

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: P382632

Luminaire Tested: **GLEON-SA0B-735-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382632  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0B-735-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 800mA 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: 43643.9 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

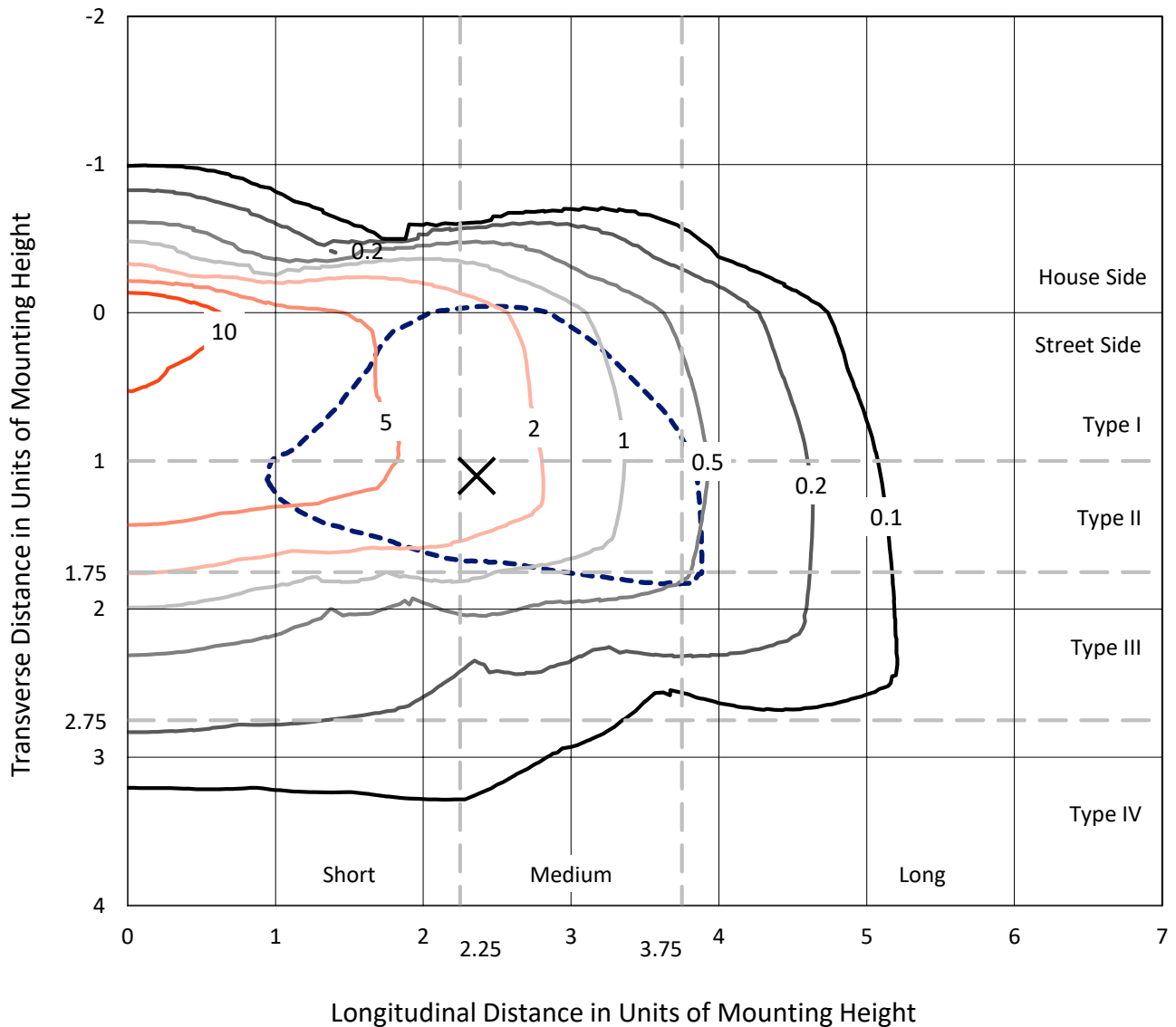
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

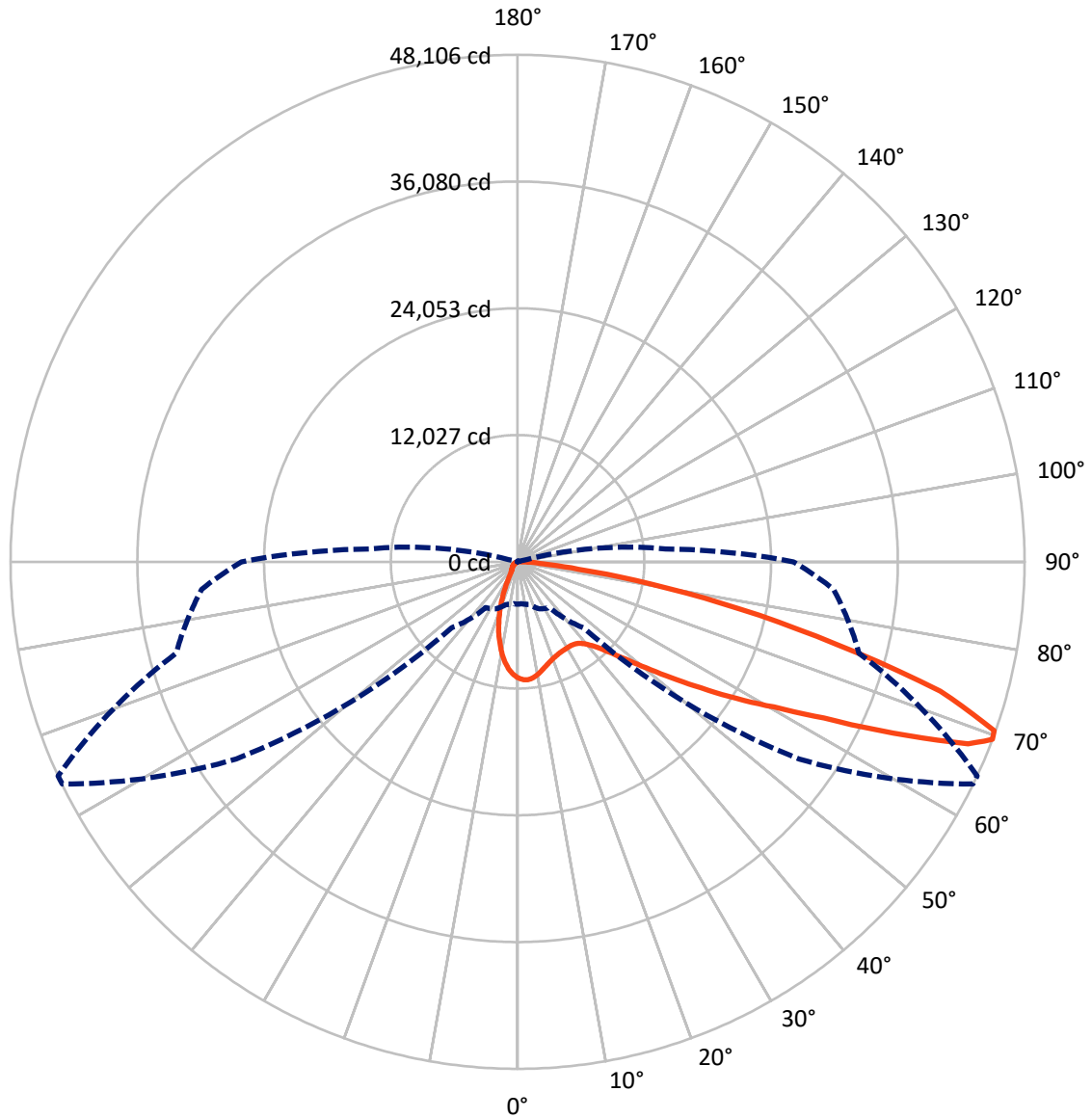
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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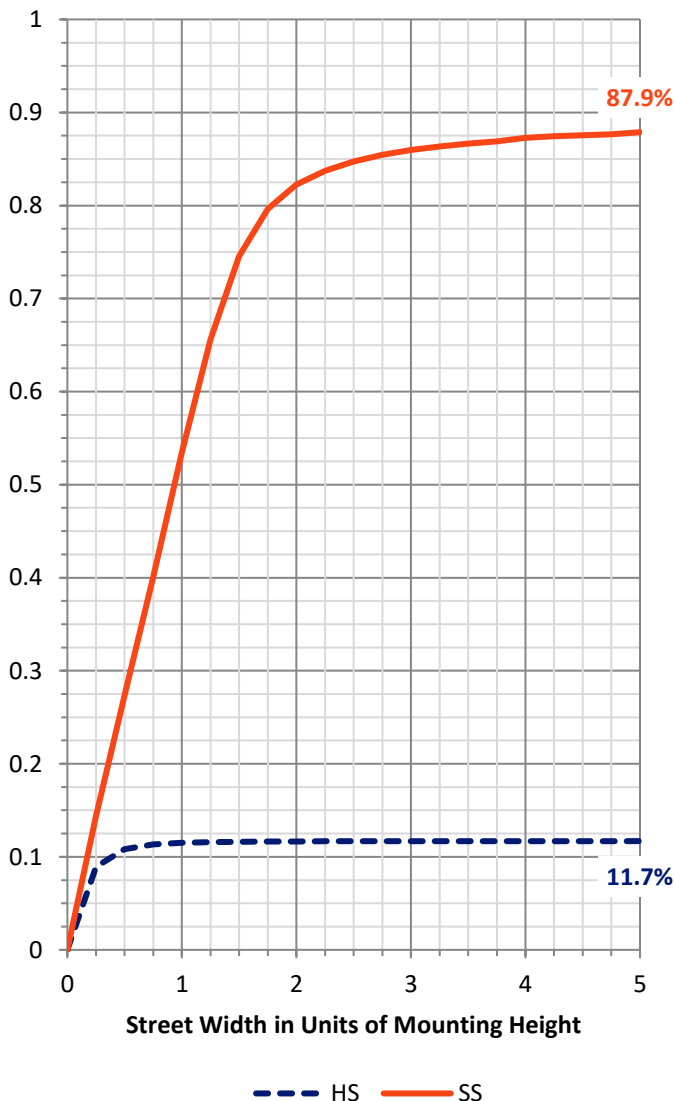
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5144.6	0.0	5144.6
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	38499.3	0.0	38499.3
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	43643.9	0.0	43643.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	922.2	2.1
10°-20°	2018.8	4.6
20°-30°	2796.2	6.4
30°-40°	3898.7	8.9
40°-50°	6059.9	13.9
50°-60°	9728.5	22.3
60°-70°	11004.6	25.2
70°-80°	6463.1	14.8
80°-90°	751.8	1.7
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°	43643.9	100.0
0°-180°	43643.9	100.0

**Coefficient of Utilization**

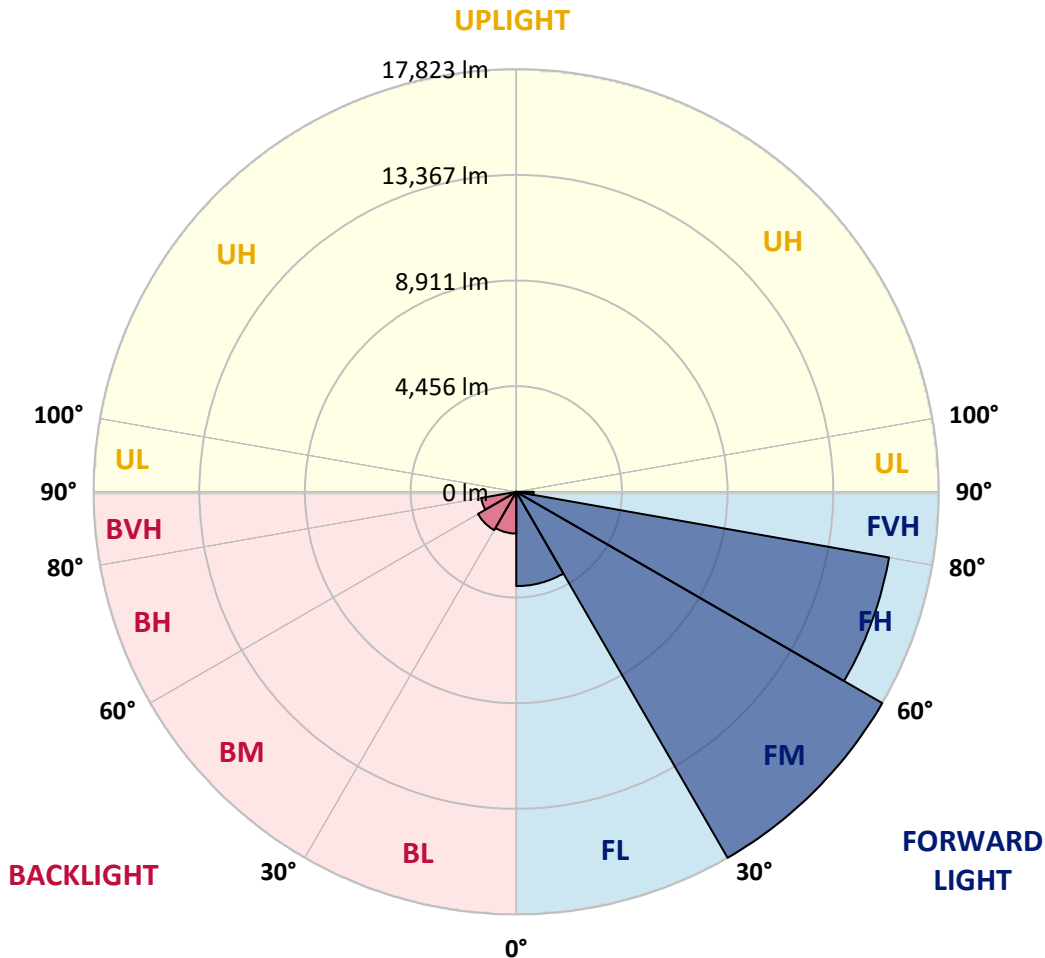


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3977.0	9.1			
FM (30°-60°)	17822.9	40.8			
FH (60°-80°)	15964.5	36.6			G5
FVH (80°-90°)	734.9	1.7			G4/750
BL (0°-30°)	1760.3	4.0	B3/2500		
BM (30°-60°)	1864.3	4.3	B2/2500		
BH (60°-80°)	1503.2	3.4	B3/2500		G3/2500
BVH (80°-90°)	16.9	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	11028.9	11028.9	11028.9	11028.9	11028.9	11028.9	11028.9	11028.9	11028.9	11028.9	11028.9
2.5°	11126.8	11099.1	11121.3	11169.3	11193.3	11193.3	11211.7	11189.6	11196.9	11143.4	11065.9
5°	10430.5	10388.1	10449.0	10583.9	10750.1	10892.2	11102.7	11213.6	11224.7	11226.5	11136.0
7.5°	9680.7	9642.0	9732.4	9891.3	10105.5	10369.6	10737.1	11058.4	11076.9	11250.5	11184.1
10°	9071.3	9043.7	9148.9	9318.8	9570.0	9865.5	10316.1	10763.0	10816.5	11200.6	11176.6
12.5°	8587.5	8565.3	8665.1	8860.8	9117.5	9444.4	9915.3	10434.3	10506.3	11088.0	11139.7
15°	8234.7	8231.1	8314.2	8502.5	8786.9	9091.6	9573.6	10129.6	10212.6	10966.1	11134.1
17.5°	8050.1	8055.6	8116.6	8277.2	8521.0	8823.9	9285.6	9872.8	9963.3	10857.2	11161.9
20°	8031.6	8037.1	8070.4	8160.8	8358.5	8626.2	9051.0	9656.8	9751.0	10775.9	11206.1
22.5°	8194.1	8190.4	8199.7	8190.4	8301.2	8504.4	8895.9	9490.5	9599.5	10722.3	11241.3
25°	8506.2	8500.7	8497.0	8428.6	8354.8	8463.8	8831.3	9396.3	9499.7	10683.5	11261.6
27.5°	8940.2	8936.5	8930.9	8818.3	8596.7	8528.4	8838.6	9361.3	9448.0	10652.2	11257.9
30°	9510.8	9536.7	9529.4	9372.4	9027.0	8726.0	8916.2	9342.8	9418.5	10591.2	11219.1
32.5°	10181.3	10233.0	10273.6	10105.5	9673.4	9117.5	9095.4	9363.1	9418.5	10545.0	11148.9
35°	10877.5	10943.9	11093.5	11034.5	10465.7	9706.6	9403.8	9485.0	9531.1	10570.9	11115.7
37.5°	11562.6	11642.0	11967.0	12138.8	11503.5	10486.0	9883.9	9786.0	9810.0	10727.9	11152.7
40°	12358.6	12478.6	12971.7	13248.7	12742.7	11529.4	10602.3	10303.1	10312.3	11073.2	11324.4
42.5°	13403.9	13527.6	14061.3	14495.3	14138.8	12848.0	11577.4	11093.5	11084.3	11719.6	11728.8
45°	14678.1	14807.4	15359.5	15841.6	15680.9	14410.3	12825.8	12247.8	12236.7	12739.0	12495.2
47.5°	16122.3	16249.7	16742.8	17239.6	17413.1	16234.9	14415.9	13823.0	13797.2	14155.5	13679.0
50°	17361.4	17444.5	17898.8	18567.4	19350.5	18476.9	16393.7	15823.1	15795.4	16037.3	15416.8
52.5°	17812.1	17860.1	18321.8	19258.1	21212.0	21513.0	18992.2	18257.1	18236.8	18342.1	17730.8
55°	16899.8	16986.6	17553.5	18942.3	22220.3	24944.3	22272.0	21271.1	21117.8	20890.6	20150.1
57.5°	14414.0	14552.5	15162.0	17008.8	21749.4	27666.4	27092.1	24680.2	24454.9	23066.1	22116.9
60°	10799.9	10969.8	11475.8	13468.5	19235.9	28636.0	32359.1	28479.0	27971.1	24798.4	23924.8
62.5°	7411.1	7496.1	7839.5	9137.8	14166.6	27047.8	36765.5	33566.8	32639.8	26682.1	25880.6
65°	5660.4	5689.9	5830.3	6277.1	8436.0	21971.0	38518.0	40279.8	39158.9	28935.2	27910.2
67.5°	4561.5	4537.5	4731.4	5370.4	5649.3	13403.9	36473.6	46630.9	46106.4	31947.2	29952.7
69°	4022.2	3989.0	4186.7	4929.0	5305.7	8860.8	32606.5	48073.3	48106.4	33537.3	30093.1
70°	3619.6	3641.8	3837.6	4666.8	5189.4	6954.9	28913.0	47705.7	47968.0	34132.0	29251.0
72.5°	2417.5	2476.5	2869.9	3874.5	4989.9	5263.2	17457.5	40937.3	41945.6	32793.1	25095.7
75°	1362.9	1407.2	1874.5	2921.6	4701.9	5012.1	9220.9	30159.6	31134.6	27422.6	19352.2
77.5°	668.6	692.5	1060.0	1885.5	3931.8	4775.8	5230.1	20486.2	21599.8	17898.8	10945.8
80°	282.5	295.5	530.1	1163.5	2810.8	4557.8	3883.7	12607.8	12746.4	7012.2	2916.0
82.5°	109.0	112.6	223.5	725.8	1785.9	3553.2	3248.5	5978.0	5833.9	1320.5	664.8
85°	12.9	14.8	81.2	435.9	993.6	1828.3	2639.1	2576.3	2384.2	262.2	341.7
87.5°	0.0	0.0	5.5	132.9	295.5	856.9	1372.2	1069.3	964.1	85.0	177.3
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°	11028.9	11028.9	11028.9	11028.9	11028.9	11028.9	11028.9	11028.9	11028.9	11028.9	11028.9
2.5°	11001.2	10982.8	10883.0	10739.0	10602.3	10432.4	10269.8	10172.0	10094.4	10042.7	10103.7
5°	11030.7	10949.5	10646.7	10258.8	9878.3	9449.9	9051.0	8713.0	8580.1	8432.4	8498.8
7.5°	11021.5	10868.3	10323.4	9632.8	8934.7	8212.6	7529.2	7002.9	6729.6	6461.9	6530.1
10°	10975.3	10716.8	9891.3	8868.1	7823.0	6785.0	5815.5	5078.6	4666.8	4293.8	4347.3
12.5°	10873.8	10513.6	9381.6	7992.8	6594.8	5226.4	4090.6	3146.9	2640.8	2417.5	2445.1
15°	10812.8	10316.1	8842.3	7106.4	5283.6	3640.0	2500.6	1859.7	1628.8	1554.9	1564.3
17.5°	10783.3	10125.8	8284.6	6092.5	3942.9	2317.7	1616.0	1425.7	1375.8	1362.9	1366.6
20°	10753.7	9933.7	7710.2	5089.7	2716.6	1558.7	1327.8	1272.4	1254.0	1237.4	1241.0
22.5°	10703.9	9749.1	7093.5	4073.9	1832.0	1265.0	1196.7	1143.2	1104.3	1084.0	1087.8
25°	10642.9	9555.2	6463.7	3034.2	1337.1	1128.4	1063.7	988.0	941.9	904.9	906.8
27.5°	10545.0	9317.0	5813.6	2208.7	1122.8	1010.2	923.3	840.3	762.8	720.3	720.3
30°	10408.4	9047.3	5091.6	1580.8	1006.4	893.8	788.6	685.2	602.1	563.3	559.6
32.5°	10257.0	8766.6	4362.1	1198.5	914.1	784.9	664.8	555.9	482.0	450.6	448.7
35°	10127.7	8463.8	3634.4	1004.7	821.8	679.7	548.5	456.2	397.0	371.2	369.4
37.5°	10044.6	8160.8	2925.2	897.5	738.7	581.8	459.8	376.7	334.2	313.9	312.1
40°	10031.6	7935.6	2277.1	816.3	661.1	494.9	384.2	319.5	280.7	258.5	256.7
42.5°	10199.7	7806.3	1747.0	747.9	581.8	419.2	326.9	273.3	232.7	210.5	208.7
45°	10641.1	7846.9	1344.4	687.0	502.3	354.5	277.0	227.1	190.2	173.6	169.9
47.5°	11446.3	8127.7	1069.3	626.1	426.6	301.0	236.4	188.4	157.0	140.4	138.5
50°	12879.4	8786.9	893.8	559.6	356.4	256.7	195.7	153.2	127.4	112.6	110.8
52.5°	14781.5	9961.5	797.8	494.9	295.5	217.9	160.7	121.8	99.8	88.7	86.8
55°	16879.5	11383.5	735.0	424.8	241.9	181.0	127.4	96.0	77.6	68.4	64.6
57.5°	18927.6	12615.3	675.9	356.4	201.3	147.7	101.5	75.7	60.9	51.7	49.8
60°	20809.4	13747.3	607.6	286.3	164.3	116.4	79.4	59.1	48.0	38.8	38.8
62.5°	22824.2	14622.7	513.4	223.5	134.8	88.7	64.6	53.6	38.8	33.3	31.4
65°	24959.0	15272.8	402.6	173.6	105.3	66.5	53.6	55.4	31.4	24.0	22.2
67.5°	26536.3	15143.5	297.3	136.7	81.2	51.7	51.7	59.1	27.7	18.4	16.6
69°	26189.1	14092.7	249.3	118.2	70.1	44.3	48.0	59.1	25.9	16.6	14.8
70°	25182.5	12929.2	219.8	105.3	62.8	40.6	46.2	57.3	24.0	16.6	14.8
72.5°	20971.9	9738.0	171.8	79.4	49.8	33.3	38.8	49.8	24.0	16.6	12.9
75°	15775.1	6232.8	131.2	57.3	36.9	25.9	29.5	36.9	24.0	14.8	12.9
77.5°	8583.7	2247.5	94.2	38.8	25.9	20.3	20.3	27.7	22.2	11.1	7.4
80°	2206.9	565.1	59.1	25.9	20.3	14.8	12.9	18.4	12.9	1.9	0.0
82.5°	544.8	127.4	31.4	18.4	14.8	5.5	5.5	9.2	5.5	0.0	0.0
85°	299.2	62.8	20.3	12.9	7.4	0.0	0.0	1.9	0.0	0.0	0.0
87.5°	153.2	18.4	5.5	3.7	1.9	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)