

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: P383374

Luminaire Tested: **GLEON-SA6D-735-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383374  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6D-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA 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: 31502.2 lumens  
Efficiency: N/A  
Efficacy: 82.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

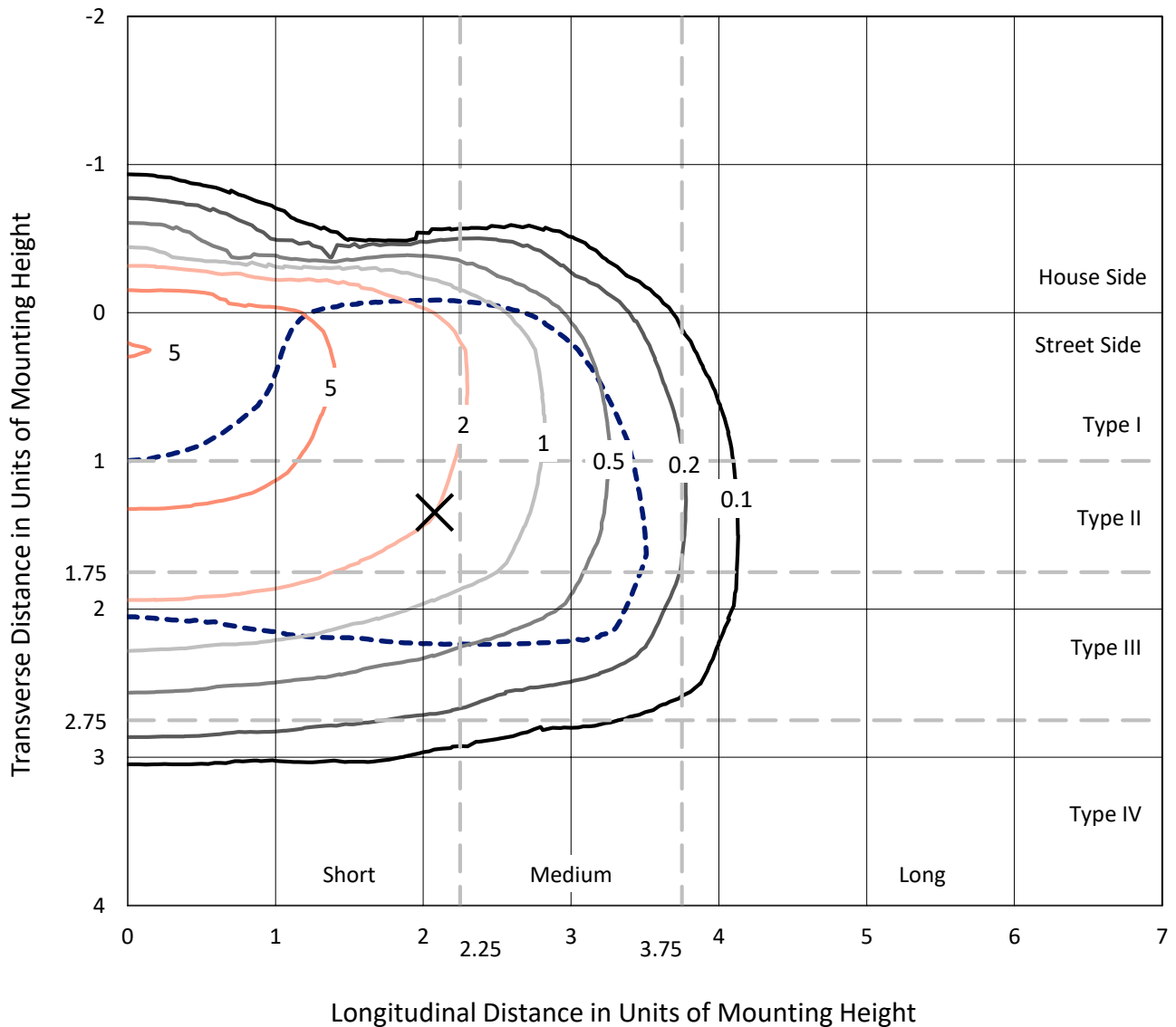
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

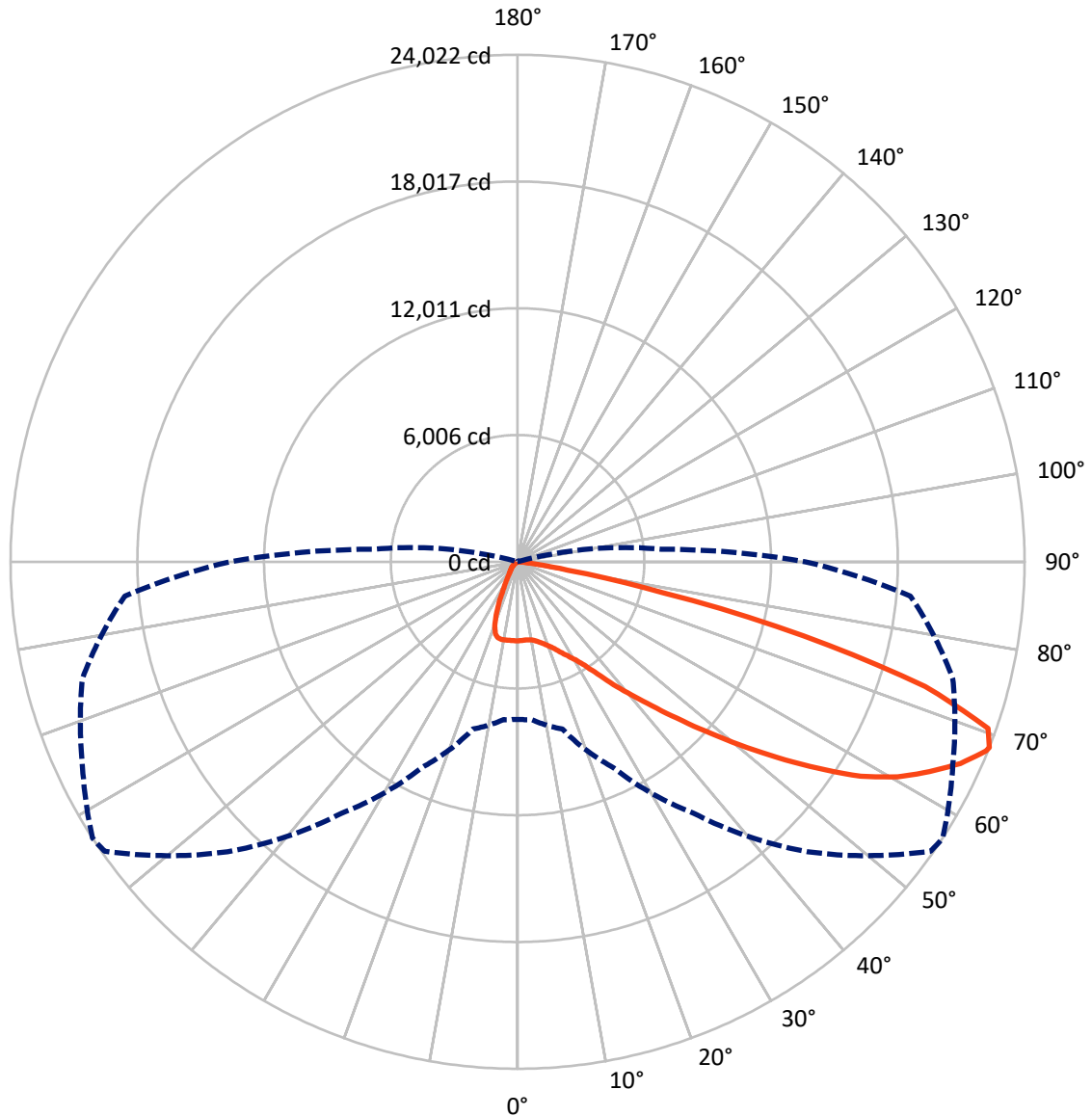
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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 CATALOG NUMBER: GLEON-SA6D-735-U-T3-HSS

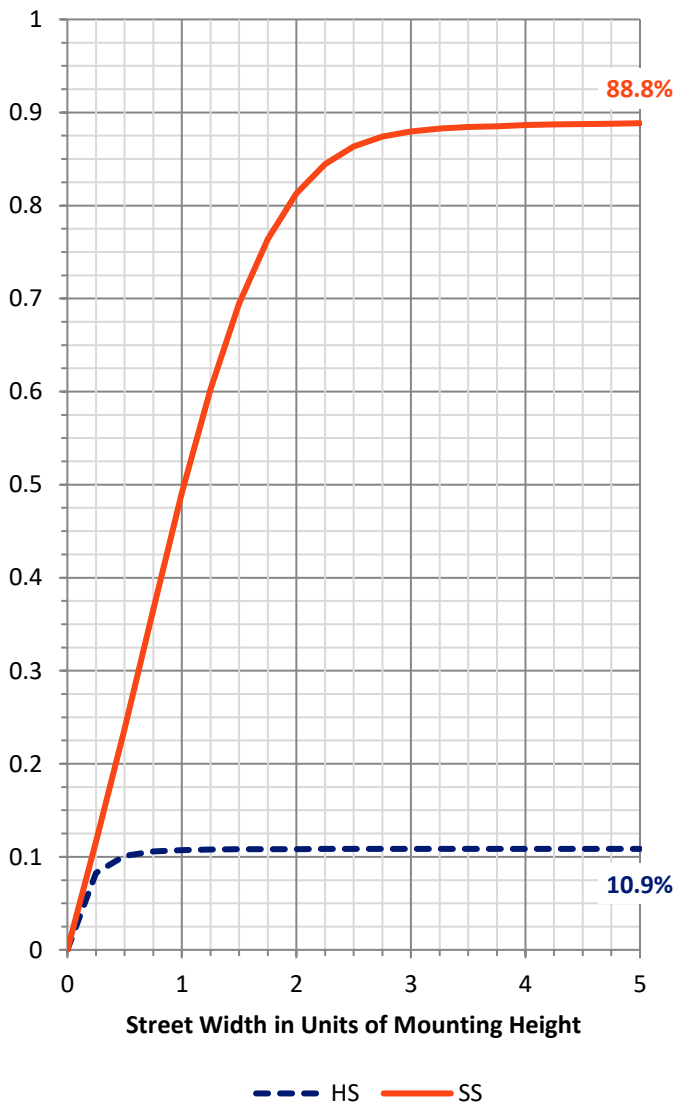
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3454.4	0.0	3454.4
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	28047.7	0.0	28047.7
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	31502.2	0.0	31502.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.3	1.1
10°-20°	970.7	3.1
20°-30°	1674.6	5.3
30°-40°	2890.4	9.2
40°-50°	4944.0	15.7
50°-60°	7909.9	25.1
60°-70°	9139.1	29.0
70°-80°	3492.2	11.1
80°-90°	130.9	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°	31502.2	100.0
0°-180°	31502.2	100.0

**Coefficient of Utilization**



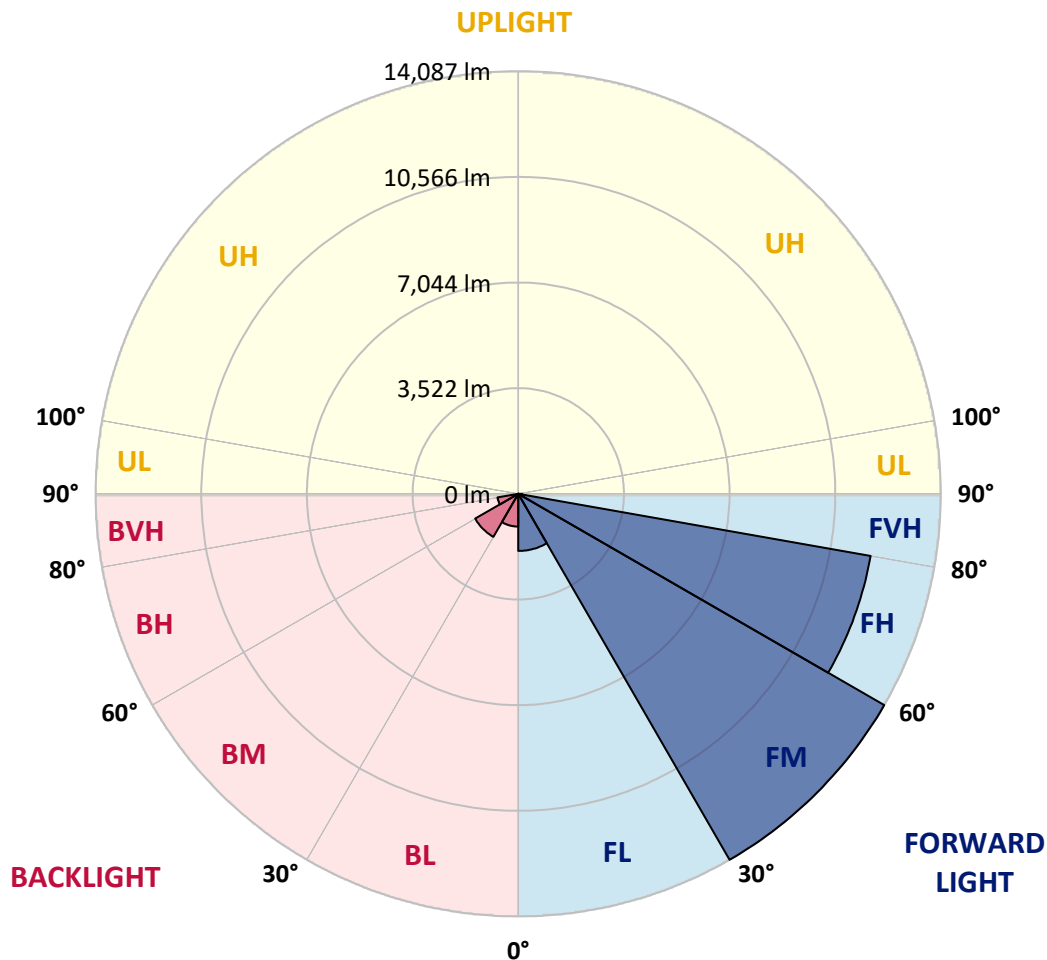
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 CATALOG NUMBER: GLEON-SA6D-735-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1904.0	6.0			
FM (30°-60°)	14087.5	44.7			
FH (60°-80°)	11927.7	37.9			G4/12000
FVH (80°-90°)	128.5	0.4			G2/225
BL (0°-30°)	1091.7	3.5	B3/2500		
BM (30°-60°)	1656.8	5.3	B2/2500		
BH (60°-80°)	703.5	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3743.3	3743.3	3743.3	3743.3	3743.3	3743.3	3743.3	3743.3	3743.3	3743.3	3743.3
2.5°	3655.4	3671.8	3683.7	3691.2	3700.1	3719.5	3725.4	3734.4	3738.9	3738.9	3749.2
5°	3510.9	3528.8	3554.1	3575.0	3616.6	3670.3	3709.0	3724.0	3750.7	3774.5	3788.0
7.5°	3376.9	3397.7	3427.5	3476.6	3548.2	3634.5	3715.0	3735.9	3788.0	3838.6	3864.0
10°	3290.4	3306.8	3345.6	3415.6	3509.4	3630.1	3743.3	3768.6	3858.0	3942.9	3990.6
12.5°	3260.7	3275.6	3315.8	3394.7	3510.9	3652.4	3808.8	3846.1	3977.1	4100.8	4167.8
15°	3303.8	3306.8	3350.0	3424.6	3539.2	3707.6	3917.5	3962.2	4127.6	4288.5	4371.8
17.5°	3470.7	3457.3	3479.6	3512.4	3603.2	3780.5	4032.3	4099.3	4319.8	4509.0	4587.9
20°	3887.8	3887.8	3837.1	3747.7	3749.2	3893.8	4187.2	4263.1	4532.7	4751.7	4823.2
22.5°	4601.3	4587.9	4486.6	4267.6	4066.5	4088.8	4376.3	4474.7	4789.0	5022.8	5046.7
25°	5459.2	5442.8	5286.4	4978.1	4629.6	4404.6	4632.6	4745.8	5094.4	5301.3	5252.3
27.5°	6367.9	6354.5	6199.5	5816.8	5320.7	4908.1	4937.9	5045.2	5405.7	5609.7	5453.3
30°	7248.3	7252.8	7099.3	6706.0	6144.5	5550.2	5325.2	5387.8	5708.1	5915.0	5691.7
32.5°	8085.4	8091.3	7958.8	7519.4	6995.0	6296.4	5861.5	5845.1	6059.5	6263.6	6007.5
35°	8831.6	8846.5	8755.7	8414.6	7859.0	7127.6	6557.1	6518.3	6558.6	6789.5	6491.6
37.5°	9551.2	9560.0	9491.5	9204.1	8739.3	8040.7	7435.9	7380.8	7294.4	7471.7	7130.5
40°	10339.1	10316.8	10237.8	9977.2	9577.9	9049.1	8380.3	8285.0	8134.6	8292.5	7970.7
42.5°	11072.0	11046.7	11060.1	10765.2	10428.5	10085.9	9481.1	9317.2	9229.4	9411.1	9001.5
45°	11988.1	11974.7	12019.3	11763.1	11490.5	11241.7	10742.8	10564.0	10525.3	10738.3	10248.2
47.5°	12892.2	12924.9	13063.6	12954.8	12844.6	12625.5	12078.9	11998.5	12022.3	12280.0	11563.5
50°	13646.0	13684.6	14064.5	14189.6	14349.0	14220.9	13672.8	13623.6	13717.4	13949.8	12978.6
52.5°	14191.1	14270.1	14742.3	15318.7	15899.7	15986.0	15439.4	15394.7	15521.3	15557.0	14072.0
55°	14569.5	14639.5	15174.3	16228.9	17411.6	17784.0	17444.3	17271.5	17247.7	16894.6	15221.9
57.5°	14636.5	14629.0	15397.6	16817.2	18597.2	19558.0	19343.5	19173.8	18685.2	18131.0	16540.2
60°	14258.2	14301.3	15193.6	17021.3	19342.0	20900.1	20916.5	20696.1	19934.9	19333.2	17818.2
62.5°	13093.3	13269.1	14170.2	16486.5	19333.2	21440.9	22069.5	21901.1	20991.0	20317.7	19114.1
65°	11204.6	11267.1	12126.6	14654.4	18026.8	21214.4	23107.7	23045.1	21942.8	21274.0	19780.0
67.5°	8182.2	8046.6	8949.3	11539.7	15262.1	19894.7	23852.5	23931.4	22677.2	21470.7	19070.9
68°	7467.2	7507.4	8210.5	10769.6	14538.2	19428.4	23901.6	24022.3	22750.2	21342.5	18683.7
70°	4450.8	4528.3	5155.4	7415.0	11060.1	16790.4	23371.3	23646.9	22315.2	20021.3	16160.3
72.5°	1136.6	1228.9	1821.7	3318.7	6317.3	11830.2	19729.3	20195.6	19374.8	16242.3	10909.6
75°	467.7	491.6	651.0	1093.4	2353.6	5329.7	13003.9	14001.9	13431.4	9723.9	4930.5
77.5°	323.2	339.6	418.5	606.3	1018.8	1806.8	6375.3	7096.3	6393.2	3318.7	1075.5
80°	232.3	245.7	299.4	403.6	585.4	645.0	2077.9	2402.6	1908.2	728.4	266.6
82.5°	138.5	149.0	223.5	287.5	356.0	308.3	516.9	586.9	552.6	362.0	119.1
85°	68.6	80.4	150.4	205.6	192.2	129.6	157.9	175.8	217.5	220.5	64.1
87.5°	4.5	8.9	87.8	123.6	53.7	29.8	46.2	56.6	77.4	108.7	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3743.3	3743.3	3743.3	3743.3	3743.3	3743.3	3743.3	3743.3	3743.3	3743.3	3743.3
2.5°	3753.7	3755.2	3744.8	3740.3	3743.3	3725.4	3718.0	3721.0	3721.0	3725.4	3718.0
5°	3790.9	3790.9	3773.0	3749.2	3735.9	3701.6	3679.2	3673.3	3668.8	3665.8	3659.9
7.5°	3871.4	3862.5	3831.2	3779.0	3734.4	3659.9	3603.2	3573.5	3558.6	3552.6	3548.2
10°	4001.0	3984.6	3932.4	3835.6	3732.9	3600.2	3476.6	3388.8	3315.8	3286.0	3268.1
12.5°	4175.3	4151.4	4063.5	3902.6	3722.5	3478.1	3210.0	2952.4	2712.5	2614.2	2565.0
15°	4376.3	4342.1	4203.6	3959.3	3661.4	3202.6	2620.2	2168.8	1836.6	1711.5	1657.9
17.5°	4580.4	4535.7	4325.7	3995.0	3478.1	2632.1	1838.1	1388.3	1166.3	1106.8	1085.9
20°	4786.0	4720.4	4431.5	3968.2	3064.0	1897.7	1212.5	1014.4	950.4	932.5	926.5
22.5°	4981.1	4879.8	4526.8	3864.0	2426.5	1273.6	959.3	896.7	875.8	865.4	862.4
25°	5150.9	5009.4	4610.2	3542.2	1717.5	962.3	863.9	843.1	816.3	796.9	798.4
27.5°	5310.3	5139.0	4660.9	3011.9	1145.5	822.3	799.9	771.6	722.4	694.1	694.1
30°	5502.5	5311.8	4698.1	2317.8	843.1	726.9	709.0	665.9	598.8	561.5	561.5
32.5°	5791.4	5574.0	4674.2	1626.6	698.6	639.0	597.3	537.7	464.7	429.0	427.5
35°	6233.8	5979.1	4504.5	1066.5	616.7	555.6	488.6	415.6	351.6	321.8	320.3
37.5°	6829.6	6521.3	4123.1	762.7	552.6	478.2	397.7	317.3	269.6	250.2	248.7
40°	7602.7	7151.4	3578.0	618.2	493.1	403.6	306.9	245.7	213.0	198.1	199.6
42.5°	8530.7	7826.2	2924.0	533.3	434.9	332.2	239.8	193.7	172.8	162.4	159.4
45°	9561.5	8492.0	2238.8	475.2	376.9	268.1	187.7	153.4	137.0	131.1	131.1
47.5°	10695.1	9140.0	1638.5	424.5	314.3	207.1	150.4	125.1	111.7	107.2	105.7
50°	11724.4	9589.8	1181.2	370.9	257.7	163.9	122.1	104.2	95.3	89.3	89.3
52.5°	12582.4	9731.3	869.9	312.8	208.6	131.1	101.3	89.3	80.4	76.0	76.0
55°	13337.6	9673.3	646.5	257.7	168.3	107.2	86.4	76.0	68.6	64.1	64.1
57.5°	14061.5	9485.6	482.6	210.1	135.5	86.4	73.0	64.1	56.6	53.7	53.7
60°	14652.9	9172.8	359.0	169.8	108.7	70.1	61.1	52.2	46.2	41.7	41.7
62.5°	15132.5	8827.2	263.6	140.0	86.4	55.1	47.7	43.2	34.3	29.8	29.8
65°	15135.5	8253.7	198.1	116.2	67.1	43.2	35.8	34.3	22.4	17.9	16.4
67.5°	14040.7	7115.6	151.9	99.8	52.2	32.8	26.8	28.3	11.9	7.5	6.0
68°	13643.0	6826.7	143.0	98.3	49.2	31.3	25.3	28.3	10.4	6.0	4.5
70°	11502.5	5430.9	114.7	95.3	43.2	23.8	20.9	28.3	8.9	4.5	3.0
72.5°	7357.0	3151.9	84.9	76.0	32.8	17.9	13.4	25.3	8.9	3.0	1.5
75°	3131.1	977.2	58.1	53.7	19.4	13.4	8.9	16.4	6.0	1.5	0.0
77.5°	659.9	220.5	34.3	32.8	13.4	8.9	6.0	4.5	1.5	0.0	0.0
80°	169.8	64.1	17.9	16.4	7.5	4.5	3.0	0.0	0.0	0.0	0.0
82.5°	53.7	25.3	10.4	7.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.8	14.9	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.9	4.5	1.5	0.0	0.0	0.0	0.0	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)