

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: P193603

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA 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: 22058 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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

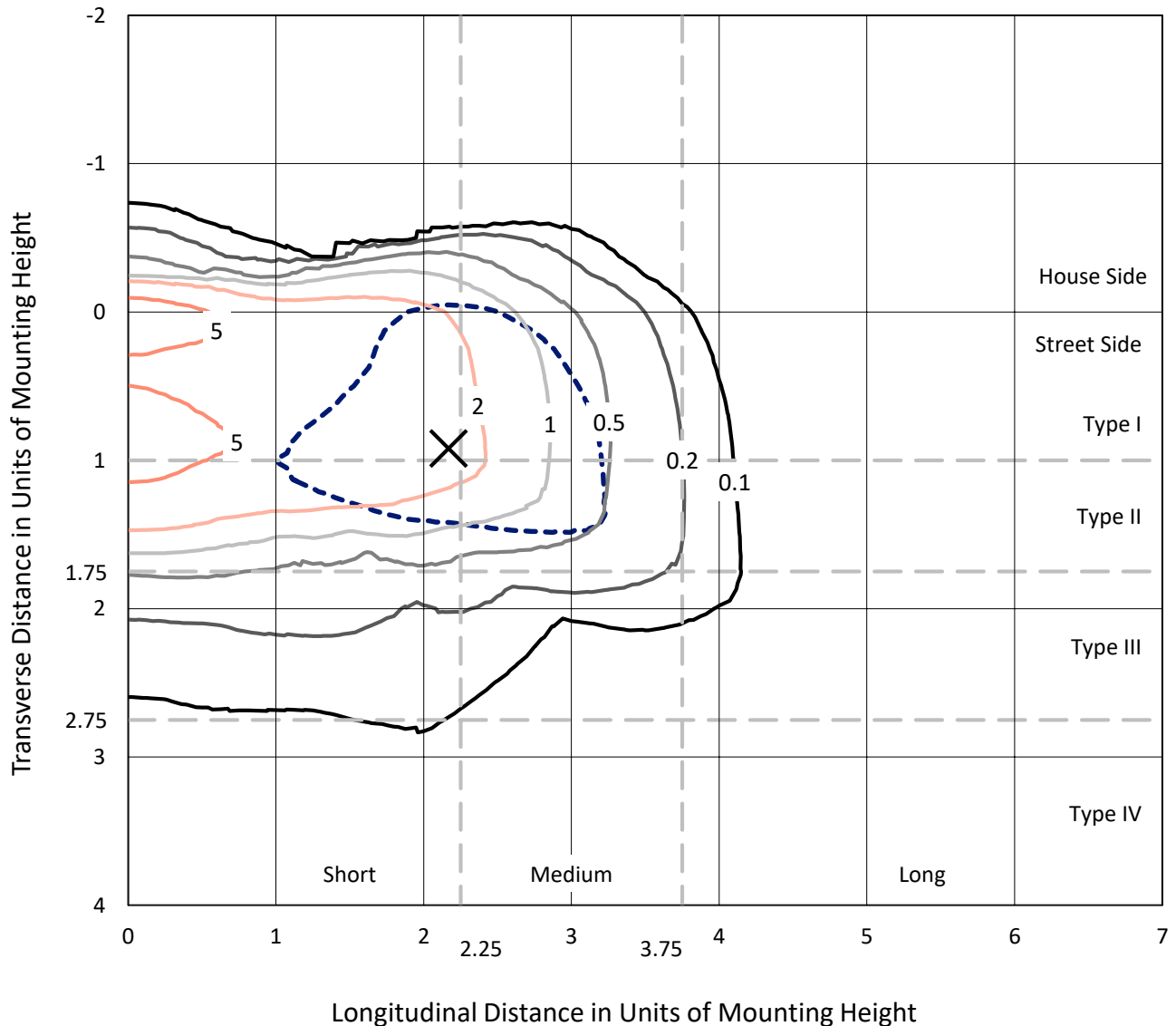


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Iso-Footcandle Lines of Horizontal Illumination

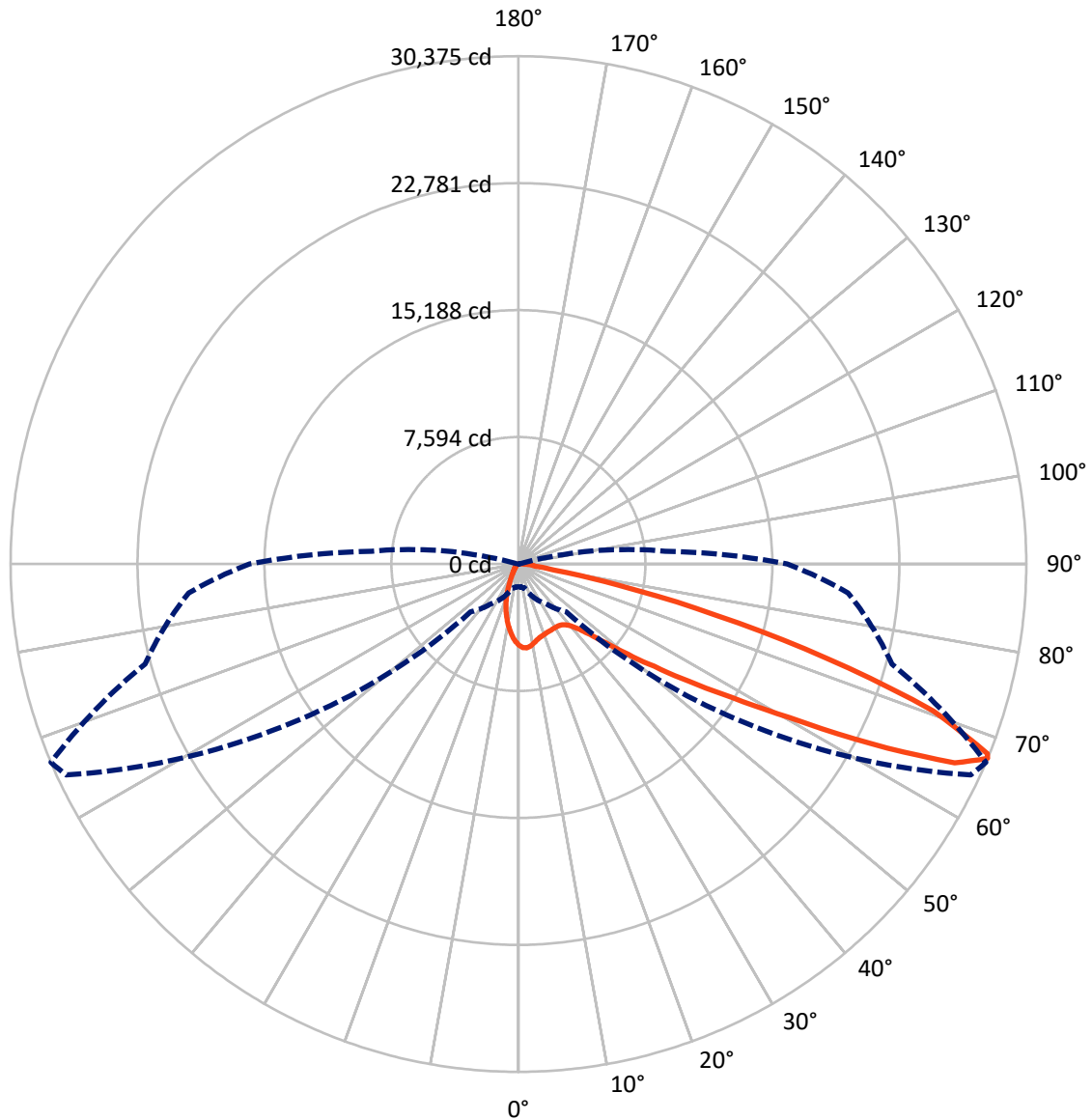
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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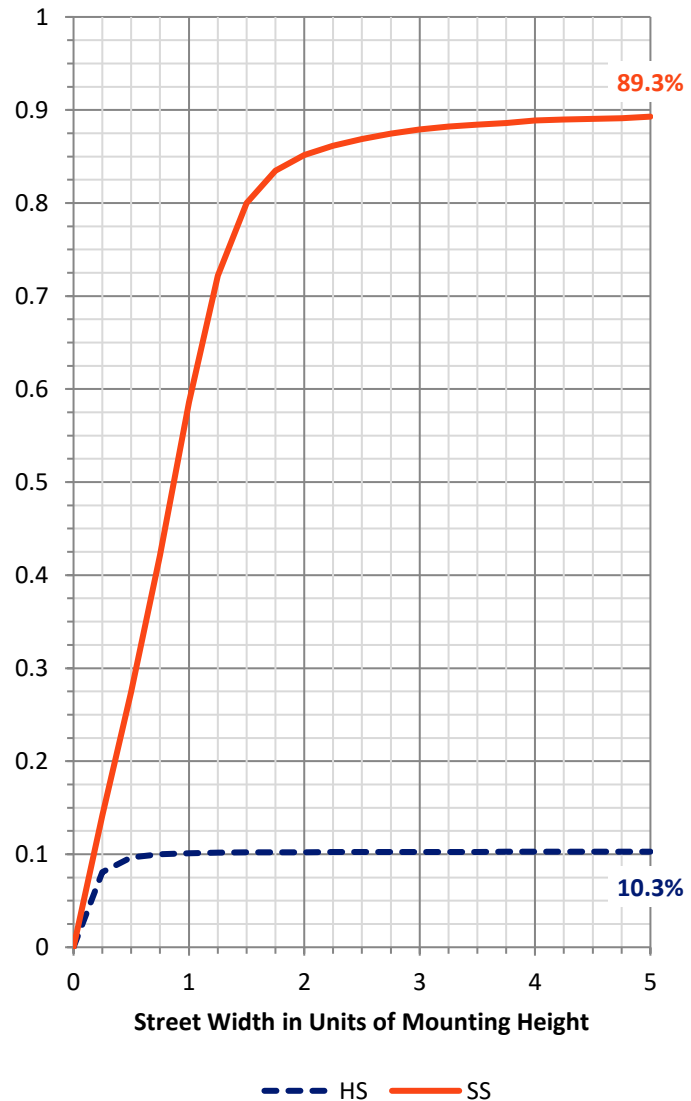
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2290.3	0.0	2290.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	19767.7	0.0	19767.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	22058.0	0.0	22058.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.8	1.8
10°-20°	842.5	3.8
20°-30°	1224.9	5.6
30°-40°	1910.9	8.7
40°-50°	3385.0	15.3
50°-60°	5356.4	24.3
60°-70°	6135.0	27.8
70°-80°	2544.8	11.5
80°-90°	262.9	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°	22058.0	100.0
0°-180°	22058.0	100.0



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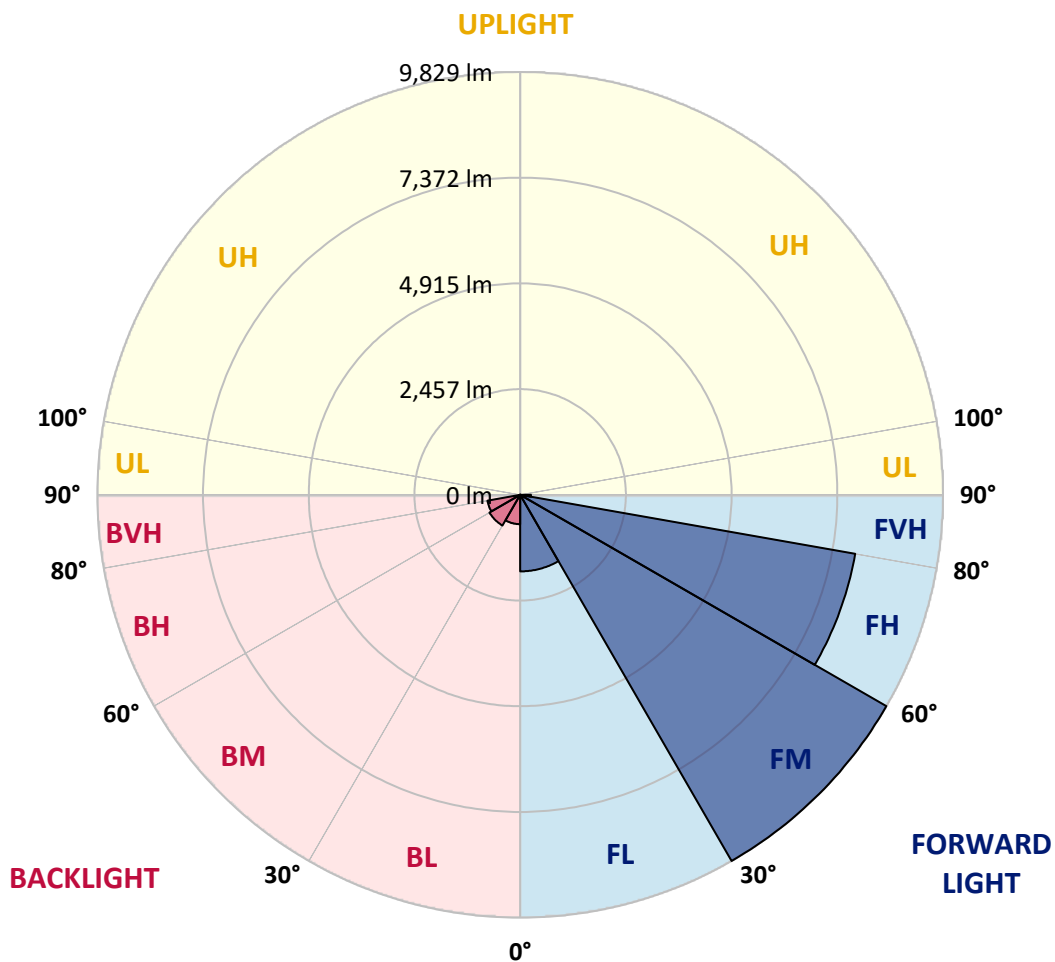
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1779.7	8.1			
FM (30°-60°)	9829.1	44.6			
FH (60°-80°)	7907.8	35.9			G4/12000
FVH (80°-90°)	251.0	1.1			G3/500
BL (0°-30°)	683.4	3.1	B2/1000		
BM (30°-60°)	823.1	3.7	B1/1000		
BH (60°-80°)	771.9	3.5	B2/1000		G2/1000
BVH (80°-90°)	11.8	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6
2.5°	5029.3	5039.6	5038.3	5046.0	5064.0	5065.3	5047.3	5012.6	5004.8	4959.8	4881.3
5°	4638.2	4667.8	4685.8	4759.1	4841.4	4940.5	5015.1	5042.2	5038.3	5006.1	4887.8
7.5°	4191.7	4221.3	4241.9	4328.1	4437.5	4607.3	4801.6	4961.1	4975.3	5010.0	4882.6
10°	3894.5	3899.7	3928.0	4010.3	4124.8	4298.5	4530.1	4809.3	4851.7	4979.1	4869.7
12.5°	3650.1	3653.9	3691.2	3780.0	3902.2	4077.2	4320.4	4643.3	4708.9	4940.5	4867.2
15°	3476.4	3490.5	3524.0	3616.6	3746.6	3920.2	4169.8	4521.1	4599.6	4926.4	4890.3
17.5°	3418.5	3433.9	3444.2	3511.1	3629.5	3799.3	4055.3	4441.3	4530.1	4934.1	4935.4
20°	3478.9	3490.5	3467.4	3484.1	3557.4	3709.2	3958.8	4373.1	4478.6	4943.1	4993.3
22.5°	3704.1	3709.2	3646.2	3572.9	3560.0	3643.6	3882.9	4319.1	4432.3	4967.5	5061.5
25°	4090.1	4081.1	3978.1	3819.9	3670.6	3632.0	3837.9	4285.6	4409.2	4993.3	5132.2
27.5°	4555.8	4568.7	4427.2	4196.9	3912.5	3709.2	3831.5	4271.5	4398.9	5011.3	5194.0
30°	5121.9	5139.9	4977.8	4688.3	4280.5	3899.7	3890.7	4268.9	4392.4	4999.7	5199.1
32.5°	5699.6	5721.5	5594.1	5295.6	4772.0	4218.7	4024.5	4297.2	4405.3	4959.8	5169.5
35°	6304.3	6335.2	6250.3	5994.2	5438.4	4679.3	4259.9	4383.4	4465.8	4956.0	5139.9
37.5°	7139.3	7167.6	7008.1	6736.6	6245.1	5296.9	4638.2	4545.5	4608.6	5017.7	5147.7
40°	8386.0	8382.1	7970.4	7554.9	7131.6	6081.7	5169.5	4838.9	4871.0	5204.3	5242.9
42.5°	9744.6	9738.2	9129.7	8497.9	8115.8	7047.9	5868.1	5345.8	5323.9	5547.8	5489.9
45°	10791.9	10790.6	10294.0	9582.5	9300.8	8157.0	6771.3	6050.8	6017.4	6106.2	5945.3
47.5°	11238.4	11246.1	10996.5	10496.0	10614.4	9657.2	7910.0	7072.4	7022.2	6986.2	6741.7
50°	10891.0	10906.4	10927.0	10829.2	11578.0	11673.2	9437.2	8512.1	8487.6	8326.8	7944.7
52.5°	9756.2	9834.7	10076.6	10386.7	11912.6	13608.3	11831.5	10300.5	10169.2	9998.1	9577.4
55°	7844.4	7930.6	8389.9	9142.5	11414.6	14879.4	15186.9	12606.0	12387.3	11876.5	11269.3
57.5°	5191.4	5325.2	5991.7	6948.9	9968.5	15084.0	18534.6	15805.8	15044.1	13645.6	12961.1
60°	2860.1	2988.8	3711.8	4579.0	7199.8	14072.7	20786.2	19971.8	18626.0	15623.1	15015.8
62.5°	1761.3	1830.8	2364.8	3171.4	4317.8	11107.1	21251.9	25206.9	23648.8	18169.2	17497.6
65°	1402.4	1432.0	1693.2	2592.5	3095.5	6606.6	19747.9	29197.9	28678.1	21251.9	19719.6
67°	1361.2	1372.8	1496.3	2225.8	2918.0	4050.2	16544.3	29847.6	30375.1	23117.5	19789.1
67.5°	1370.2	1383.1	1500.2	2124.2	2912.8	3722.1	15440.4	29591.6	30258.1	23265.4	19481.6
70°	1321.3	1361.2	1717.6	2122.9	2770.0	3093.0	9246.7	25639.2	26332.7	21617.3	16530.1
72.5°	468.3	470.9	742.4	1717.6	3011.9	3126.4	4643.3	18795.8	19309.2	16536.6	11917.7
75°	277.9	236.7	247.0	488.9	2878.1	3036.4	2678.7	12010.3	12202.0	9475.7	6035.4
77.5°	191.7	167.3	172.4	216.1	1096.2	2993.9	2128.0	6263.1	6058.6	3323.3	1285.3
80°	109.4	96.5	102.9	189.1	398.8	2793.2	2007.1	2539.7	2165.3	563.5	355.1
82.5°	57.9	48.9	59.2	155.7	277.9	1740.8	2010.9	1227.4	972.7	190.4	241.9
85°	20.6	16.7	28.3	106.8	185.3	533.9	1864.3	1031.8	810.6	92.6	184.0
87.5°	3.9	3.9	11.6	43.7	74.6	163.4	1102.6	612.4	410.4	55.3	126.1
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°	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6
2.5°	4849.2	4793.8	4719.2	4627.9	4519.8	4424.6	4353.8	4280.5	4265.1	4239.3	4235.5
5°	4817.0	4721.8	4536.5	4324.2	4097.8	3893.2	3727.3	3579.3	3513.7	3457.1	3450.6
7.5°	4769.4	4626.6	4311.4	3969.1	3615.3	3293.7	3020.9	2827.9	2650.4	2565.5	2552.6
10°	4714.1	4509.5	4057.9	3583.2	3094.3	2640.1	2234.8	1895.1	1689.3	1567.1	1551.6
12.5°	4662.6	4395.0	3799.3	3183.0	2533.3	1926.0	1405.0	1080.7	864.6	777.1	766.8
15°	4638.2	4302.4	3557.4	2773.9	1946.6	1226.1	768.1	594.4	523.6	503.1	501.8
17.5°	4635.6	4223.9	3320.7	2350.6	1363.8	712.8	500.5	456.7	442.6	437.4	437.4
20°	4634.3	4149.3	3084.0	1911.9	865.9	474.8	416.9	406.6	396.3	389.8	389.8
22.5°	4648.5	4082.4	2836.9	1464.1	545.5	384.7	366.7	356.4	343.5	334.5	333.2
25°	4662.6	4030.9	2584.8	1042.1	395.0	334.5	316.5	302.3	284.3	272.8	271.5
27.5°	4665.2	3966.6	2314.6	697.3	330.7	292.1	268.9	247.0	226.4	214.9	213.6
30°	4626.6	3858.5	2014.8	470.9	292.1	253.5	222.6	199.4	180.1	171.1	171.1
32.5°	4550.7	3724.7	1685.4	355.1	259.9	217.4	184.0	162.1	149.2	145.4	144.1
35°	4482.5	3580.6	1347.1	301.1	232.9	184.0	150.5	136.4	128.7	127.4	126.1
37.5°	4442.6	3464.8	1029.3	272.8	207.1	154.4	127.4	117.1	113.2	110.6	111.9
40°	4473.5	3368.3	760.4	249.6	181.4	128.7	108.1	102.9	99.1	97.8	97.8
42.5°	4608.6	3351.6	564.8	229.0	157.0	106.8	93.9	90.1	87.5	86.2	87.5
45°	4963.7	3454.5	438.7	209.7	132.5	90.1	79.8	78.5	77.2	77.2	77.2
47.5°	5497.6	3666.8	365.4	187.8	110.6	77.2	69.5	68.2	66.9	68.2	68.2
50°	6402.1	4055.3	326.8	166.0	91.3	65.6	59.2	59.2	59.2	59.2	60.5
52.5°	7777.4	4819.6	301.1	144.1	74.6	55.3	50.2	50.2	51.5	51.5	52.8
55°	9309.8	5833.4	277.9	122.2	63.0	46.3	41.2	42.5	43.7	45.0	45.0
57.5°	10972.1	6956.6	258.6	100.4	54.0	37.3	34.7	36.0	37.3	39.9	39.9
60°	12977.9	8172.4	230.3	78.5	45.0	29.6	27.0	29.6	33.5	36.0	37.3
62.5°	15180.5	9348.4	194.3	61.8	37.3	23.2	21.9	27.0	32.2	34.7	36.0
65°	16685.8	9717.6	149.2	50.2	28.3	16.7	18.0	24.4	30.9	34.7	34.7
67°	16076.0	8810.6	122.2	42.5	23.2	12.9	16.7	24.4	30.9	33.5	34.7
67.5°	15652.7	8455.5	117.1	41.2	21.9	12.9	16.7	24.4	30.9	34.7	34.7
70°	12736.0	6351.9	97.8	30.9	18.0	11.6	14.2	23.2	29.6	33.5	33.5
72.5°	8849.2	3916.4	87.5	21.9	15.4	10.3	12.9	21.9	28.3	32.2	33.5
75°	4207.2	1417.8	74.6	16.7	14.2	9.0	11.6	21.9	28.3	32.2	32.2
77.5°	858.2	329.4	60.5	14.2	11.6	9.0	10.3	20.6	27.0	30.9	30.9
80°	281.8	127.4	45.0	12.9	11.6	9.0	10.3	19.3	27.0	29.6	30.9
82.5°	203.3	64.3	29.6	12.9	11.6	9.0	9.0	19.3	25.7	29.6	29.6
85°	155.7	45.0	19.3	12.9	11.6	9.0	9.0	18.0	24.4	28.3	28.3
87.5°	102.9	18.0	15.4	12.9	11.6	9.0	9.0	18.0	23.2	27.0	28.3
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)