

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: P382665

Luminaire Tested: **GLEON-SA0C-735-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382665  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
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-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 61970.3 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

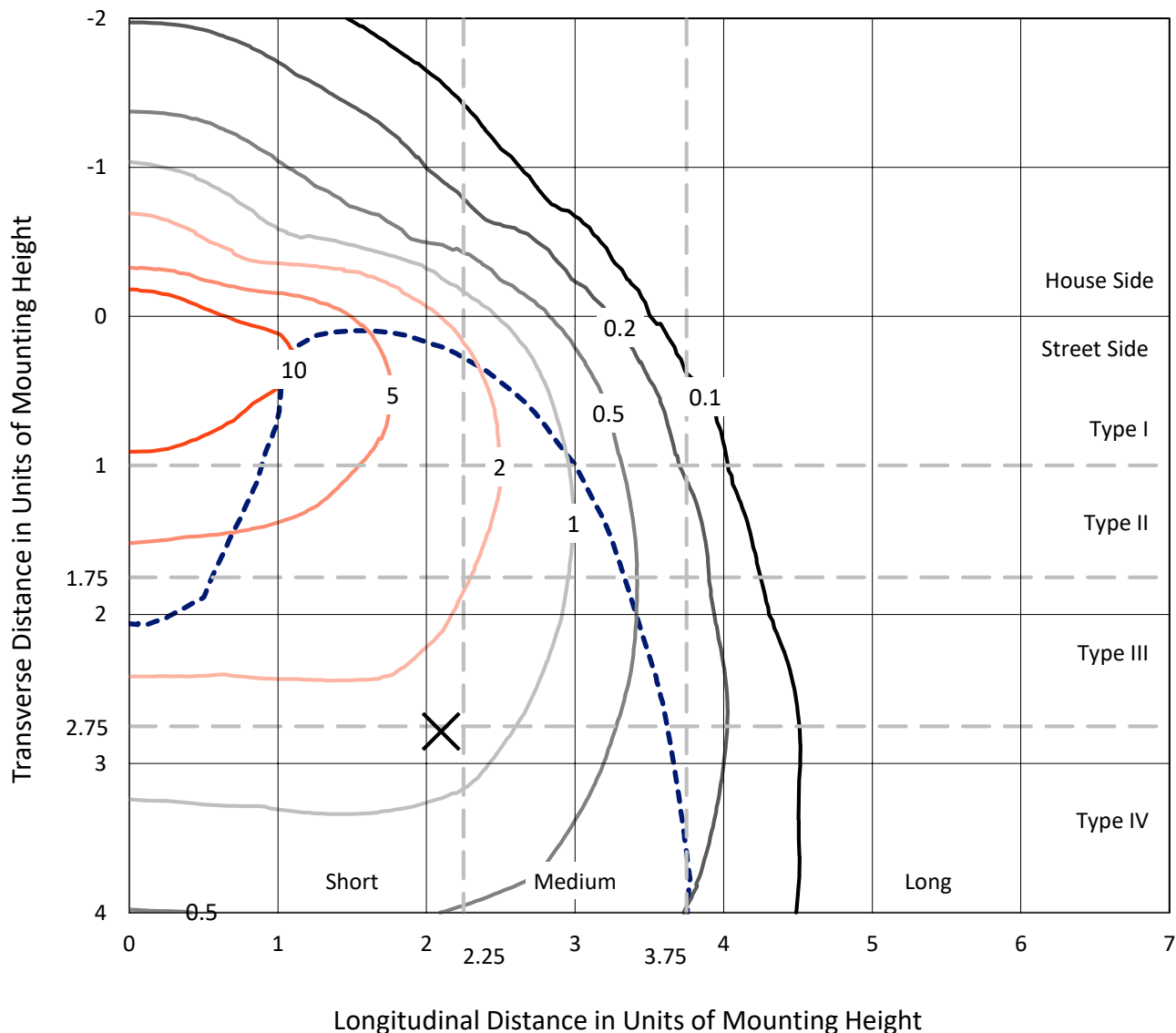
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

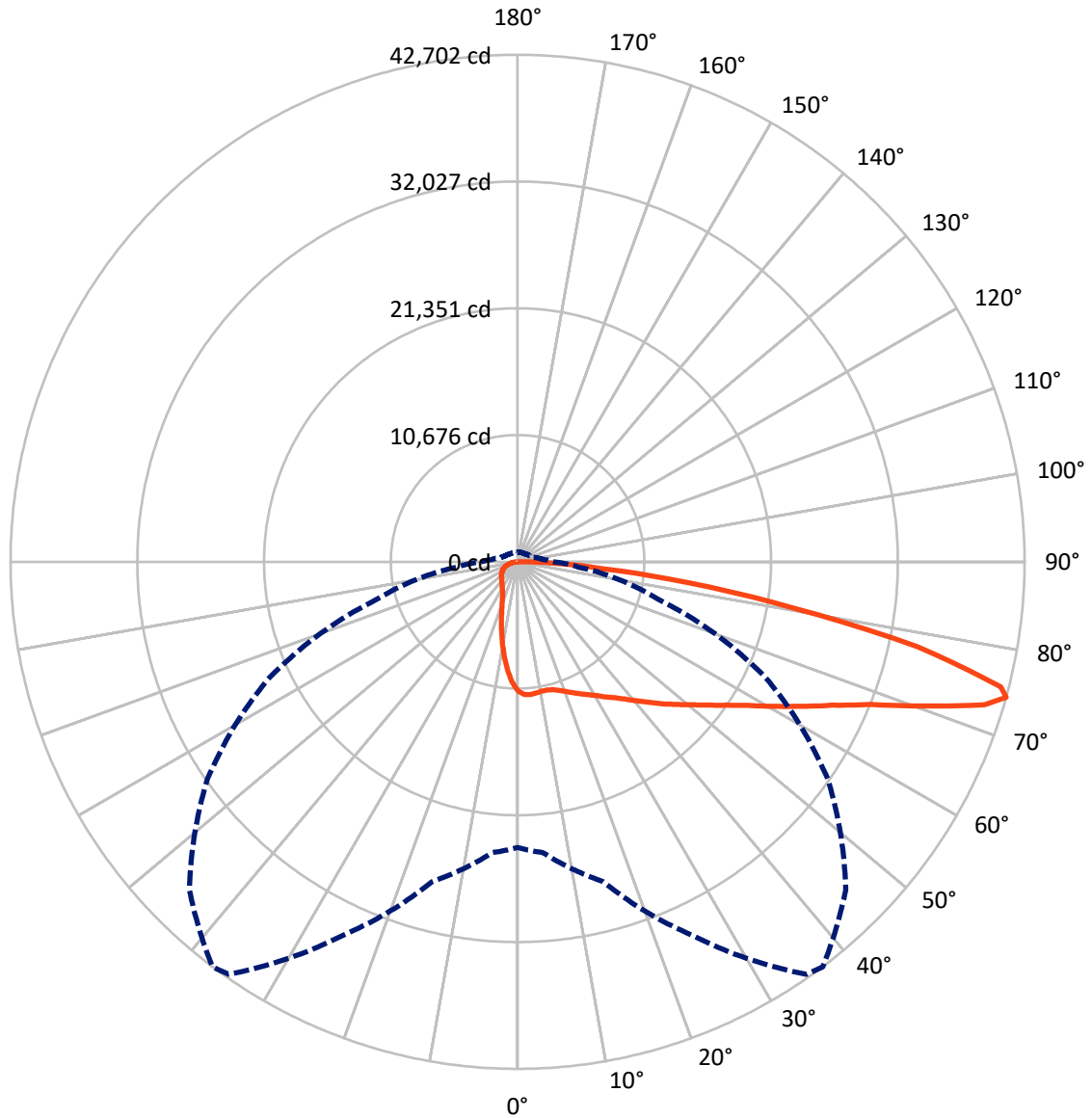
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical



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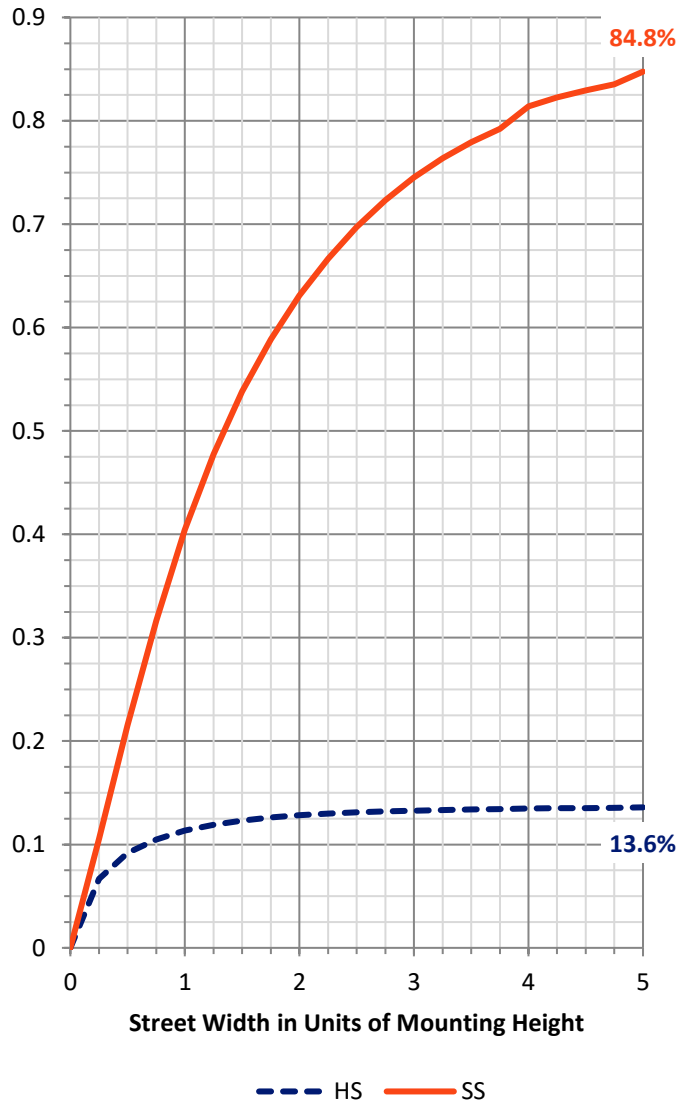
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8526.7	0.0	8526.7
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	53443.6	0.0	53443.6
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	61970.3	0.0	61970.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	961.5	1.6
10°-20°	2464.7	4.0
20°-30°	3797.6	6.1
30°-40°	5522.2	8.9
40°-50°	8127.8	13.1
50°-60°	11414.0	18.4
60°-70°	14446.6	23.3
70°-80°	12720.8	20.5
80°-90°	2515.2	4.1
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°	61970.3	100.0
0°-180°	61970.3	100.0

**Coefficient of Utilization**



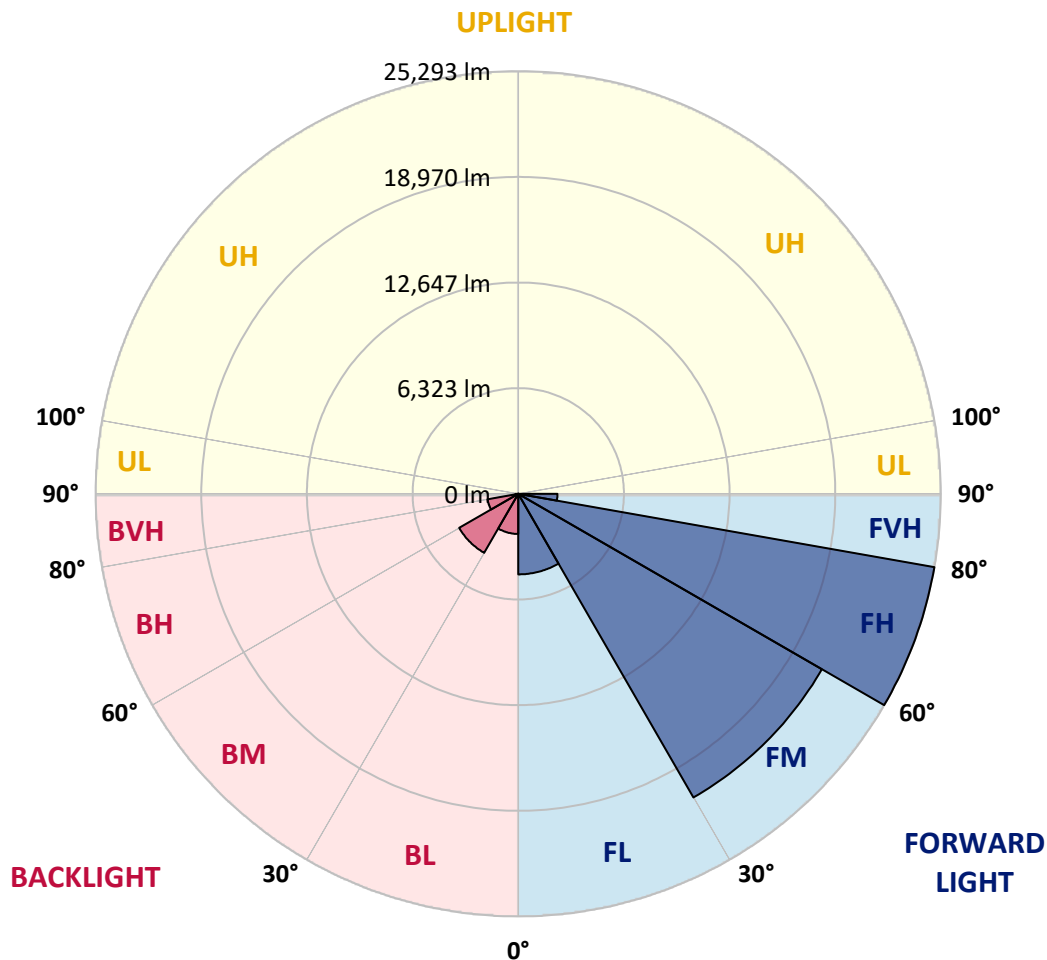
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4822.0	7.8			
FM (30°-60°)	20983.6	33.9			
FH (60°-80°)	25293.1	40.8			G5
FVH (80°-90°)	2344.9	3.8			G5
BL (0°-30°)	2401.8	3.9	B3/2500		
BM (30°-60°)	4080.3	6.6	B3/5000		
BH (60°-80°)	1874.3	3.0	B3/2500		G3/2500
BVH (80°-90°)	170.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	10918.9	10918.9	10918.9	10918.9	10918.9	10918.9	10918.9	10918.9	10918.9	10918.9	10918.9
2.5°	11292.2	11294.4	11292.2	11274.7	11233.3	11198.3	11170.0	11128.5	11036.8	10966.9	10862.1
5°	11399.2	11386.0	11377.4	11344.6	11279.1	11239.8	11185.3	11106.7	10956.0	10816.3	10646.1
7.5°	11349.0	11333.7	11314.0	11274.7	11200.6	11167.8	11091.4	10988.8	10807.6	10624.2	10379.8
10°	11193.9	11189.6	11180.9	11172.1	11108.8	11082.6	11012.8	10903.7	10724.6	10502.0	10216.0
12.5°	11021.5	11032.4	11067.3	11113.2	11084.9	11071.7	11028.0	10953.9	10770.5	10530.4	10185.4
15°	10912.3	10942.9	11036.8	11156.9	11180.9	11176.5	11165.6	11117.6	10923.3	10657.0	10255.3
17.5°	10875.3	10925.5	11104.5	11303.1	11373.0	11388.3	11392.6	11309.6	11093.5	10811.9	10327.3
20°	10942.9	11006.2	11268.2	11541.0	11652.4	11661.1	11641.5	11497.3	11255.1	10945.1	10366.6
22.5°	11148.1	11204.8	11532.3	11840.2	11966.8	11979.8	11920.9	11702.6	11425.3	11102.3	10421.2
25°	11543.3	11613.0	11940.5	12248.4	12313.8	12316.0	12230.8	11960.1	11648.0	11322.8	10539.1
27.5°	12058.4	12128.3	12422.9	12724.2	12689.3	12669.6	12553.9	12283.2	11938.3	11626.2	10748.7
30°	12632.5	12708.9	12988.3	13202.3	13119.3	13080.0	12986.1	12636.9	12342.2	12040.9	11069.6
32.5°	13226.3	13296.1	13540.6	13686.9	13582.1	13564.6	13422.8	13104.0	12868.3	12674.0	11589.1
35°	13835.3	13885.5	14125.6	14208.5	14068.9	14064.5	14025.2	13732.7	13584.3	13676.0	12344.4
37.5°	14457.4	14470.5	14675.7	14680.1	14638.6	14656.0	14697.6	14514.2	14555.6	14841.6	13326.6
40°	15011.9	15046.8	15195.2	15241.1	15313.2	15374.3	15581.6	15461.5	15782.5	16288.9	14549.1
42.5°	15422.2	15490.0	15727.9	15845.7	16079.3	16175.4	16467.9	16579.2	17225.3	17985.0	16003.0
45°	15769.3	15874.1	16256.2	16498.5	16893.5	17061.7	17480.8	17854.0	18856.0	19825.2	17533.1
47.5°	16144.8	16278.0	16756.0	17218.8	17755.8	17945.7	18707.5	19266.4	20595.8	21676.3	18976.1
50°	16697.1	16799.7	17266.8	17993.8	18663.9	18908.4	19962.7	20763.8	22363.9	23440.1	20226.9
52.5°	17467.6	17428.3	17823.5	18842.9	19742.3	20043.5	21303.0	22357.4	24156.1	25035.8	21283.3
55°	18242.6	18177.1	18454.3	19731.3	20999.6	21316.1	22778.7	23957.4	25861.0	26472.2	22093.2
57.5°	19104.8	18980.4	19214.0	20733.3	22431.6	22809.2	24431.1	25657.9	27537.4	27633.4	22608.4
60°	19993.2	19825.2	20087.1	21975.4	24250.0	24695.2	26365.2	27317.0	29117.8	28563.4	22774.3
62.5°	20770.4	20652.5	21056.3	23361.5	26299.7	26788.7	28264.4	29080.8	30676.4	28949.8	22176.2
65°	21449.3	21468.9	22167.5	24920.1	28585.2	29107.0	30442.9	31254.9	31903.3	28720.5	20777.0
67.5°	22259.1	22370.5	23562.4	26972.0	31462.3	32034.2	33612.5	33625.6	32588.7	27375.9	18022.1
70°	23440.1	23669.3	25481.1	29818.6	35553.1	36338.9	37557.0	35018.3	31626.0	23730.4	14180.2
72.5°	24487.9	24915.7	27522.1	33075.4	40538.8	41134.8	39864.4	34214.9	27602.9	17784.2	8834.2
74°	24062.2	24592.7	27893.2	34679.9	42416.2	42702.1	39085.0	31870.5	23014.4	12316.0	5134.2
75°	23145.4	23721.7	27351.9	34664.7	42178.2	42018.9	37203.3	29192.1	18954.2	8399.9	3416.3
77.5°	18679.2	19288.2	23047.1	29709.4	34583.9	34433.3	28578.7	19582.9	8301.6	2754.9	1735.4
80°	10860.0	11324.9	14306.8	18866.9	23320.1	23592.9	18794.9	9690.0	3265.6	1547.7	1176.5
82.5°	4824.2	5145.1	6911.1	9631.0	14073.3	14424.6	9842.7	5077.5	2017.0	940.9	707.2
85°	3165.2	3403.1	4195.6	4586.3	6701.6	6941.6	4817.7	3953.2	1331.6	517.4	519.5
87.5°	2276.8	2506.0	3117.2	2722.1	3075.7	2912.0	2621.7	3658.6	534.8	294.6	174.7
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°	10918.9	10918.9	10918.9	10918.9	10918.9	10918.9	10918.9	10918.9	10918.9	10918.9	10918.9
2.5°	10816.3	10781.4	10702.8	10554.3	10471.4	10401.6	10285.9	10218.2	10187.7	10185.4	10198.6
5°	10547.8	10467.1	10264.1	10015.2	9816.6	9635.4	9410.5	9275.2	9179.1	9122.4	9137.6
7.5°	10235.7	10109.1	9790.4	9393.1	9074.4	8722.9	8375.8	8168.5	8006.9	7886.9	7908.7
10°	10021.8	9847.1	9382.2	8810.2	8279.8	7769.0	7290.9	7005.0	6777.9	6603.3	6616.4
12.5°	9949.7	9714.0	9070.0	8306.0	7561.6	6863.1	6238.8	5800.0	5566.5	5367.8	5383.0
15°	9960.7	9644.1	8808.1	7851.9	6915.4	6035.8	5278.2	4765.3	4448.8	4311.3	4313.4
17.5°	9969.3	9563.4	8533.0	7365.2	6275.8	5263.0	4440.0	3920.5	3621.5	3494.9	3497.0
20°	9941.0	9432.4	8192.5	6806.4	5607.9	4553.6	3756.7	3315.8	3088.8	2990.5	2990.5
22.5°	9903.8	9277.4	7808.2	6245.3	4948.7	3937.9	3267.8	2931.7	2800.7	2735.2	2733.0
25°	9921.4	9161.7	7415.3	5669.0	4341.9	3446.8	2942.6	2719.9	2632.6	2591.1	2589.0
27.5°	10015.2	9107.1	7053.0	5094.9	3811.3	3077.9	2724.3	2567.1	2510.3	2484.2	2484.2
30°	10185.4	9107.1	6675.4	4605.9	3370.4	2805.1	2556.2	2449.2	2409.9	2392.5	2392.5
32.5°	10482.3	9157.3	6310.8	4121.4	3019.0	2591.1	2416.5	2344.4	2313.9	2305.1	2305.1
35°	10993.1	9327.6	5955.0	3662.9	2735.2	2416.5	2283.3	2241.9	2220.1	2217.8	2224.3
37.5°	11711.3	9674.7	5621.0	3324.6	2534.4	2274.6	2172.0	2139.3	2126.2	2137.1	2145.8
40°	12615.0	10146.1	5317.6	3019.0	2381.6	2161.1	2069.4	2047.5	2041.0	2056.3	2069.4
42.5°	13706.5	10783.6	5068.7	2798.5	2263.7	2065.1	1982.1	1955.9	1949.4	1966.8	1984.3
45°	14887.4	11469.0	4894.1	2634.8	2172.0	1993.0	1905.7	1877.3	1864.2	1873.0	1892.6
47.5°	15961.4	12117.4	4824.2	2519.1	2084.7	1931.8	1838.0	1803.1	1781.2	1776.9	1792.2
50°	16867.3	12599.7	4857.0	2449.2	2014.8	1864.2	1772.5	1733.2	1700.4	1680.9	1691.8
52.5°	17526.6	12903.1	4887.6	2418.7	1960.3	1790.0	1700.4	1663.4	1619.7	1587.0	1587.0
55°	18004.7	12973.0	4819.8	2394.6	1918.8	1709.2	1619.7	1584.7	1541.2	1504.0	1499.7
57.5°	18192.4	12776.5	4568.9	2359.7	1890.4	1632.8	1534.6	1508.4	1471.3	1427.6	1425.5
60°	17939.2	12169.7	4084.2	2285.6	1853.3	1569.5	1449.5	1432.0	1414.6	1373.0	1370.9
62.5°	16921.9	10838.2	3457.7	2134.9	1779.1	1501.8	1370.9	1379.6	1381.8	1353.4	1349.1
65°	15077.4	9008.9	2846.5	1938.5	1667.7	1421.1	1290.1	1331.6	1355.6	1351.2	1344.7
67.5°	12396.8	7011.5	2412.1	1731.1	1521.5	1309.8	1202.8	1250.8	1270.4	1285.7	1281.3
70°	9201.0	4944.3	1995.2	1512.7	1344.7	1178.8	1089.3	1113.3	1100.2	1117.7	1124.2
72.5°	5129.8	2966.6	1626.3	1294.5	1161.3	1026.0	962.7	958.3	930.0	930.0	930.0
74°	3077.9	2176.4	1429.8	1159.1	1049.9	925.6	871.0	851.3	825.2	827.3	825.2
75°	2475.4	1870.7	1311.9	1069.6	971.4	866.6	812.0	785.9	766.2	766.2	764.1
77.5°	1563.0	1421.1	1056.6	851.3	777.1	713.8	676.7	641.7	641.7	639.6	637.4
80°	1180.9	1130.7	822.9	644.0	595.9	547.9	523.9	508.6	508.6	515.1	513.0
82.5°	809.9	851.3	578.5	449.7	425.6	390.8	386.4	388.5	382.0	373.3	371.1
85°	591.5	639.6	390.8	283.7	259.8	237.9	255.4	264.1	253.2	233.5	224.9
87.5°	227.0	419.1	209.6	117.8	109.2	93.9	109.2	113.6	122.2	96.0	98.2
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)