

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: P382660

Luminaire Tested: **GLEON-SA0C-735-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382660  
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-SA0C-735-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 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: 54018.6 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

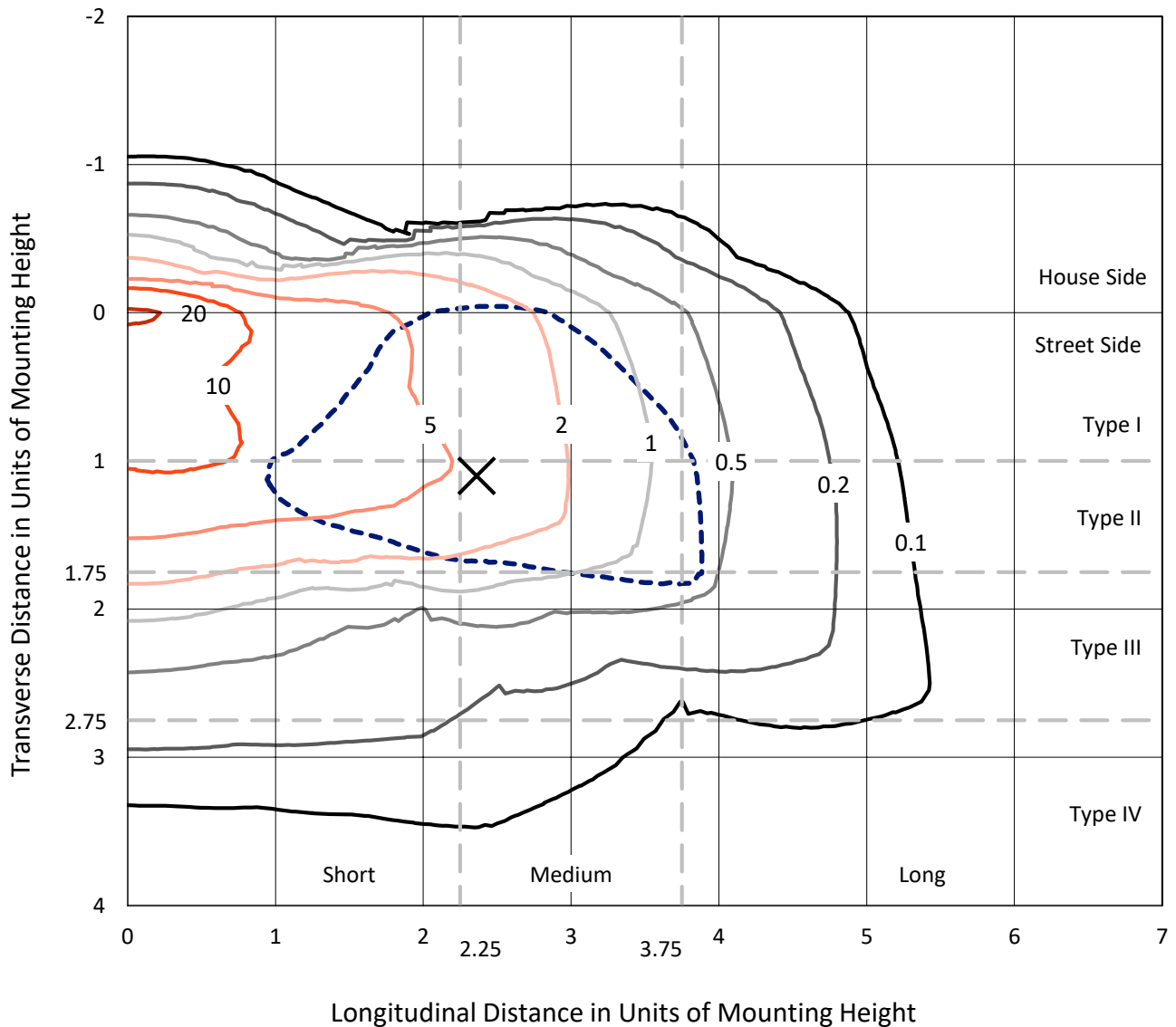
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

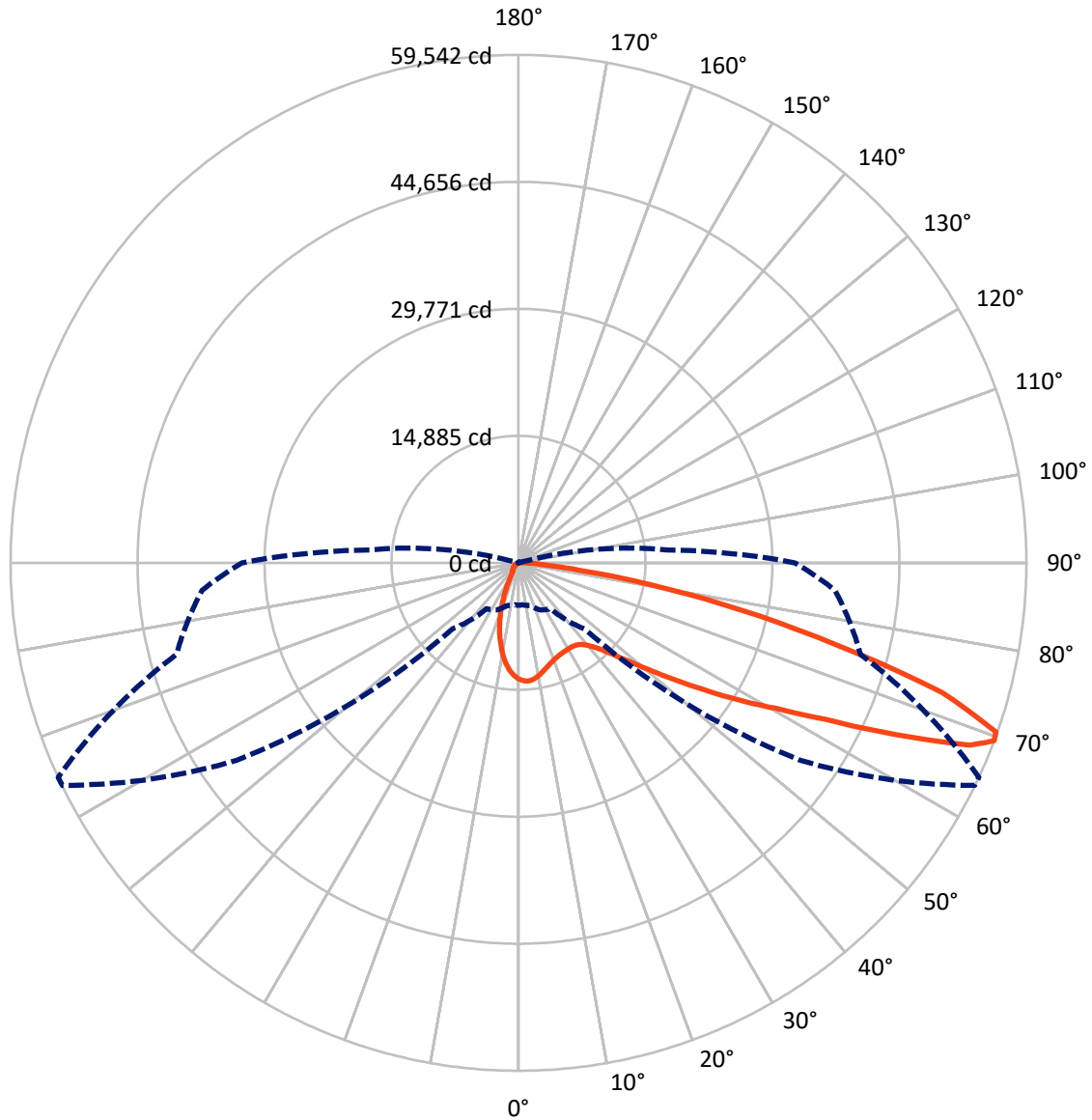
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 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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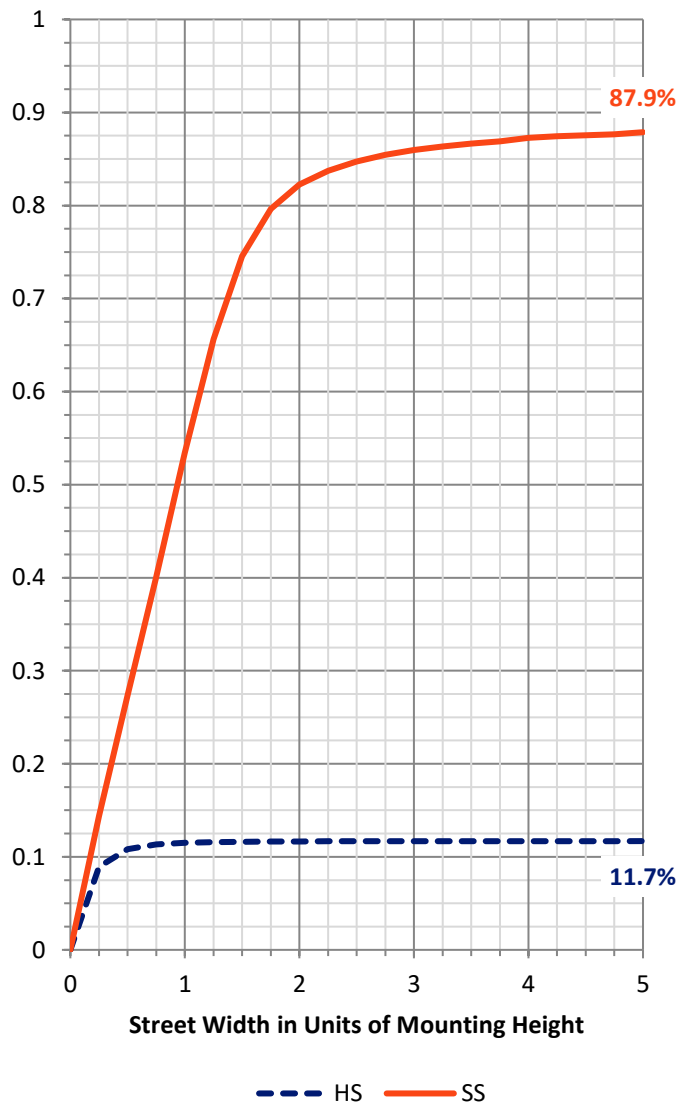
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6367.5	0.0	6367.5
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	47651.1	0.0	47651.1
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	54018.6	0.0	54018.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1141.5	2.1
10°-20°	2498.7	4.6
20°-30°	3460.8	6.4
30°-40°	4825.5	8.9
40°-50°	7500.4	13.9
50°-60°	12041.1	22.3
60°-70°	13620.5	25.2
70°-80°	7999.4	14.8
80°-90°	930.6	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°	54018.6	100.0
0°-180°	54018.6	100.0

**Coefficient of Utilization**

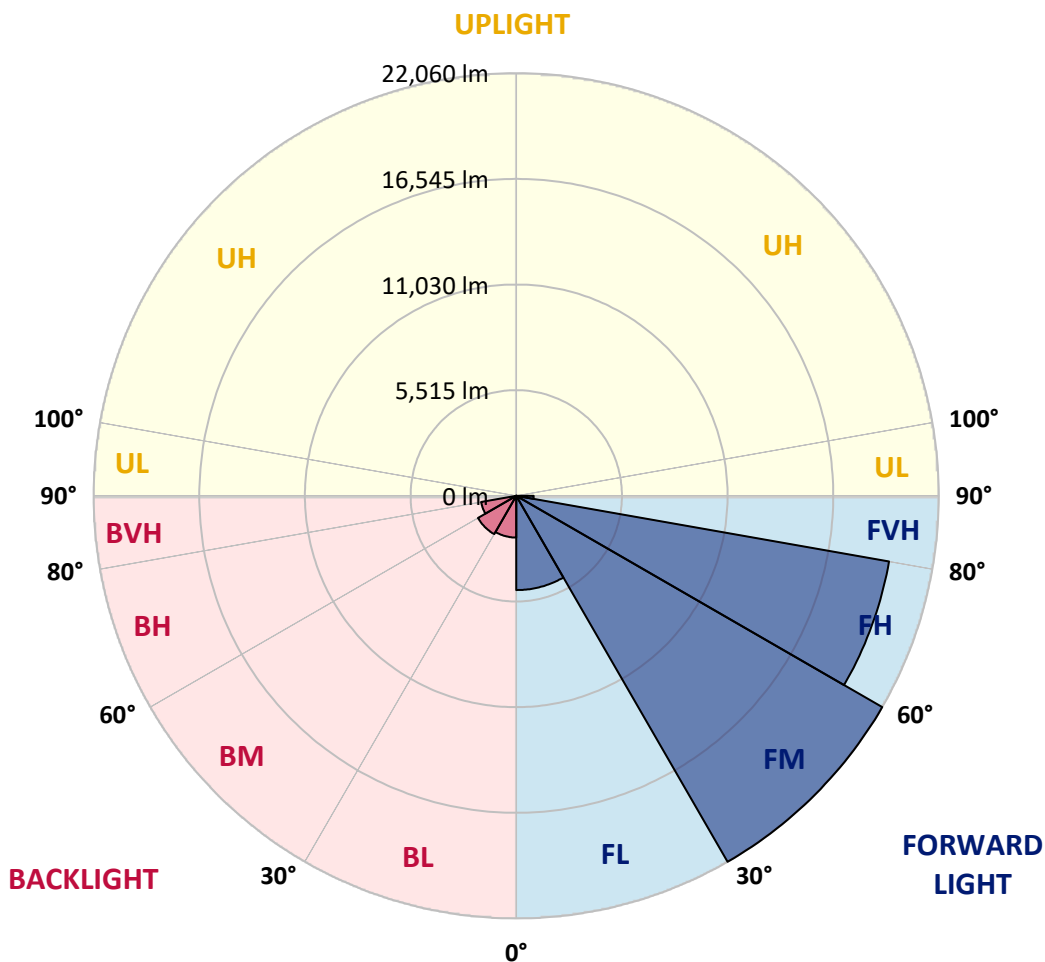


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4922.4	9.1			
FM (30°-60°)	22059.6	40.8			
FH (60°-80°)	19759.5	36.6			G5
FVH (80°-90°)	909.6	1.7			G5
BL (0°-30°)	2178.7	4.0	B3/2500		
BM (30°-60°)	2307.4	4.3	B2/2500		
BH (60°-80°)	1860.5	3.4	B3/2500		G3/2500
BVH (80°-90°)	20.9	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°	13650.6	13650.6	13650.6	13650.6	13650.6	13650.6	13650.6	13650.6	13650.6	13650.6	13650.6
2.5°	13771.7	13737.4	13764.9	13824.4	13854.1	13854.1	13876.9	13849.4	13858.6	13792.3	13696.3
5°	12910.0	12857.4	12932.9	13099.7	13305.5	13481.5	13742.0	13879.1	13892.9	13895.2	13783.2
7.5°	11981.9	11934.0	12046.0	12242.6	12507.7	12834.6	13289.5	13687.1	13710.1	13924.9	13842.6
10°	11227.7	11193.4	11323.7	11534.0	11844.8	12210.5	12768.3	13321.4	13387.7	13863.2	13833.5
12.5°	10628.8	10601.4	10724.8	10967.1	11284.9	11689.4	12272.3	12914.6	13003.8	13723.7	13787.7
15°	10192.2	10187.7	10290.5	10523.7	10875.6	11252.8	11849.4	12537.4	12640.3	13572.8	13780.8
17.5°	9963.6	9970.5	10045.9	10244.8	10546.5	10921.4	11492.8	12219.7	12331.7	13438.0	13815.1
20°	9940.8	9947.6	9988.8	10100.8	10345.4	10676.8	11202.5	11952.2	12068.9	13337.4	13870.0
22.5°	10141.9	10137.4	10148.8	10137.4	10274.5	10525.9	11010.5	11746.5	11881.4	13271.2	13913.4
25°	10528.3	10521.4	10516.8	10432.2	10340.8	10475.6	10930.5	11630.0	11758.0	13223.1	13938.6
27.5°	11065.4	11060.8	11053.9	10914.6	10640.2	10555.6	10939.6	11586.6	11694.0	13184.3	13934.0
30°	11771.7	11803.7	11794.5	11600.3	11172.8	10800.3	11035.7	11563.7	11657.4	13108.8	13886.0
32.5°	12601.4	12665.4	12715.7	12507.7	11972.8	11284.9	11257.4	11588.8	11657.4	13051.7	13799.2
35°	13463.2	13545.4	13730.5	13657.4	12953.4	12014.0	11639.1	11739.7	11796.8	13083.7	13758.0
37.5°	14311.2	14409.5	14811.8	15024.4	14238.1	12978.6	12233.5	12112.3	12142.0	13278.0	13803.8
40°	15296.4	15444.9	16055.2	16398.1	15771.8	14270.0	13122.6	12752.3	12763.7	13705.5	14016.3
42.5°	16590.1	16743.3	17403.8	17941.0	17499.8	15902.1	14329.4	13730.5	13719.2	14505.5	14516.9
45°	18167.2	18327.3	19010.7	19607.3	19408.4	17835.8	15874.6	15159.2	15145.5	15767.2	15465.5
47.5°	19954.8	20112.5	20722.7	21337.7	21552.5	20094.1	17842.7	17109.0	17076.9	17520.4	16930.7
50°	21488.5	21591.3	22153.6	22981.1	23950.3	22869.1	20290.8	19584.4	19550.1	19849.6	19081.5
52.5°	22046.2	22105.6	22677.0	23836.0	26254.3	26626.9	23506.8	22597.1	22572.0	22702.2	21945.7
55°	20917.1	21024.5	21726.2	23445.1	27502.4	30873.8	27566.4	26327.4	26137.7	25856.6	24940.0
57.5°	17840.4	18011.8	18766.1	21051.9	26919.5	34243.0	33532.2	30546.9	30268.1	28549.2	27374.4
60°	13367.1	13577.4	14203.8	16670.0	23808.5	35443.1	40051.1	35248.8	34620.2	30693.3	29612.1
62.5°	9172.8	9277.9	9703.1	11310.0	17534.1	33477.3	45505.0	41546.1	40398.6	33024.8	32032.8
65°	7005.9	7042.4	7216.1	7769.3	10441.3	27193.7	47674.2	49854.8	48467.4	35813.3	34544.8
67.5°	5645.8	5616.1	5856.2	6647.0	6992.2	16590.1	45143.8	57715.6	57066.4	39541.5	37072.8
69°	4978.4	4937.3	5181.8	6100.7	6567.0	10967.1	40357.4	59500.7	59541.9	41509.5	37246.5
70°	4480.1	4507.6	4749.8	5776.2	6423.0	8608.2	35786.0	59045.9	59370.5	42245.5	36204.2
72.5°	2992.0	3065.3	3552.1	4795.5	6176.2	6514.4	21607.3	50668.6	51916.5	40588.4	31061.2
75°	1686.9	1741.7	2320.0	3616.1	5819.6	6203.5	11412.9	37328.8	38535.7	33941.3	23952.5
77.5°	827.4	857.1	1312.0	2333.8	4866.4	5910.9	6473.3	25356.0	26734.3	22153.6	13547.8
80°	349.7	365.7	656.0	1440.0	3479.0	5641.3	4807.0	15604.9	15776.3	8679.0	3609.2
82.5°	134.9	139.5	276.6	898.3	2210.4	4397.8	4020.7	7399.0	7220.7	1634.3	822.8
85°	16.0	18.3	100.6	539.5	1229.7	2262.9	3266.4	3188.7	2951.0	324.6	422.8
87.5°	0.0	0.0	6.9	164.6	365.7	1060.6	1698.3	1323.4	1193.1	105.2	219.5
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°	13650.6	13650.6	13650.6	13650.6	13650.6	13650.6	13650.6	13650.6	13650.6	13650.6	13650.6
2.5°	13616.3	13593.4	13470.0	13291.7	13122.6	12912.3	12711.2	12590.0	12494.0	12430.0	12505.5
5°	13652.9	13552.3	13177.4	12697.5	12226.6	11696.2	11202.5	10784.2	10619.6	10436.8	10519.1
7.5°	13641.5	13451.7	12777.4	11922.6	11058.5	10164.8	9319.1	8667.6	8329.3	7997.9	8082.5
10°	13584.3	13264.3	12242.6	10976.2	9682.5	8397.9	7197.9	6285.9	5776.2	5314.4	5380.7
12.5°	13458.6	13012.9	11611.6	9892.8	8162.5	6468.8	5063.0	3895.0	3268.6	2992.0	3026.3
15°	13383.2	12768.3	10944.3	8795.6	6539.6	4505.2	3094.9	2301.8	2016.1	1924.6	1936.0
17.5°	13346.6	12532.9	10253.9	7540.8	4880.1	2868.6	2000.0	1764.6	1702.9	1686.9	1691.5
20°	13310.0	12295.1	9543.1	6299.6	3362.3	1929.1	1643.4	1574.9	1552.1	1531.5	1536.0
22.5°	13248.3	12066.5	8779.6	5042.4	2267.5	1565.7	1481.2	1414.9	1366.9	1341.7	1346.3
25°	13172.8	11826.6	8000.2	3755.5	1654.9	1396.6	1316.6	1222.8	1165.7	1120.0	1122.3
27.5°	13051.7	11531.7	7195.6	2733.8	1389.8	1250.3	1142.9	1040.0	944.0	891.5	891.5
30°	12882.6	11197.9	6301.8	1956.6	1245.8	1106.3	976.0	848.0	745.1	697.2	692.6
32.5°	12695.1	10850.6	5399.0	1483.5	1131.5	971.4	822.8	688.0	596.6	557.7	555.5
35°	12535.1	10475.6	4498.4	1243.4	1017.2	841.2	678.9	564.6	491.5	459.4	457.1
37.5°	12432.2	10100.8	3620.6	1110.9	914.3	720.0	569.2	466.3	413.7	388.5	386.3
40°	12416.3	9822.0	2818.3	1010.3	818.3	612.6	475.5	395.4	347.5	320.0	317.8
42.5°	12624.2	9661.9	2162.3	925.8	720.0	518.9	404.6	338.3	288.0	260.6	258.3
45°	13170.6	9712.2	1664.0	850.3	621.7	438.9	342.9	281.1	235.4	214.9	210.3
47.5°	14167.2	10059.7	1323.4	774.9	528.0	372.6	292.6	233.2	194.3	173.7	171.4
50°	15940.9	10875.6	1106.3	692.6	441.2	317.8	242.3	189.8	157.7	139.5	137.1
52.5°	18295.2	12329.4	987.4	612.6	365.7	269.7	198.9	150.8	123.4	109.7	107.4
55°	20891.9	14089.5	909.7	525.8	299.4	224.0	157.7	118.9	96.0	84.6	80.0
57.5°	23426.8	15614.0	836.6	441.2	249.2	182.9	125.8	93.7	75.5	64.0	61.8
60°	25756.0	17015.3	752.0	354.3	203.4	144.0	98.3	73.1	59.4	48.0	48.0
62.5°	28249.7	18098.7	635.4	276.6	166.8	109.7	80.0	66.3	48.0	41.2	38.8
65°	30892.1	18903.2	498.3	214.9	130.3	82.3	66.3	68.6	38.8	29.7	27.4
67.5°	32844.1	18743.3	368.1	169.2	100.6	64.0	64.0	73.1	34.3	22.8	20.6
69°	32414.4	17442.7	308.6	146.3	86.8	54.9	59.4	73.1	32.0	20.6	18.3
70°	31168.7	16002.7	272.0	130.3	77.7	50.3	57.1	70.9	29.7	20.6	18.3
72.5°	25957.1	12052.8	212.6	98.3	61.8	41.2	48.0	61.8	29.7	20.6	16.0
75°	19525.1	7714.4	162.3	70.9	45.7	32.0	36.6	45.7	29.7	18.3	16.0
77.5°	10624.2	2781.8	116.5	48.0	32.0	25.2	25.2	34.3	27.4	13.7	9.1
80°	2731.5	699.4	73.1	32.0	25.2	18.3	16.0	22.8	16.0	2.3	0.0
82.5°	674.3	157.7	38.8	22.8	18.3	6.9	6.9	11.5	6.9	0.0	0.0
85°	370.3	77.7	25.2	16.0	9.1	0.0	0.0	2.3	0.0	0.0	0.0
87.5°	189.8	22.8	6.9	4.6	2.3	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)