

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: P193593

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193593
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA 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: 20108 lumens
Efficiency: N/A
Efficacy: 72.1 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 - G3

Input Watts (W): 279
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

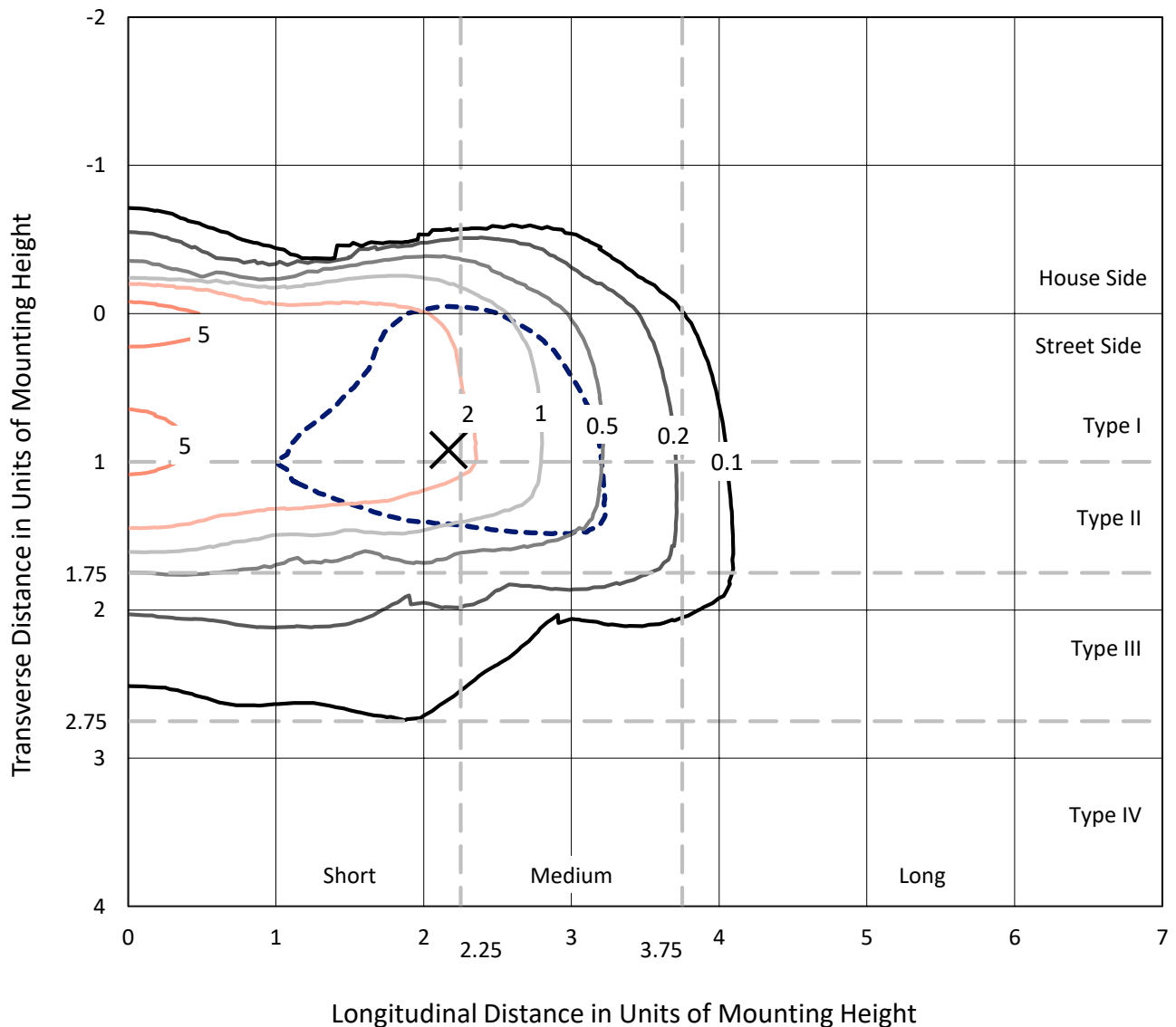


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Iso-Footcandle Lines of Horizontal Illumination

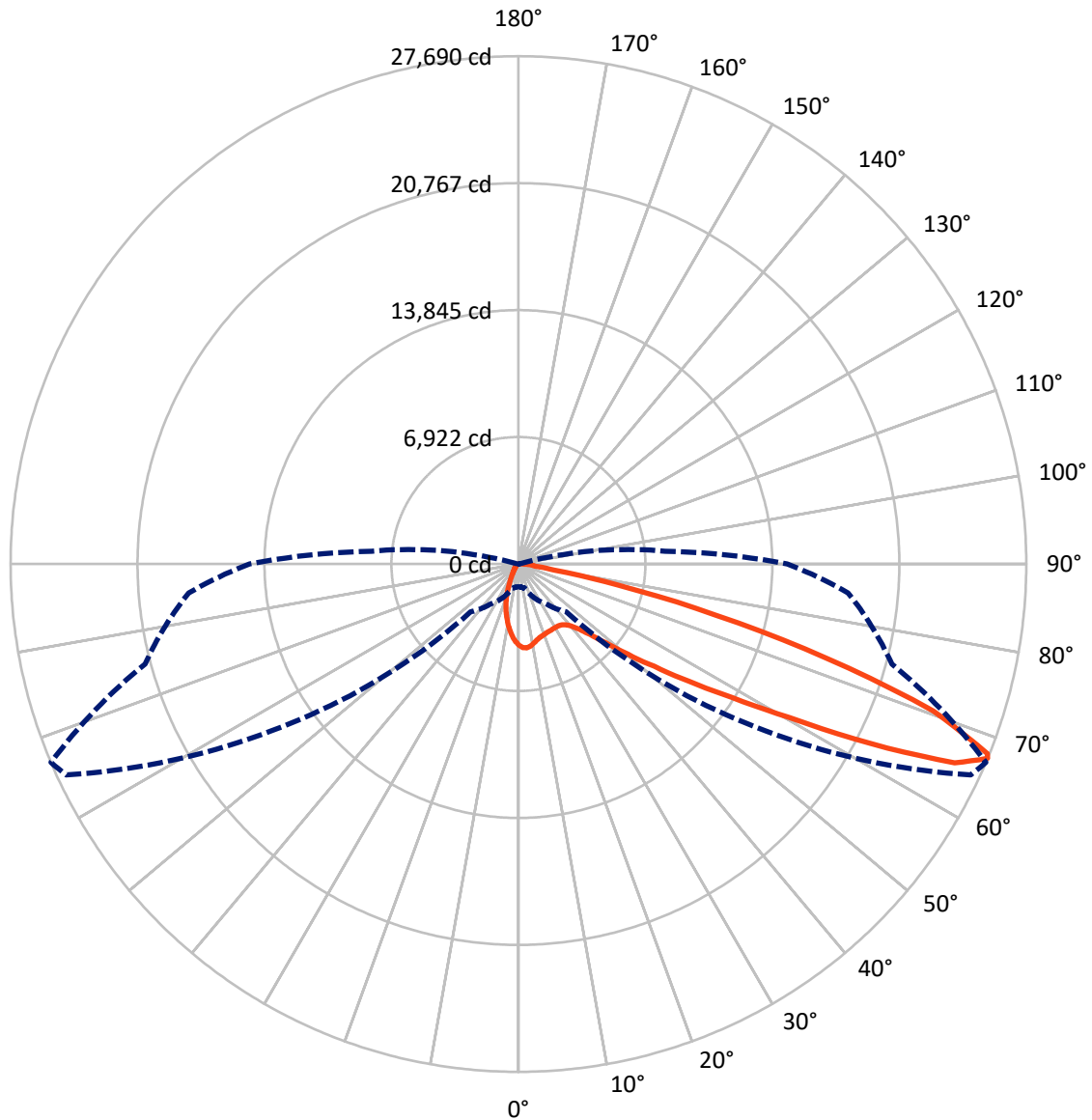
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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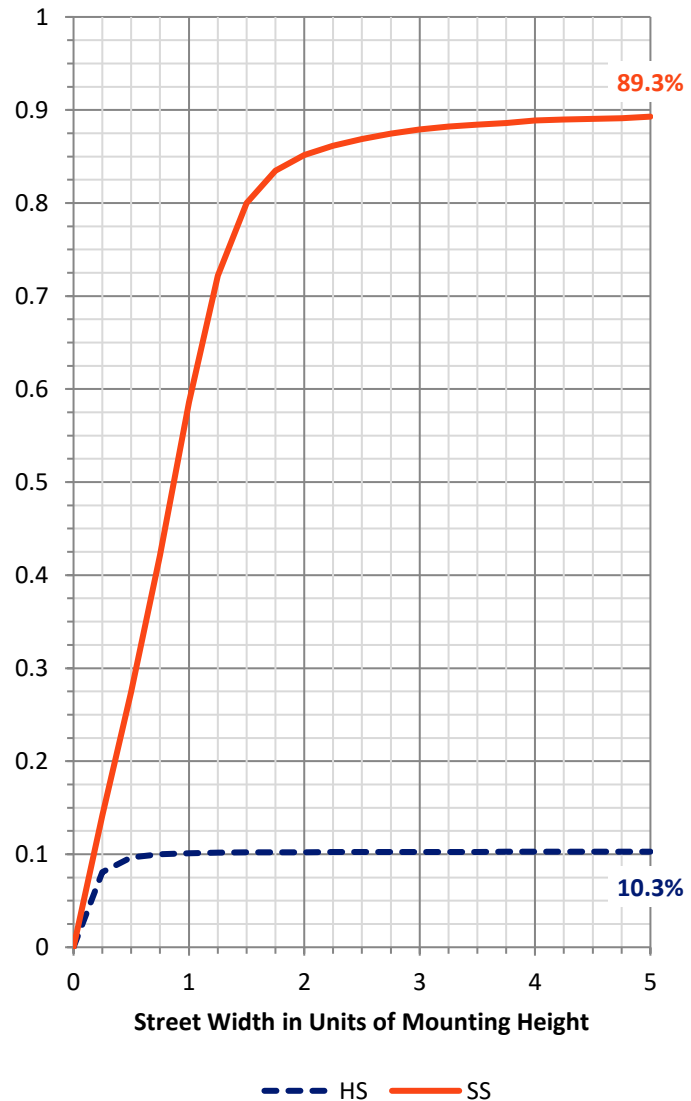
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2087.8	0.0	2087.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	18020.2	0.0	18020.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	20108.0	0.0	20108.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.8	1.8
10°-20°	768.0	3.8
20°-30°	1116.6	5.6
30°-40°	1741.9	8.7
40°-50°	3085.7	15.3
50°-60°	4882.9	24.3
60°-70°	5592.6	27.8
70°-80°	2319.8	11.5
80°-90°	239.6	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°	20108.0	100.0
0°-180°	20108.0	100.0



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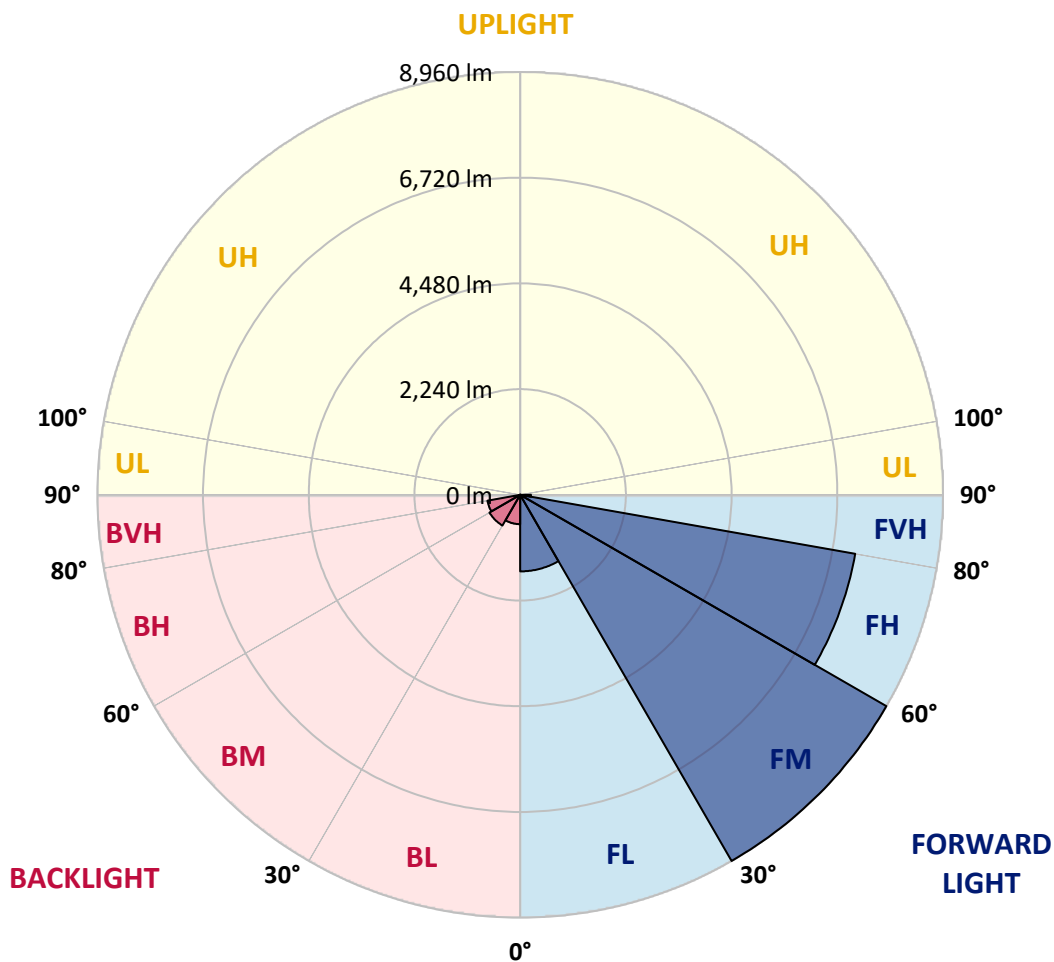
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1622.4	8.1			
FM	(30°-60°)	8960.2	44.6			
FH	(60°-80°)	7208.8	35.9			G3/7500
FVH	(80°-90°)	228.8	1.1			G3/500
BL	(0°-30°)	623.0	3.1	B2/1000		
BM	(30°-60°)	750.3	3.7	B1/1000		
BH	(60°-80°)	703.7	3.5	B2/1000		G2/1000
BVH	(80°-90°)	10.8	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6
2.5°	4584.7	4594.1	4592.9	4599.9	4616.3	4617.5	4601.1	4569.4	4562.4	4521.3	4449.8
5°	4228.1	4255.1	4271.5	4338.4	4413.4	4503.8	4571.8	4596.4	4592.9	4563.6	4455.7
7.5°	3821.2	3848.1	3866.9	3945.5	4045.2	4200.0	4377.1	4522.5	4535.4	4567.1	4451.0
10°	3550.2	3554.9	3580.7	3655.8	3760.2	3918.5	4129.6	4384.1	4422.8	4538.9	4439.2
12.5°	3327.4	3330.9	3364.9	3445.8	3557.3	3716.8	3938.4	4232.8	4292.6	4503.8	4436.9
15°	3169.0	3181.9	3212.4	3296.9	3415.3	3573.7	3801.2	4121.4	4192.9	4490.9	4458.0
17.5°	3116.3	3130.3	3139.7	3200.7	3308.6	3463.4	3696.8	4048.7	4129.6	4497.9	4499.1
20°	3171.4	3181.9	3160.8	3176.1	3242.9	3381.3	3608.9	3986.5	4082.7	4506.1	4551.8
22.5°	3376.6	3381.3	3323.9	3257.0	3245.3	3321.5	3539.7	3937.3	4040.5	4528.4	4614.0
25°	3728.5	3720.3	3626.5	3482.2	3346.1	3311.0	3498.6	3906.8	4019.4	4551.8	4678.5
27.5°	4153.1	4164.8	4035.8	3825.8	3566.6	3381.3	3492.8	3893.9	4010.0	4568.3	4734.8
30°	4669.1	4685.5	4537.8	4273.9	3902.1	3554.9	3546.7	3891.5	4004.1	4557.7	4739.5
32.5°	5195.7	5215.7	5099.6	4827.5	4350.1	3845.8	3668.7	3917.3	4015.8	4521.3	4712.5
35°	5747.0	5775.1	5697.7	5464.3	4957.6	4265.7	3883.3	3995.9	4071.0	4517.8	4685.5
37.5°	6508.2	6534.0	6388.5	6141.1	5693.0	4828.6	4228.1	4143.7	4201.2	4574.1	4692.6
40°	7644.7	7641.1	7265.8	6887.0	6501.1	5544.1	4712.5	4411.1	4440.4	4744.2	4779.4
42.5°	8883.2	8877.3	8322.6	7746.7	7398.4	6424.9	5349.4	4873.2	4853.3	5057.3	5004.6
45°	9837.9	9836.7	9384.0	8735.4	8478.6	7435.9	6172.7	5515.9	5485.4	5566.4	5419.8
47.5°	10244.9	10251.9	10024.4	9568.1	9676.0	8803.4	7210.7	6447.2	6401.4	6368.6	6145.7
50°	9928.2	9942.3	9961.0	9871.9	10554.5	10641.3	8602.9	7759.6	7737.3	7590.7	7242.4
52.5°	8893.7	8965.3	9185.8	9468.4	10859.4	12405.3	10785.6	9389.9	9270.2	9114.2	8730.7
55°	7150.9	7229.5	7648.2	8334.3	10405.6	13564.0	13844.4	11491.6	11292.2	10826.6	10273.0
57.5°	4732.5	4854.4	5462.0	6334.6	9087.3	13750.5	16896.1	14408.5	13714.2	12439.3	11815.3
60°	2607.3	2724.5	3383.7	4174.2	6563.3	12828.7	18948.6	18206.2	16979.4	14242.0	13688.4
62.5°	1605.6	1669.0	2155.7	2891.1	3936.1	10125.2	19373.2	22978.5	21558.2	16563.0	15950.8
65°	1278.4	1305.4	1543.5	2363.3	2821.9	6022.6	18002.1	26616.7	26142.9	19373.2	17976.3
67°	1240.9	1251.4	1364.0	2029.0	2660.0	3692.1	15081.7	27209.0	27689.9	21073.8	18039.6
67.5°	1249.1	1260.8	1367.5	1936.4	2655.3	3393.1	14075.4	26975.6	27583.2	21208.7	17759.3
70°	1204.5	1240.9	1565.8	1935.2	2525.2	2819.5	8429.3	23372.6	24004.8	19706.3	15068.8
72.5°	426.9	429.3	676.7	1565.8	2745.6	2850.0	4232.8	17134.2	17602.2	15074.7	10864.1
75°	253.3	215.8	225.2	445.7	2623.7	2767.9	2441.9	10948.6	11123.3	8638.1	5501.9
77.5°	174.8	152.5	157.2	197.0	999.3	2729.2	1939.9	5709.4	5523.0	3029.5	1171.7
80°	99.7	88.0	93.8	172.4	363.6	2546.3	1829.7	2315.2	1973.9	513.7	323.7
82.5°	52.8	44.6	54.0	141.9	253.3	1586.9	1833.2	1118.9	886.7	173.6	220.5
85°	18.8	15.2	25.8	97.3	168.9	486.7	1699.5	940.6	738.9	84.4	167.7
87.5°	3.5	3.5	10.6	39.9	68.0	149.0	1005.1	558.3	374.1	50.4	114.9
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°	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6	4434.6
2.5°	4420.5	4370.0	4302.0	4218.8	4120.2	4033.4	3968.9	3902.1	3888.0	3864.6	3861.0
5°	4391.2	4304.4	4135.5	3942.0	3735.5	3549.1	3397.8	3262.9	3203.1	3151.5	3145.6
7.5°	4347.8	4217.6	3930.2	3618.3	3295.7	3002.5	2753.9	2577.9	2416.1	2338.7	2326.9
10°	4297.3	4110.8	3699.2	3266.4	2820.7	2406.7	2037.2	1727.6	1540.0	1428.5	1414.5
12.5°	4250.4	4006.5	3463.4	2901.6	2309.3	1755.8	1280.8	985.2	788.2	708.4	699.0
15°	4228.1	3922.0	3242.9	2528.7	1774.5	1117.7	700.2	541.9	477.4	458.6	457.4
17.5°	4225.8	3850.5	3027.1	2142.8	1243.2	649.8	456.2	416.4	403.5	398.8	398.8
20°	4224.6	3782.5	2811.3	1742.9	789.3	432.8	380.0	370.6	361.2	355.4	355.4
22.5°	4237.5	3721.5	2586.1	1334.7	497.3	350.7	334.3	324.9	313.2	304.9	303.8
25°	4250.4	3674.5	2356.3	950.0	360.1	304.9	288.5	275.6	259.2	248.6	247.5
27.5°	4252.8	3615.9	2110.0	635.7	301.4	266.2	245.1	225.2	206.4	195.9	194.7
30°	4217.6	3517.4	1836.7	429.3	266.2	231.1	202.9	181.8	164.2	156.0	156.0
32.5°	4148.4	3395.4	1536.4	323.7	236.9	198.2	167.7	147.8	136.1	132.5	131.4
35°	4086.2	3264.0	1228.0	274.4	212.3	167.7	137.2	124.3	117.3	116.1	114.9
37.5°	4049.9	3158.5	938.3	248.6	188.8	140.7	116.1	106.7	103.2	100.9	102.0
40°	4078.0	3070.5	693.2	227.5	165.4	117.3	98.5	93.8	90.3	89.1	89.1
42.5°	4201.2	3055.3	514.9	208.8	143.1	97.3	85.6	82.1	79.8	78.6	79.8
45°	4524.9	3149.1	399.9	191.2	120.8	82.1	72.7	71.5	70.4	70.4	70.4
47.5°	5011.6	3342.6	333.1	171.2	100.9	70.4	63.3	62.2	61.0	62.2	62.2
50°	5836.1	3696.8	297.9	151.3	83.3	59.8	54.0	54.0	54.0	54.0	55.1
52.5°	7089.9	4393.5	274.4	131.4	68.0	50.4	45.7	45.7	46.9	46.9	48.1
55°	8486.8	5317.7	253.3	111.4	57.5	42.2	37.5	38.7	39.9	41.0	41.0
57.5°	10002.1	6341.6	235.7	91.5	49.3	34.0	31.7	32.8	34.0	36.4	36.4
60°	11830.6	7450.0	209.9	71.5	41.0	27.0	24.6	27.0	30.5	32.8	34.0
62.5°	13838.5	8521.9	177.1	56.3	34.0	21.1	19.9	24.6	29.3	31.7	32.8
65°	15210.7	8858.6	136.1	45.7	25.8	15.2	16.4	22.3	28.1	31.7	31.7
67°	14654.8	8031.7	111.4	38.7	21.1	11.7	15.2	22.3	28.1	30.5	31.7
67.5°	14268.9	7708.0	106.7	37.5	19.9	11.7	15.2	22.3	28.1	31.7	31.7
70°	11610.1	5790.4	89.1	28.1	16.4	10.6	12.9	21.1	27.0	30.5	30.5
72.5°	8066.9	3570.2	79.8	19.9	14.1	9.4	11.7	19.9	25.8	29.3	30.5
75°	3835.2	1292.5	68.0	15.2	12.9	8.2	10.6	19.9	25.8	29.3	29.3
77.5°	782.3	300.3	55.1	12.9	10.6	8.2	9.4	18.8	24.6	28.1	28.1
80°	256.9	116.1	41.0	11.7	10.6	8.2	9.4	17.6	24.6	27.0	28.1
82.5°	185.3	58.6	27.0	11.7	10.6	8.2	8.2	17.6	23.5	27.0	27.0
85°	141.9	41.0	17.6	11.7	10.6	8.2	8.2	16.4	22.3	25.8	25.8
87.5°	93.8	16.4	14.1	11.7	10.6	8.2	8.2	16.4	21.1	24.6	25.8
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)