

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: P191123

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL3-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21005.3 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 210
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

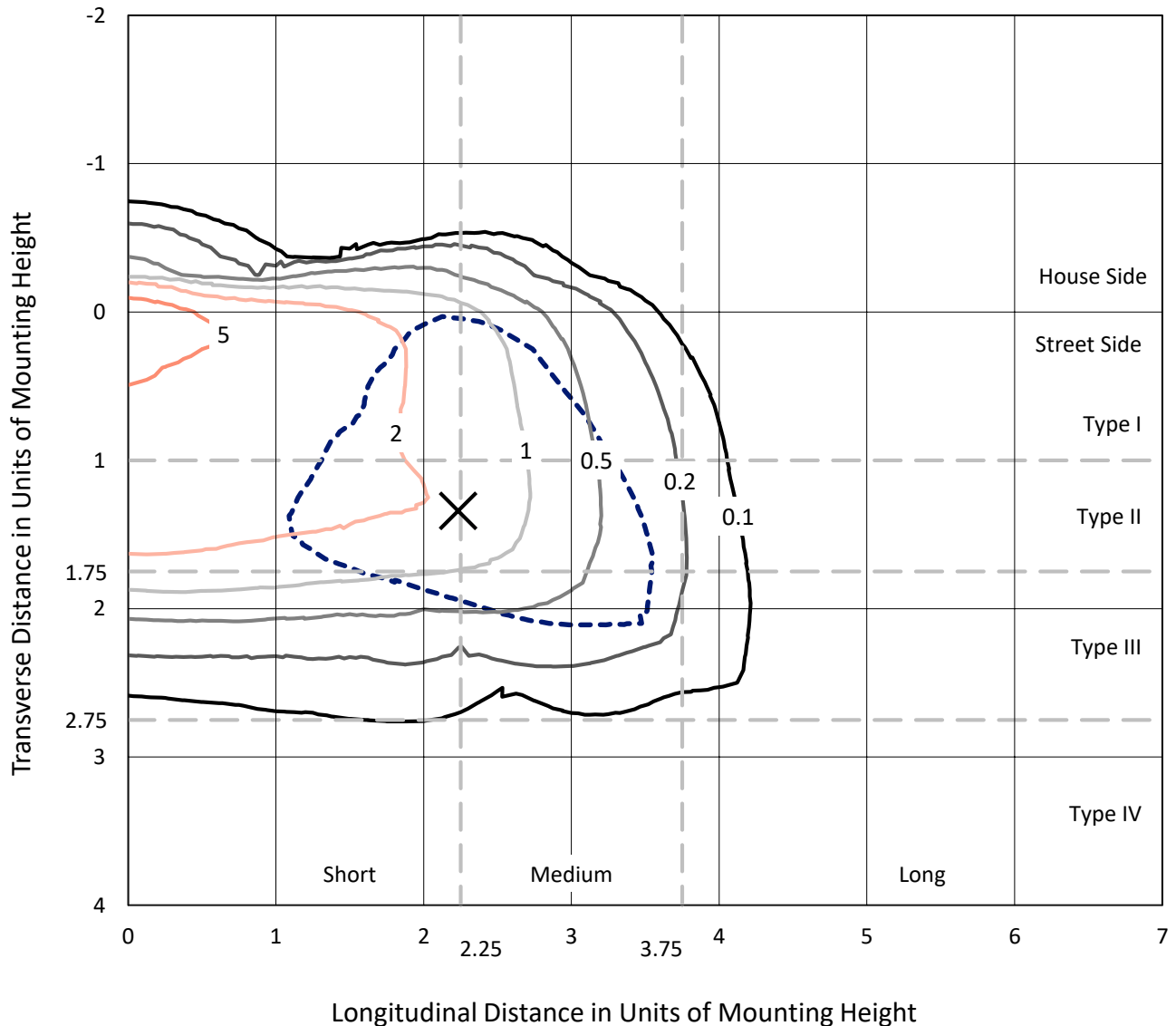


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Iso-Footcandle Lines of Horizontal Illumination

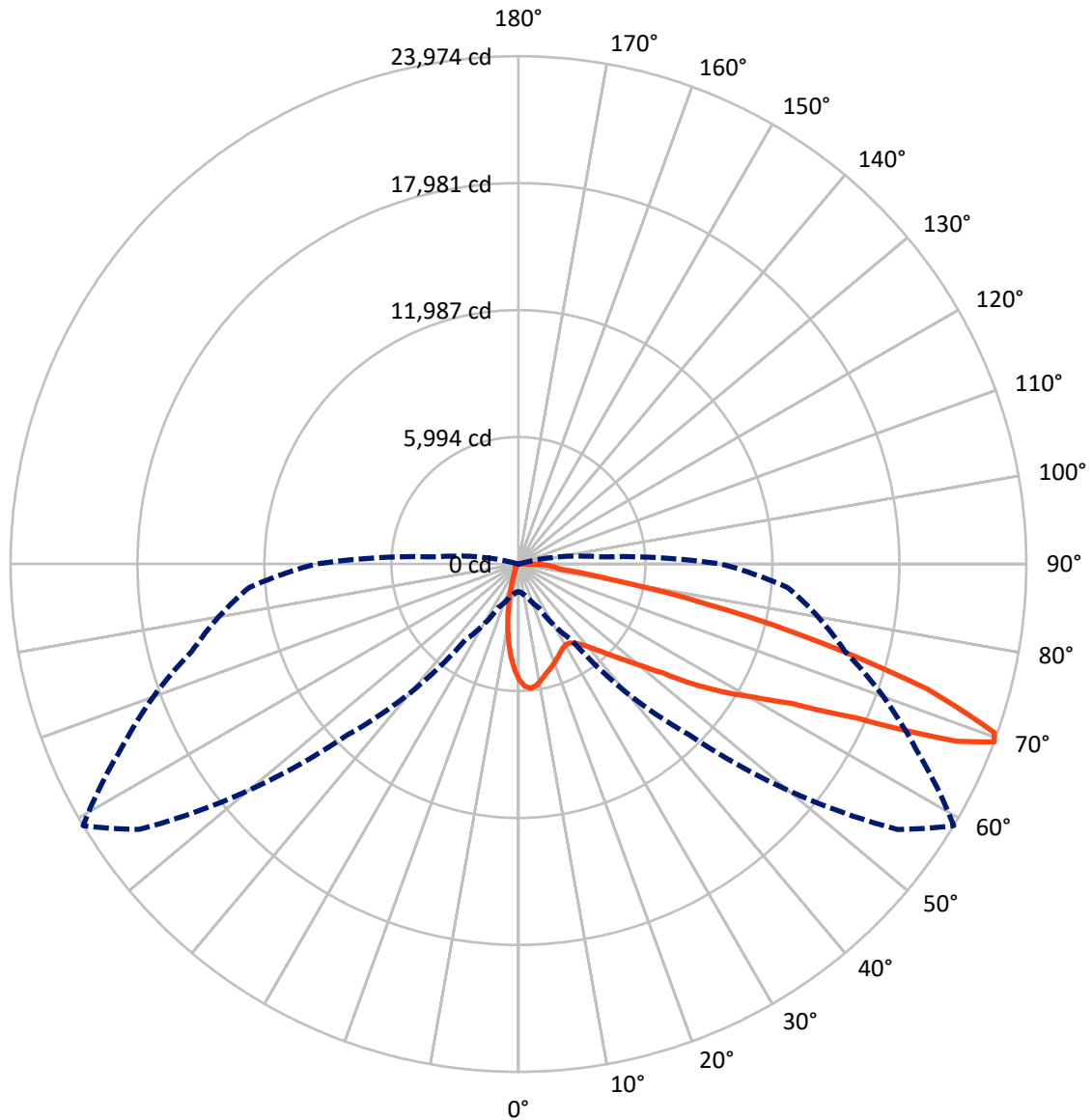
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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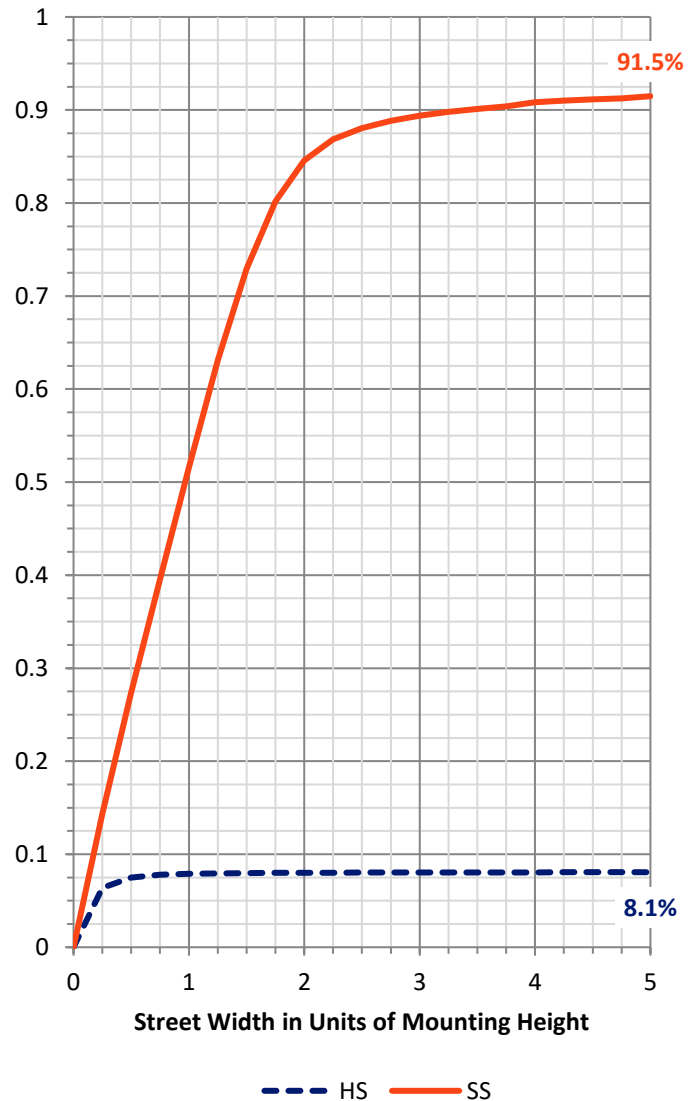
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1710.6	0.0	1710.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	19294.7	0.0	19294.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	21005.3	0.0	21005.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.8	2.1
10°-20°	917.0	4.4
20°-30°	1233.9	5.9
30°-40°	1791.6	8.5
40°-50°	2983.1	14.2
50°-60°	4653.6	22.2
60°-70°	5758.5	27.4
70°-80°	2918.3	13.9
80°-90°	305.4	1.5
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°	21005.3	100.0
0°-180°	21005.3	100.0



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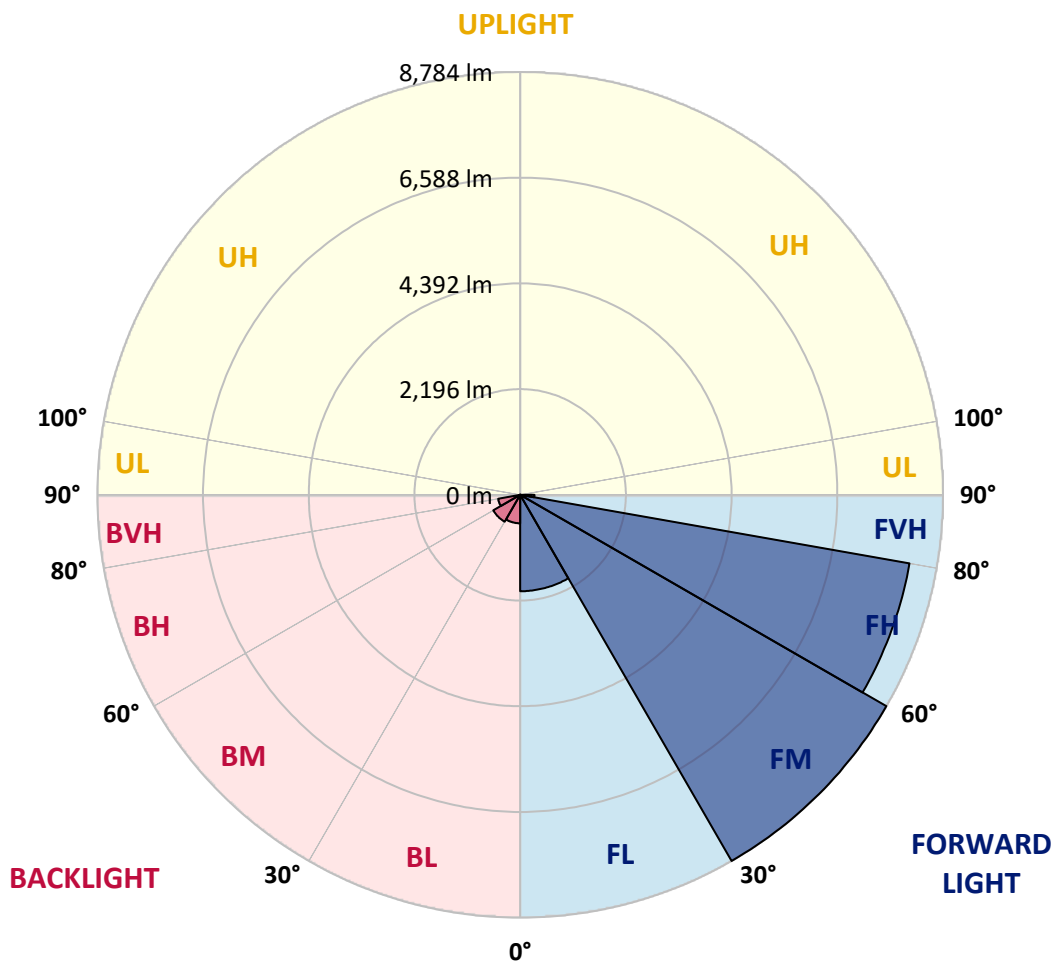
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2002.6	9.5			
FM	(30°-60°)	8783.8	41.8			
FH	(60°-80°)	8212.3	39.1			G4/12000
FVH	(80°-90°)	296.0	1.4			G3/500
BL	(0°-30°)	592.1	2.8	B2/1000		
BM	(30°-60°)	644.6	3.1	B1/1000		
BH	(60°-80°)	464.6	2.2	B1/500		G1/500
BVH	(80°-90°)	9.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5467.4	5467.4	5467.4	5467.4	5467.4	5467.4	5467.4	5467.4	5467.4	5467.4	5467.4
2.5°	5992.3	5990.0	5963.9	5952.0	5930.7	5885.4	5815.4	5778.5	5719.2	5615.9	5476.9
5°	5937.7	5966.3	5981.7	5982.9	5998.3	5981.7	5918.7	5887.9	5805.9	5639.6	5390.1
7.5°	5567.2	5577.8	5621.8	5659.8	5733.4	5803.5	5826.1	5813.0	5764.3	5586.1	5254.8
10°	5170.4	5181.1	5233.4	5283.2	5383.1	5491.1	5605.2	5628.9	5649.1	5510.1	5124.1
12.5°	4828.3	4839.1	4892.5	4957.8	5074.2	5207.2	5384.2	5423.5	5512.5	5437.7	5019.6
15°	4533.8	4538.5	4590.8	4671.6	4810.5	4981.6	5182.3	5245.3	5381.8	5386.7	4928.2
17.5°	4283.2	4295.1	4327.1	4404.3	4556.3	4767.8	5001.8	5092.0	5252.4	5343.9	4839.1
20°	4130.0	4141.8	4140.6	4183.4	4320.0	4545.7	4821.3	4929.3	5124.1	5299.9	4759.5
22.5°	4100.2	4100.2	4069.4	4063.5	4144.2	4333.0	4633.6	4765.4	5008.9	5280.9	4703.6
25°	4206.0	4201.2	4124.0	4061.0	4064.6	4177.4	4451.8	4608.6	4911.5	5294.0	4674.0
27.5°	4429.3	4423.3	4326.0	4206.0	4109.7	4108.6	4314.1	4482.7	4834.3	5355.8	4685.8
30°	4738.1	4735.8	4630.0	4479.1	4304.6	4144.2	4266.5	4419.8	4784.4	5467.4	4713.1
32.5°	5075.4	5071.9	4992.3	4833.1	4612.2	4304.6	4316.4	4444.7	4798.7	5615.9	4779.6
35°	5432.9	5427.0	5392.6	5253.6	5010.1	4600.3	4480.3	4580.1	4888.9	5838.0	4910.3
37.5°	5820.2	5826.1	5851.1	5718.0	5462.7	5014.8	4754.7	4822.4	5070.7	6139.6	5122.9
40°	6391.5	6390.3	6398.6	6224.0	5978.1	5522.0	5138.4	5159.8	5374.7	6539.9	5446.0
42.5°	7428.5	7355.9	7136.2	6779.9	6532.9	6101.7	5621.8	5599.2	5746.5	7035.2	5898.5
45°	8821.7	8667.3	8097.2	7414.1	7098.3	6755.0	6216.9	6144.5	6238.3	7630.3	6456.8
47.5°	10020.2	9859.8	9053.3	8074.6	7698.0	7375.0	6914.1	6783.5	6814.3	8296.6	7164.7
50°	10427.6	10349.2	9644.8	8649.5	8278.8	8155.4	7723.0	7563.8	7519.9	9067.5	7985.5
52.5°	10286.3	10280.2	9811.1	9022.4	8811.0	8963.0	8740.9	8556.8	8395.3	9880.0	8820.5
55°	10059.4	10089.1	9878.8	9349.1	9341.9	9700.6	10133.0	9979.8	9511.8	10762.6	9540.3
57.5°	9433.4	9560.5	9840.8	9966.7	10258.9	10625.9	11292.3	11382.6	10829.1	11438.4	10137.7
60°	7654.1	7933.2	8850.2	10055.8	11440.8	12355.4	12691.5	12768.7	11909.9	12000.2	10944.2
62.5°	5432.9	5718.0	6880.9	8920.2	11458.6	14627.6	14776.1	14473.2	13100.1	12832.8	12335.2
65°	2883.9	3103.7	4054.0	6439.0	9934.7	15155.0	18421.4	17518.6	15200.1	14470.8	14132.3
67.5°	1475.2	1541.8	1919.5	3151.2	6829.7	13461.2	21689.0	22324.5	18819.3	16095.7	14045.6
69°	1305.4	1344.6	1595.2	2278.2	4373.4	11401.6	21848.2	23974.3	20713.8	15960.3	12764.0
70°	1263.9	1298.2	1526.3	2062.0	3418.5	9561.7	21238.8	23829.3	21198.4	15444.8	11806.6
72.5°	1072.6	1102.2	1358.8	1822.1	2778.2	4746.4	17252.6	20192.3	19022.4	12866.1	8546.1
75°	717.4	814.8	1304.2	1708.0	2584.6	2696.3	11374.3	14592.0	13555.0	8678.0	4451.8
77.5°	172.3	185.3	368.3	1358.8	2363.7	2373.2	5849.8	9071.1	7398.7	3093.0	1052.4
80°	92.7	89.1	103.3	269.6	2201.0	2227.1	2633.3	4403.1	2641.7	513.1	346.9
82.5°	65.4	61.8	66.5	112.8	692.4	2028.7	1905.2	1993.1	1095.2	197.1	155.6
85°	23.7	22.6	36.8	102.2	217.4	1166.4	1957.5	1643.9	887.3	90.2	114.1
87.5°	8.3	7.2	14.2	55.9	66.5	496.5	1208.0	1242.4	349.2	54.6	53.5
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°	5467.4	5467.4	5467.4	5467.4	5467.4	5467.4	5467.4	5467.4	5467.4	5467.4	5467.4
2.5°	5418.7	5345.0	5209.6	5070.7	4942.4	4787.9	4710.8	4634.8	4602.7	4590.8	4534.9
5°	5261.9	5137.2	4849.7	4561.1	4295.1	4012.3	3825.8	3676.2	3588.3	3545.5	3477.8
7.5°	5061.2	4856.9	4421.0	3975.5	3561.0	3152.4	2849.5	2616.7	2456.3	2379.2	2309.1
10°	4866.4	4594.4	3974.4	3367.3	2804.3	2262.8	1844.6	1541.8	1348.1	1259.0	1202.1
12.5°	4691.8	4338.9	3543.2	2774.7	2067.9	1433.7	1008.4	767.3	647.3	605.8	585.5
15°	4536.2	4103.8	3135.8	2211.6	1400.4	819.6	551.2	469.1	450.2	450.2	447.7
17.5°	4388.9	3873.4	2742.6	1683.1	878.9	501.2	419.3	408.6	408.6	413.4	413.4
20°	4247.5	3653.7	2362.5	1208.0	553.5	397.9	378.9	376.5	378.9	384.8	384.8
22.5°	4126.4	3454.1	2007.3	829.1	411.0	358.7	349.2	345.7	346.9	350.4	352.8
25°	4036.1	3285.4	1672.4	561.8	353.9	326.6	316.0	310.1	305.2	305.2	307.6
27.5°	3979.1	3142.9	1348.1	408.6	318.3	297.0	280.3	270.8	260.1	254.2	256.6
30°	3937.5	3007.5	1044.0	333.8	285.1	263.7	242.3	226.9	211.4	204.3	206.6
32.5°	3922.1	2898.2	780.4	294.6	255.3	231.6	205.5	185.3	168.7	162.8	163.9
35°	3963.6	2811.5	571.3	266.1	231.6	201.9	172.3	149.7	136.6	133.0	134.2
37.5°	4072.9	2765.1	427.6	242.3	210.2	177.0	143.7	122.3	114.1	114.1	115.2
40°	4279.6	2764.0	343.3	225.7	191.2	153.2	118.8	103.3	98.6	101.0	102.2
42.5°	4581.3	2826.9	299.3	210.2	174.6	130.6	98.6	87.9	86.7	89.1	90.2
45°	4993.4	2942.1	275.6	197.1	156.8	109.3	83.2	76.0	76.0	79.6	80.8
47.5°	5498.3	3110.8	255.3	184.1	139.0	91.5	71.3	66.5	67.7	71.3	72.4
50°	6106.4	3323.5	235.2	169.8	125.9	76.0	61.8	58.2	59.4	64.1	65.4
52.5°	6798.9	3609.7	218.5	156.8	109.3	62.9	52.3	49.9	52.3	57.0	58.2
55°	7392.8	3866.2	198.4	146.1	87.9	52.3	42.8	42.8	45.1	51.0	52.3
57.5°	7964.1	4134.7	180.6	125.9	68.8	41.5	35.6	36.8	40.4	46.3	47.5
60°	8802.7	4589.6	159.2	105.7	52.3	33.2	29.7	30.9	35.6	41.5	42.8
62.5°	10226.8	5282.1	137.8	87.9	40.4	26.1	23.7	26.1	32.1	39.2	40.4
65°	11512.0	5563.6	112.8	73.7	30.9	20.2	20.2	23.7	30.9	38.1	39.2
67.5°	10795.8	4683.5	87.9	58.2	23.7	15.4	16.7	22.6	29.7	38.1	39.2
69°	9547.4	3829.4	74.9	46.3	20.2	14.2	15.4	22.6	29.7	36.8	38.1
70°	8574.7	3233.1	66.5	39.2	17.8	14.2	15.4	21.4	29.7	36.8	38.1
72.5°	5742.9	1746.1	53.5	28.5	16.7	13.1	13.1	21.4	28.5	35.6	36.8
75°	2468.2	482.2	42.8	20.2	14.2	11.9	11.9	20.2	27.3	34.5	36.8
77.5°	451.3	122.3	34.5	17.8	14.2	11.9	10.7	19.0	26.1	33.2	34.5
80°	179.3	60.6	27.3	15.4	13.1	10.7	9.5	17.8	25.0	32.1	33.2
82.5°	108.1	34.5	22.6	14.2	13.1	9.5	8.3	15.4	23.7	30.9	32.1
85°	87.9	23.7	17.8	14.2	11.9	9.5	7.2	14.2	21.4	29.7	30.9
87.5°	42.8	16.7	16.7	13.1	11.9	9.5	7.2	13.1	20.2	28.5	29.7
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)