	26.3	26.3	21.9	17.5	11.0	4.4	4.4	4.4	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)