

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: P301837

Luminaire Tested: **GLNA-AF-07-LED-E1-SL4-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-07-LED-E1-SL4-7030-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30031.8 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 391
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: 25 FT

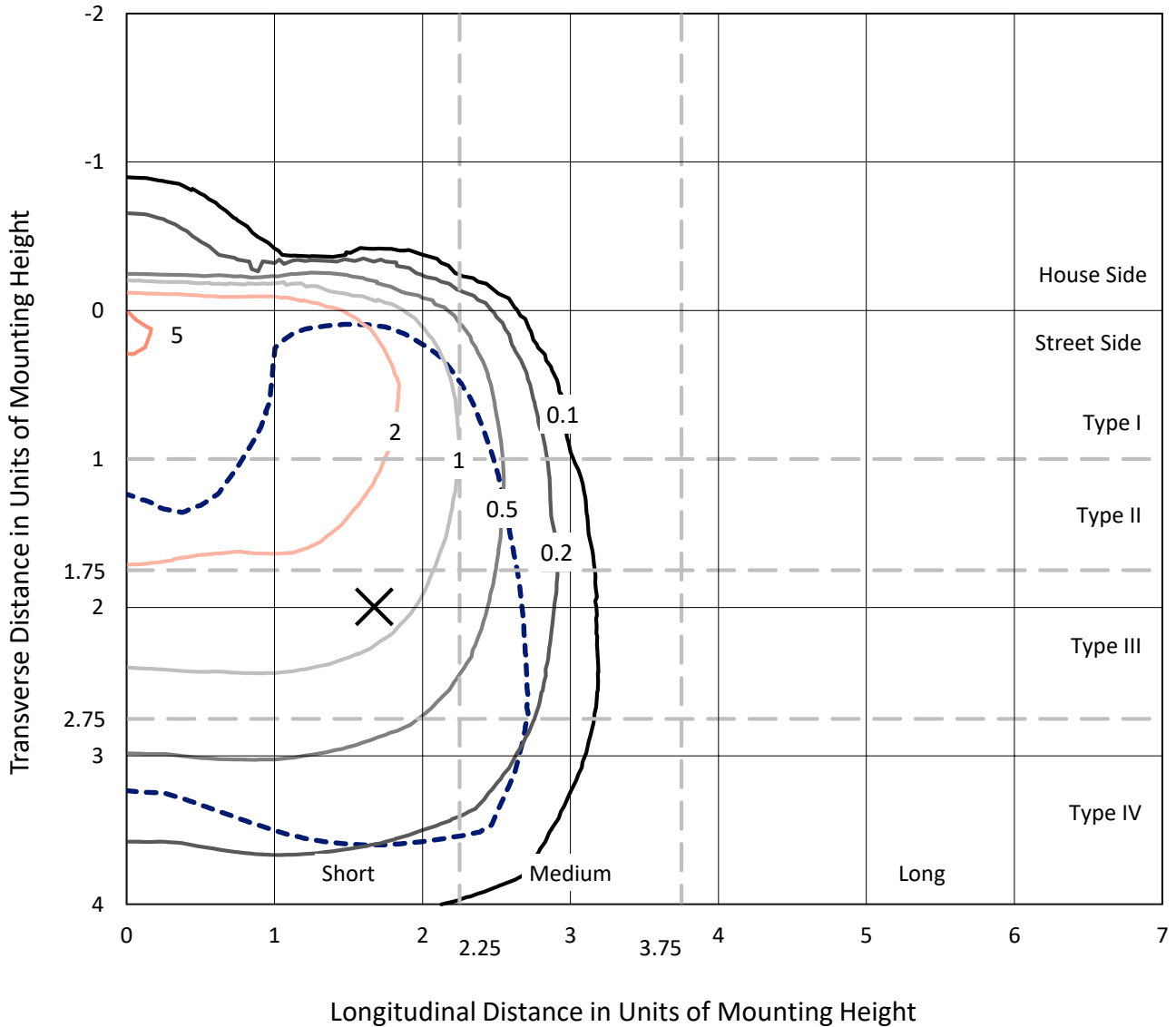


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Iso-Footcandle Lines of Horizontal Illumination

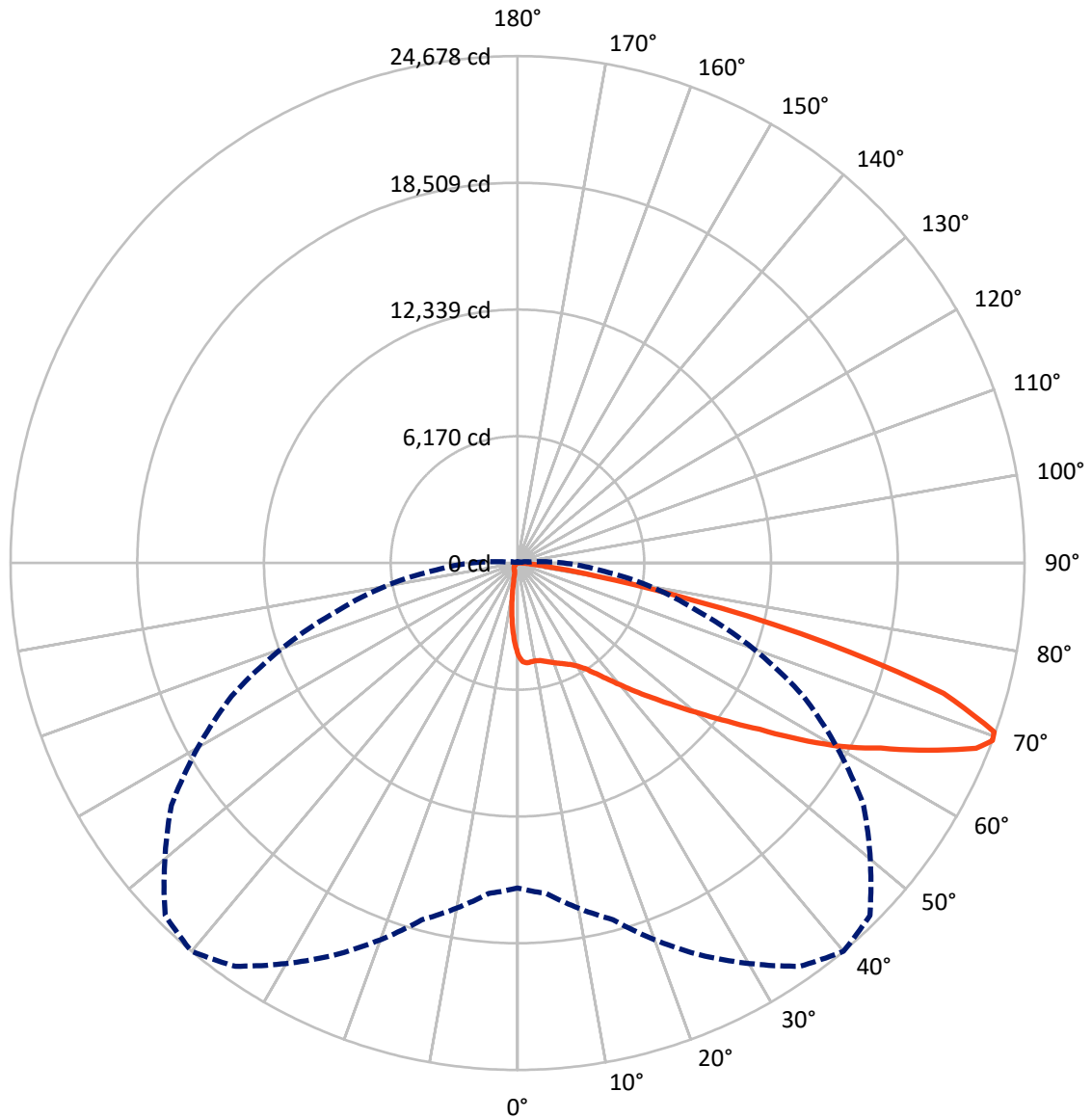
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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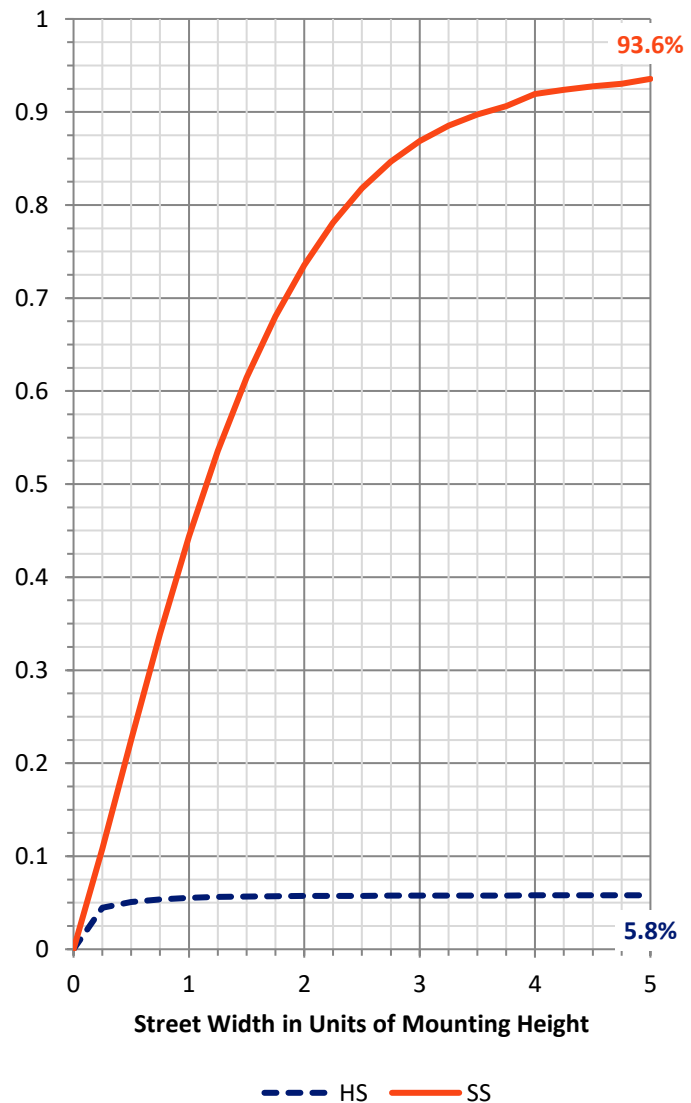
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1757.0	0.0	1757.0
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	28274.8	0.0	28274.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	30031.8	0.0	30031.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.8	1.2
10°-20°	894.6	3.0
20°-30°	1506.9	5.0
30°-40°	2466.8	8.2
40°-50°	4271.3	14.2
50°-60°	6727.6	22.4
60°-70°	8786.0	29.3
70°-80°	4525.2	15.1
80°-90°	489.5	1.6
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°	30031.8	100.0
0°-180°	30031.8	100.0

Coefficient of Utilization



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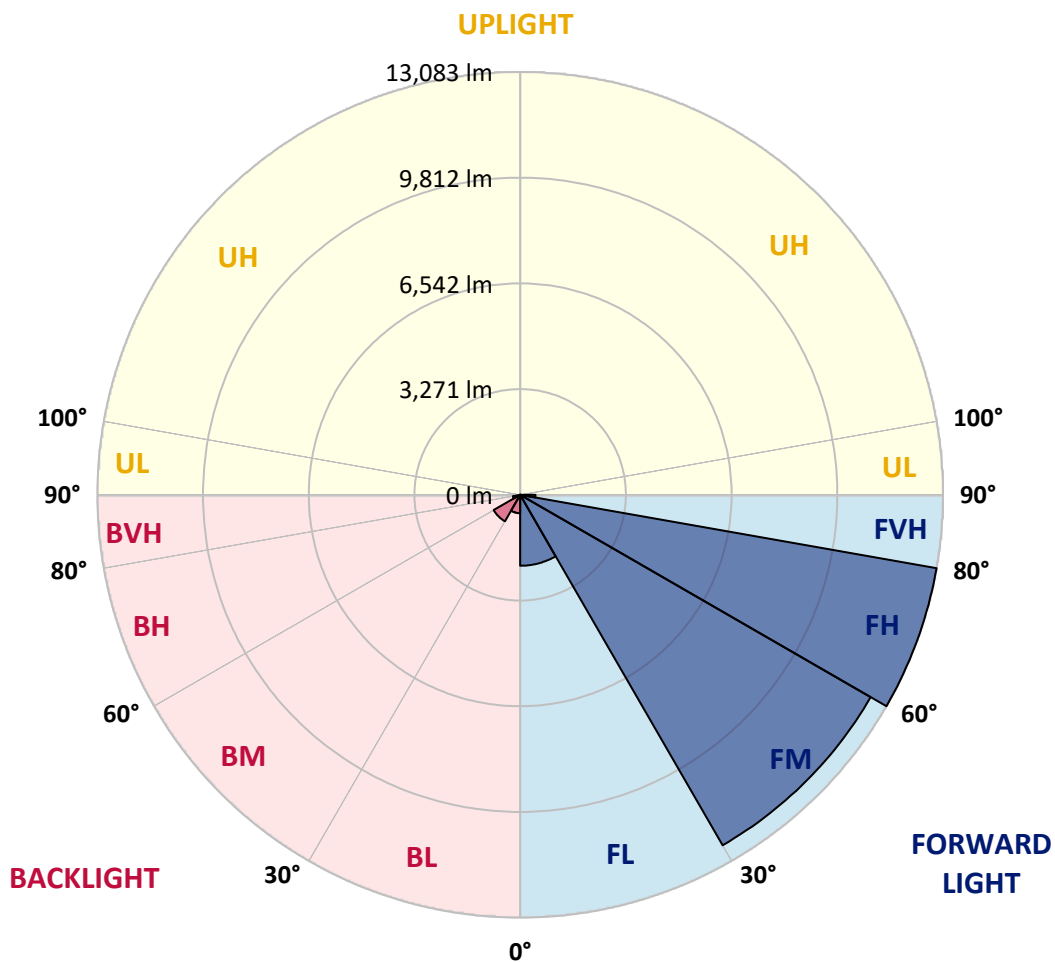
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2196.2	7.3			
FM	(30°-60°)	12521.4	41.7			
FH	(60°-80°)	13083.1	43.6			G5
FVH	(80°-90°)	474.1	1.6			G3/500
BL	(0°-30°)	569.2	1.9	B2/1000		
BM	(30°-60°)	944.4	3.1	B1/1000		
BH	(60°-80°)	228.2	0.8	B1/500		G1/500
BVH	(80°-90°)	15.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4486.9	4486.9	4486.9	4486.9	4486.9	4486.9	4486.9	4486.9	4486.9	4486.9	4486.9
2.5°	4926.7	4899.8	4883.8	4862.3	4835.5	4812.3	4803.3	4737.2	4674.6	4588.8	4490.5
5°	5017.8	5008.9	4980.3	4951.7	4919.5	4883.8	4864.1	4785.4	4696.1	4570.9	4399.3
7.5°	5026.8	5016.0	4980.3	4941.0	4896.3	4853.4	4819.4	4740.7	4658.5	4531.6	4322.4
10°	5012.5	4999.9	4973.1	4930.2	4874.8	4833.7	4799.7	4724.7	4654.9	4540.5	4308.1
12.5°	4996.4	4983.9	4971.3	4949.9	4901.6	4873.0	4844.4	4772.9	4710.4	4613.8	4360.0
15°	5012.5	5005.3	5019.6	5010.7	4983.9	4958.8	4930.2	4865.9	4808.7	4728.2	4454.7
17.5°	5080.4	5080.4	5125.1	5130.4	5105.4	5069.7	5028.6	4964.2	4915.9	4848.0	4567.3
20°	5239.5	5234.1	5291.3	5302.1	5241.3	5185.9	5125.1	5046.4	5008.9	4966.0	4678.2
22.5°	5513.0	5488.0	5521.9	5511.2	5391.4	5305.6	5230.6	5134.0	5114.4	5094.7	4801.5
25°	5868.7	5854.4	5877.7	5772.2	5561.3	5445.1	5355.7	5246.6	5246.6	5266.3	4941.0
27.5°	6385.3	6331.7	6253.1	6067.2	5750.7	5602.4	5505.8	5389.6	5420.0	5493.3	5125.1
30°	6914.5	6855.5	6674.9	6388.9	5981.3	5825.8	5713.2	5591.6	5663.2	5797.2	5371.8
32.5°	7436.5	7370.3	7114.7	6753.6	6312.1	6156.5	6047.5	5913.4	6033.2	6258.4	5732.9
35°	7942.4	7883.4	7588.4	7163.0	6751.8	6623.1	6523.0	6406.8	6560.5	6875.2	6242.3
37.5°	8510.8	8446.5	8087.2	7626.0	7286.3	7193.3	7120.1	7003.9	7272.0	7733.2	6952.0
40°	9209.8	9100.7	8616.3	8156.9	7904.8	7860.1	7810.1	7794.0	8210.5	8848.7	7897.7
42.5°	10010.6	9831.9	9170.4	8716.4	8584.1	8616.3	8603.8	8675.3	9385.0	10235.9	9048.9
45°	10811.5	10580.9	9787.2	9313.5	9331.3	9444.0	9513.7	9799.7	10856.2	11826.8	10287.7
47.5°	11490.8	11263.7	10378.9	9958.8	10173.3	10395.0	10584.4	11126.1	12368.5	13392.8	11251.2
50°	12071.7	11857.2	11006.3	10668.5	11151.1	11508.6	11816.1	12618.8	13995.2	14585.1	11926.9
52.5°	12547.2	12404.2	11657.0	11481.8	12268.4	12792.1	13242.6	14204.4	15436.0	15554.0	12452.5
55°	13010.2	12908.3	12356.0	12448.9	13580.5	14293.7	14864.0	15886.5	16676.6	16362.0	12956.6
57.5°	13542.9	13450.0	13153.2	13675.2	15305.5	16202.9	16825.0	17377.4	17768.9	17187.9	13432.1
60°	14086.4	14032.8	14039.9	15037.4	17286.2	18147.8	18491.1	18634.1	18841.4	17965.5	13458.9
62.5°	14604.8	14706.7	15053.5	16553.3	19182.9	19844.3	20017.7	20158.9	19915.8	18088.8	12434.6
65°	15482.5	15648.8	16476.4	18582.2	21269.0	21976.9	22155.7	21671.2	20085.6	16494.3	10114.3
67.5°	15911.5	16215.4	17692.0	20473.5	23292.6	24079.1	24013.0	21769.5	18024.5	12577.6	6490.8
69°	15822.2	16145.7	17972.6	21052.7	23964.7	24678.0	24257.9	20566.5	15355.6	9111.5	3984.6
70°	15468.2	15795.3	17827.9	21031.3	24050.5	24615.4	23803.8	19081.0	12983.4	6662.4	2491.9
72.5°	12917.3	13199.7	15827.5	19009.5	22155.7	21696.2	19914.0	13219.4	6326.4	1814.4	561.3
75°	7951.3	8108.6	11356.7	14320.6	16733.8	15554.0	13267.7	6576.6	1885.9	513.0	311.0
77.5°	4200.9	4272.4	6217.3	8441.1	10607.7	8777.2	6800.1	2565.2	868.8	321.8	225.2
80°	2483.0	2536.6	3348.2	3859.5	4590.6	3834.4	2719.0	1574.9	622.1	202.0	200.2
82.5°	1421.2	1455.1	2427.6	2145.1	1809.1	1544.5	1353.2	1492.7	373.6	135.9	207.4
85°	522.0	529.1	1365.7	1632.1	1076.1	640.0	672.1	1237.0	100.1	85.8	162.7
87.5°	243.1	237.8	702.5	999.3	629.2	405.8	523.8	271.7	39.3	55.4	44.7
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°	4486.9	4486.9	4486.9	4486.9	4486.9	4486.9	4486.9	4486.9	4486.9	4486.9	4486.9
2.5°	4433.3	4367.1	4247.4	4124.0	3998.9	3902.4	3807.6	3732.5	3707.5	3661.0	3664.6
5°	4297.4	4175.9	3925.6	3671.8	3407.2	3189.1	2983.5	2817.3	2736.8	2654.6	2654.6
7.5°	4179.4	4002.5	3611.0	3198.0	2770.8	2411.5	2087.9	1844.8	1710.7	1603.5	1601.7
10°	4134.7	3895.2	3348.2	2756.5	2161.2	1671.4	1287.1	1040.4	913.5	831.2	827.7
12.5°	4154.4	3857.7	3146.2	2348.9	1601.7	1074.4	745.4	586.3	532.7	507.7	507.7
15°	4211.6	3846.9	2944.2	1950.3	1131.6	672.1	495.2	452.3	448.7	448.7	448.7
17.5°	4281.3	3850.5	2736.8	1562.4	770.5	480.9	427.2	421.9	425.5	425.5	425.5
20°	4352.8	3852.3	2513.4	1203.1	543.4	418.3	402.2	400.4	404.0	404.0	405.8
22.5°	4440.4	3861.2	2289.9	899.2	448.7	395.1	382.5	382.5	384.3	384.3	382.5
25°	4540.5	3879.1	2057.5	666.8	409.4	379.0	368.2	366.5	368.2	366.5	364.7
27.5°	4665.7	3904.1	1798.3	522.0	391.5	362.9	353.9	353.9	352.2	350.4	348.6
30°	4823.0	3932.7	1507.0	443.3	373.6	348.6	339.6	337.9	336.1	332.5	332.5
32.5°	5062.5	3995.3	1219.2	402.2	353.9	328.9	321.8	321.8	318.2	314.6	312.8
35°	5430.8	4118.7	961.7	377.2	332.5	307.5	298.5	298.5	295.0	293.2	291.4
37.5°	5940.2	4306.4	747.2	353.9	311.0	284.2	275.3	273.5	269.9	266.4	264.6
40°	6617.7	4538.7	588.1	332.5	289.6	261.0	253.8	250.3	243.1	237.8	237.8
42.5°	7468.6	4803.3	477.3	309.3	264.6	239.5	234.2	228.8	216.3	210.9	209.2
45°	8358.9	5041.1	404.0	282.4	239.5	218.1	214.5	205.6	189.5	184.1	184.1
47.5°	9000.6	5096.5	355.7	257.4	216.3	194.8	193.1	177.0	162.7	159.1	157.3
50°	9401.0	4987.4	316.4	232.4	194.8	173.4	168.0	148.4	139.4	135.9	134.1
52.5°	9671.0	4792.6	284.2	210.9	175.2	153.7	141.2	126.9	119.8	116.2	116.2
55°	9887.3	4517.3	252.1	191.3	159.1	137.6	119.8	109.0	101.9	98.3	98.3
57.5°	9948.1	4143.7	219.9	175.2	143.0	121.6	101.9	94.7	85.8	84.0	84.0
60°	9506.5	3469.8	194.8	155.5	128.7	105.5	89.4	80.4	71.5	69.7	67.9
62.5°	8342.8	2685.0	171.6	137.6	112.6	91.2	76.9	66.1	59.0	59.0	59.0
65°	6363.9	1800.1	150.2	119.8	98.3	76.9	66.1	53.6	50.1	50.1	51.8
67.5°	3809.4	979.6	128.7	101.9	84.0	64.4	55.4	46.5	44.7	46.5	46.5
69°	2232.7	575.6	116.2	91.2	73.3	57.2	48.3	41.1	44.7	46.5	46.5
70°	1378.2	387.9	107.3	82.2	66.1	51.8	44.7	39.3	42.9	44.7	44.7
72.5°	384.3	200.2	85.8	64.4	53.6	42.9	35.8	35.8	41.1	42.9	42.9
75°	250.3	148.4	66.1	48.3	41.1	34.0	30.4	34.0	39.3	41.1	41.1
77.5°	207.4	121.6	53.6	39.3	34.0	32.2	28.6	30.4	35.8	37.5	37.5
80°	189.5	85.8	42.9	35.8	30.4	28.6	26.8	25.0	32.2	34.0	34.0
82.5°	180.5	67.9	37.5	32.2	28.6	25.0	23.2	25.0	28.6	30.4	32.2
85°	112.6	44.7	34.0	30.4	25.0	23.2	23.2	23.2	26.8	28.6	28.6
87.5°	41.1	35.8	30.4	25.0	21.5	21.5	21.5	21.5	23.2	26.8	26.8
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)