

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: P457055

Luminaire Tested: **GALN-SA8B-760-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457055  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8B-760-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33734 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

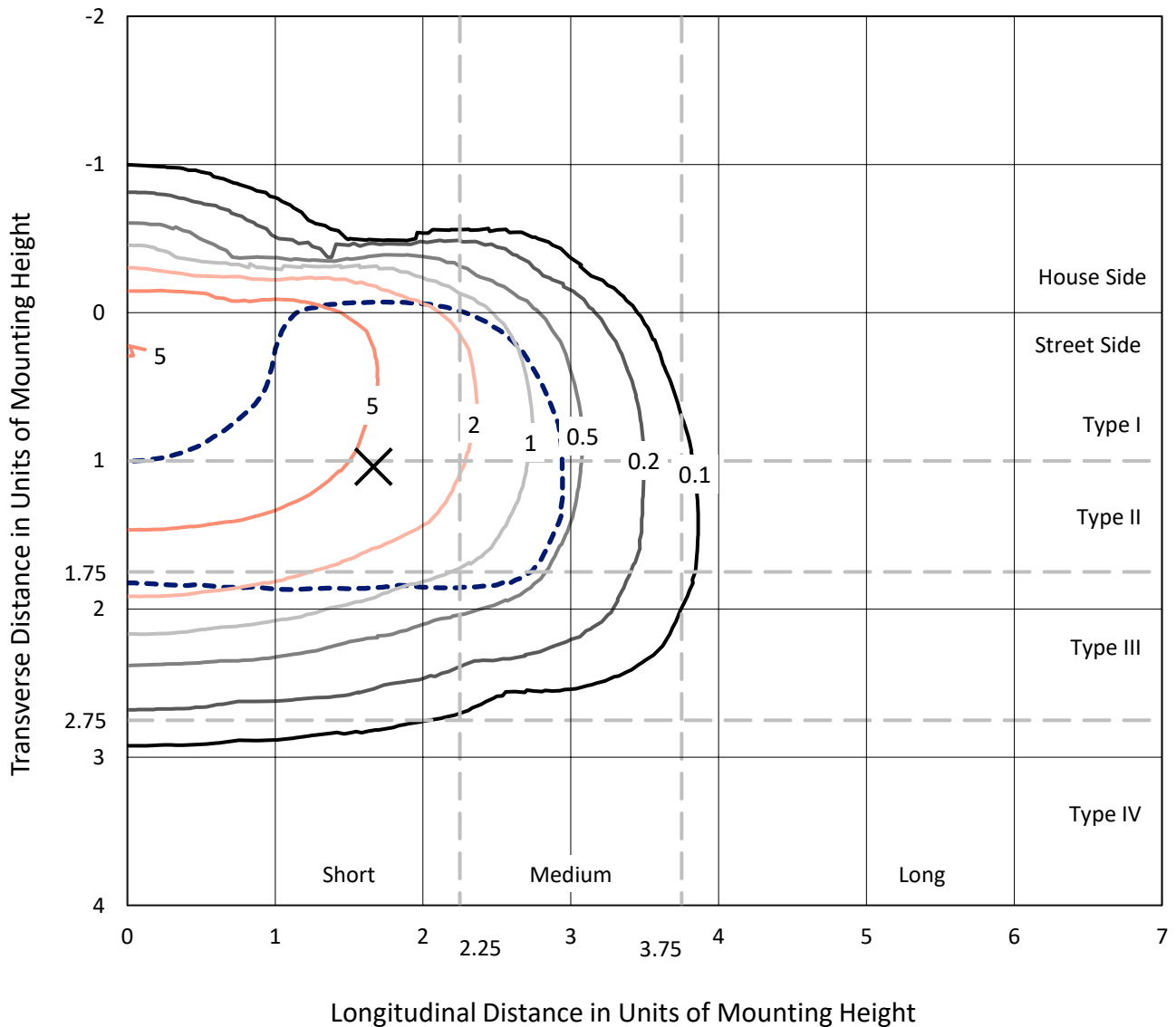
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

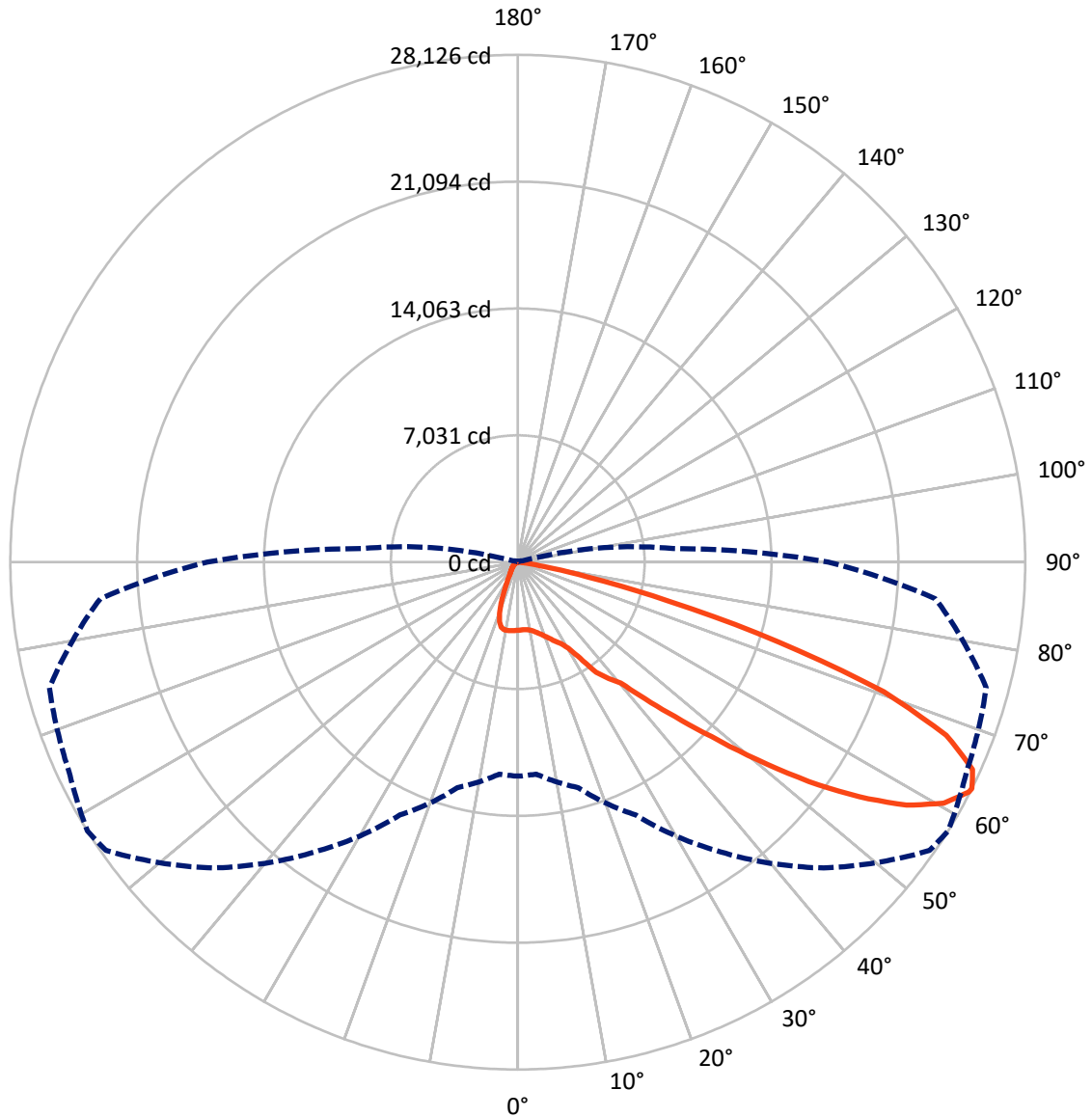
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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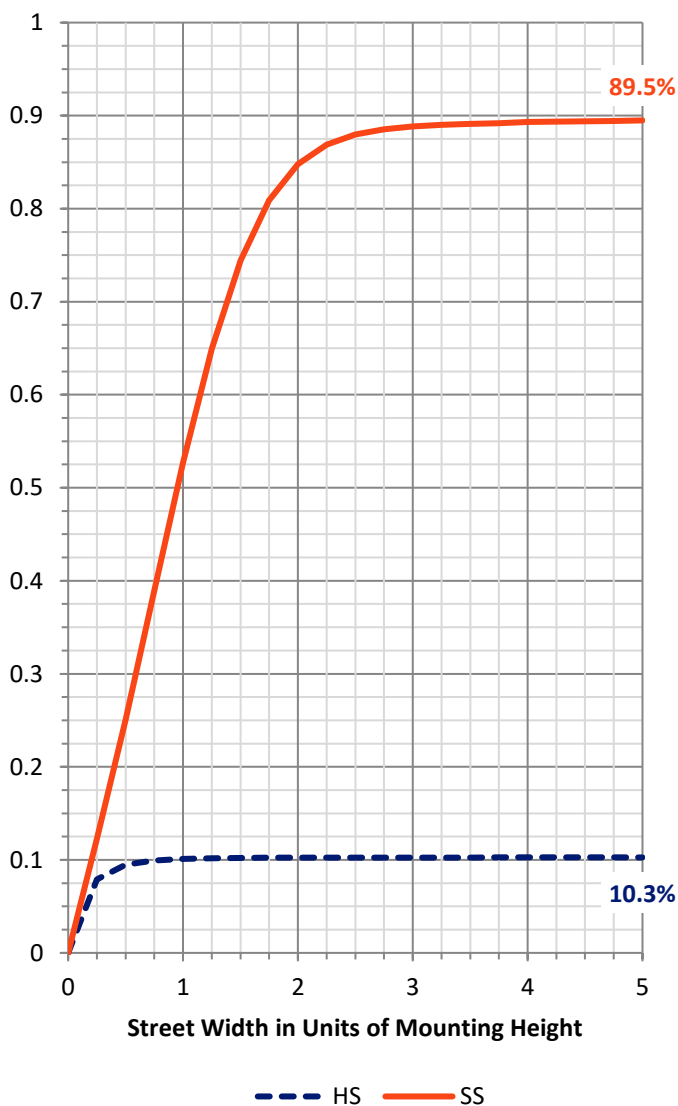
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3492.9	0.0	3492.9
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	30241.1	0.0	30241.1
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	33734.0	0.0	33734.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.5	1.0
10°-20°	962.9	2.9
20°-30°	1671.2	5.0
30°-40°	3071.0	9.1
40°-50°	5781.2	17.1
50°-60°	9888.3	29.3
60°-70°	9468.0	28.1
70°-80°	2414.4	7.2
80°-90°	123.4	0.4
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°	33734.0	100.0
0°-180°	33734.0	100.0

**Coefficient of Utilization**



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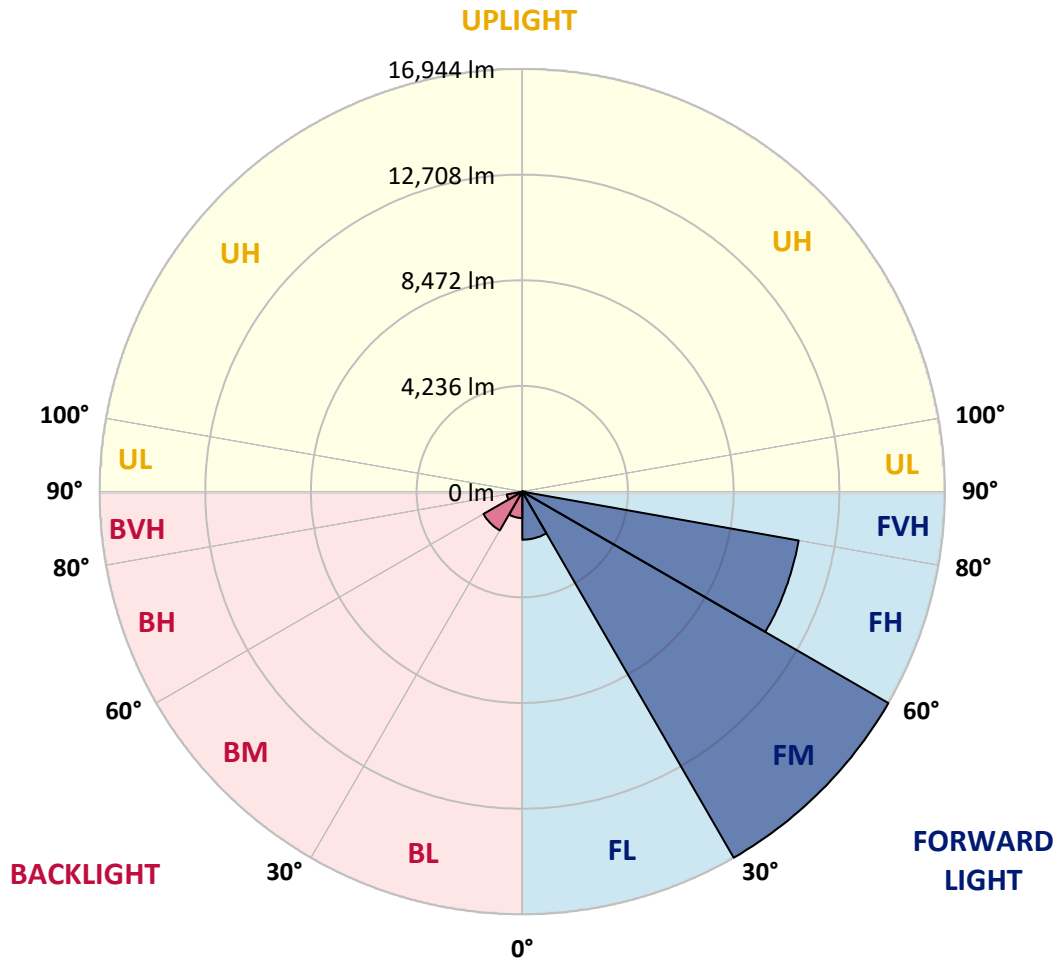
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1928.4	5.7			
FM	(30°-60°)	16943.9	50.2			
FH	(60°-80°)	11250.1	33.3			G4/12000
FVH	(80°-90°)	118.7	0.4			G2/225
BL	(0°-30°)	1059.3	3.1	B3/2500		
BM	(30°-60°)	1796.6	5.3	B2/2500		
BH	(60°-80°)	632.3	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3776.7	3776.7	3776.7	3776.7	3776.7	3776.7	3776.7	3776.7	3776.7	3776.7	3776.7
2.5°	3682.7	3695.4	3708.1	3713.2	3730.9	3748.7	3761.4	3758.9	3779.2	3789.4	3789.4
5°	3535.4	3535.4	3568.4	3598.9	3649.7	3700.5	3748.7	3758.9	3797.0	3832.5	3845.2
7.5°	3410.9	3418.5	3443.9	3499.8	3568.4	3657.3	3753.8	3776.7	3842.7	3921.4	3954.4
10°	3352.5	3357.6	3390.6	3449.0	3535.4	3657.3	3791.9	3835.1	3936.7	4061.1	4106.8
12.5°	3339.8	3347.4	3380.4	3446.5	3545.5	3692.8	3875.7	3921.4	4068.7	4228.7	4297.3
15°	3362.7	3367.7	3400.8	3471.9	3581.1	3756.3	3987.5	4050.9	4226.2	4411.6	4500.5
17.5°	3443.9	3438.9	3461.7	3520.1	3642.0	3835.1	4122.1	4198.3	4404.0	4658.0	4716.4
20°	3789.4	3756.3	3736.0	3685.2	3733.5	3946.8	4284.6	4396.4	4650.3	4909.4	4950.0
22.5°	4533.5	4459.9	4315.1	4117.0	3964.6	4099.2	4480.2	4609.7	4937.3	5191.3	5191.3
25°	5480.8	5386.9	5242.1	4810.3	4437.0	4350.6	4701.1	4863.7	5249.7	5506.2	5422.4
27.5°	6666.9	6593.3	6311.4	5808.5	5237.0	4790.0	4957.6	5107.5	5526.6	5836.4	5661.2
30°	7632.0	7596.5	7365.4	6915.8	6286.0	5633.2	5435.1	5534.2	5894.8	6252.9	6072.6
32.5°	8447.3	8447.3	8211.1	7792.0	7202.8	6623.7	6245.3	6316.4	6661.8	7075.8	6740.6
35°	9343.8	9313.4	9122.9	8724.1	8063.8	7553.3	7398.4	7494.9	7807.3	8114.6	7289.2
37.5°	10286.1	10275.9	10077.8	9691.8	9153.4	8510.8	8147.6	8173.0	8333.0	8521.0	7931.7
40°	11309.6	11324.9	11065.8	10827.1	10319.1	9661.3	8965.4	8805.4	8955.3	9486.1	9117.8
42.5°	12518.6	12483.0	12371.3	12046.2	11637.3	11243.6	10408.0	10349.6	10481.7	11050.6	10651.8
45°	13923.1	13973.9	13780.8	13600.5	13326.2	12998.6	12300.2	12198.6	12343.3	13227.2	12660.8
47.5°	15330.1	15281.9	15406.3	15373.3	15520.6	15276.8	14659.6	14451.3	14799.3	15637.4	14804.4
50°	16401.9	16455.2	16714.3	17092.7	17725.1	17862.3	17270.5	17199.4	17354.3	17892.7	16721.9
52.5°	17097.8	17275.6	17681.9	18654.7	19795.0	20681.4	20231.9	20193.8	20130.3	20275.1	18555.6
55°	17552.4	17732.7	18263.6	19696.0	21659.2	23099.3	23122.2	22959.6	22540.5	22436.4	20270.0
57.5°	17273.0	17308.6	18065.4	19980.4	22692.9	24823.8	25570.5	25408.0	24633.3	24239.7	21783.7
60°	15525.7	15599.3	16653.3	18903.6	22243.4	25387.6	27193.4	27119.8	26271.5	25827.0	22962.1
62.5°	12429.7	12643.0	13727.5	16236.8	20153.1	24437.8	27851.2	28059.5	27399.1	26787.1	23333.0
63°	11860.8	11792.2	12937.6	15459.6	19599.5	23967.9	27861.4	28125.5	27449.9	26878.5	23231.4
65°	8780.0	8985.7	9729.9	12190.9	16310.5	21781.1	27234.1	27701.4	27262.0	26474.7	22106.2
67.5°	4929.7	4919.6	5742.4	7977.4	11416.3	17085.1	24625.7	25613.7	25522.2	23757.1	18324.5
70°	2412.8	2450.9	2788.7	4134.8	6621.2	11787.1	20463.0	21529.7	21562.7	18659.8	12671.0
72.5°	1092.1	1109.9	1351.2	2014.0	3403.3	6275.8	14100.9	15119.3	14931.4	11891.2	6997.1
75°	576.5	614.6	744.2	1013.4	1640.7	2588.0	7670.1	8655.6	8261.9	5432.6	2575.3
77.5°	426.7	439.4	505.4	645.1	878.8	1008.3	3309.3	3936.7	3687.8	1965.8	853.4
80°	312.4	322.6	375.9	457.2	553.7	513.0	1247.0	1429.9	1282.6	668.0	261.6
82.5°	190.5	193.0	274.3	340.3	347.9	287.0	411.4	441.9	462.2	375.9	142.2
85°	68.6	86.4	185.4	246.4	205.7	144.8	172.7	190.5	208.3	238.7	83.8
87.5°	7.6	10.2	88.9	119.4	58.4	53.3	63.5	71.1	76.2	88.9	40.6
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°	3776.7	3776.7	3776.7	3776.7	3776.7	3776.7	3776.7	3776.7	3776.7	3776.7	3776.7
2.5°	3799.5	3809.7	3802.0	3789.4	3786.8	3779.2	3764.0	3764.0	3764.0	3769.0	3764.0
5°	3855.4	3863.0	3845.2	3819.8	3791.9	3756.3	3718.2	3695.4	3692.8	3687.8	3675.1
7.5°	3962.1	3972.2	3931.6	3870.6	3794.4	3708.1	3626.8	3550.6	3515.1	3487.1	3487.1
10°	4117.0	4127.1	4045.9	3936.7	3784.3	3609.0	3416.0	3240.8	3103.6	3040.1	3024.9
12.5°	4302.4	4307.5	4172.9	3982.4	3730.9	3393.1	2981.7	2598.2	2331.5	2209.6	2196.9
15°	4505.6	4470.0	4292.2	4000.2	3578.5	2948.7	2237.5	1767.7	1490.9	1409.6	1440.1
17.5°	4711.3	4645.3	4383.7	3972.2	3235.7	2237.5	1503.5	1206.4	1120.0	1097.2	1097.2
20°	4904.3	4812.9	4449.7	3850.3	2641.4	1541.6	1115.0	1043.8	1028.6	1013.4	1015.9
22.5°	5097.3	4957.6	4508.1	3578.5	1968.3	1102.3	998.1	975.3	955.0	934.6	932.1
25°	5285.3	5092.3	4531.0	3075.7	1341.0	947.3	911.8	881.3	840.7	817.8	812.7
27.5°	5480.8	5254.8	4515.7	2440.7	977.8	848.3	812.7	769.6	721.3	680.7	680.7
30°	5856.7	5564.7	4462.4	1755.0	822.9	746.7	701.0	632.4	579.1	538.4	535.9
32.5°	6369.8	5968.5	4279.5	1234.3	731.5	657.8	589.2	513.0	457.2	426.7	426.7
35°	6826.9	6374.8	3936.7	909.2	657.8	571.5	487.6	414.0	370.8	350.5	342.9
37.5°	7522.8	6969.2	3464.3	739.1	586.7	495.3	408.9	340.3	304.8	289.5	289.5
40°	8566.7	7695.5	2885.2	647.6	518.1	421.6	340.3	287.0	259.1	241.3	241.3
42.5°	9862.0	8584.5	2298.5	581.6	454.6	363.2	284.5	243.8	218.4	205.7	203.2
45°	11492.5	9521.6	1770.2	520.7	403.8	309.9	241.3	205.7	180.3	172.7	175.2
47.5°	13194.2	10347.1	1371.5	467.3	350.5	261.6	205.7	177.8	160.0	149.8	149.8
50°	14646.9	10916.0	1041.3	406.4	309.9	221.0	180.3	160.0	144.8	139.7	137.1
52.5°	15860.9	11081.1	797.5	353.0	271.8	190.5	160.0	144.8	132.1	124.4	124.4
55°	16894.6	10936.3	624.8	297.2	228.6	165.1	142.2	129.5	114.3	106.7	104.1
57.5°	17499.1	10471.5	477.5	246.4	185.4	137.1	124.4	109.2	91.4	78.7	78.7
60°	17803.9	9795.9	365.7	203.2	142.2	109.2	101.6	81.3	63.5	53.3	50.8
62.5°	17438.1	8899.4	276.8	160.0	106.7	81.3	68.6	58.4	40.6	30.5	30.5
63°	17212.1	8640.3	266.7	152.4	99.1	76.2	63.5	53.3	35.6	27.9	25.4
65°	15690.8	7510.1	218.4	121.9	78.7	53.3	43.2	38.1	25.4	12.7	10.2
67.5°	12460.2	5745.0	172.7	91.4	55.9	38.1	25.4	22.9	7.6	0.0	0.0
70°	8424.4	3710.6	134.6	66.0	38.1	22.9	12.7	10.2	2.5	0.0	0.0
72.5°	4393.8	1902.3	104.1	48.3	22.9	15.2	7.6	2.5	0.0	0.0	0.0
75°	1554.3	647.6	76.2	30.5	15.2	7.6	2.5	0.0	0.0	0.0	0.0
77.5°	469.9	241.3	48.3	22.9	10.2	5.1	0.0	0.0	0.0	0.0	0.0
80°	165.1	88.9	27.9	15.2	7.6	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	81.3	43.2	17.8	12.7	7.6	2.5	0.0	0.0	0.0	0.0	0.0
85°	45.7	27.9	15.2	12.7	7.6	5.1	0.0	0.0	0.0	0.0	0.0
87.5°	33.0	20.3	15.2	12.7	10.2	5.1	2.5	0.0	0.0	0.0	0.0
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)