

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: P383449

Luminaire Tested: **GLEON-SA7C-735-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383449  
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-SA7C-735-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 44283.9 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

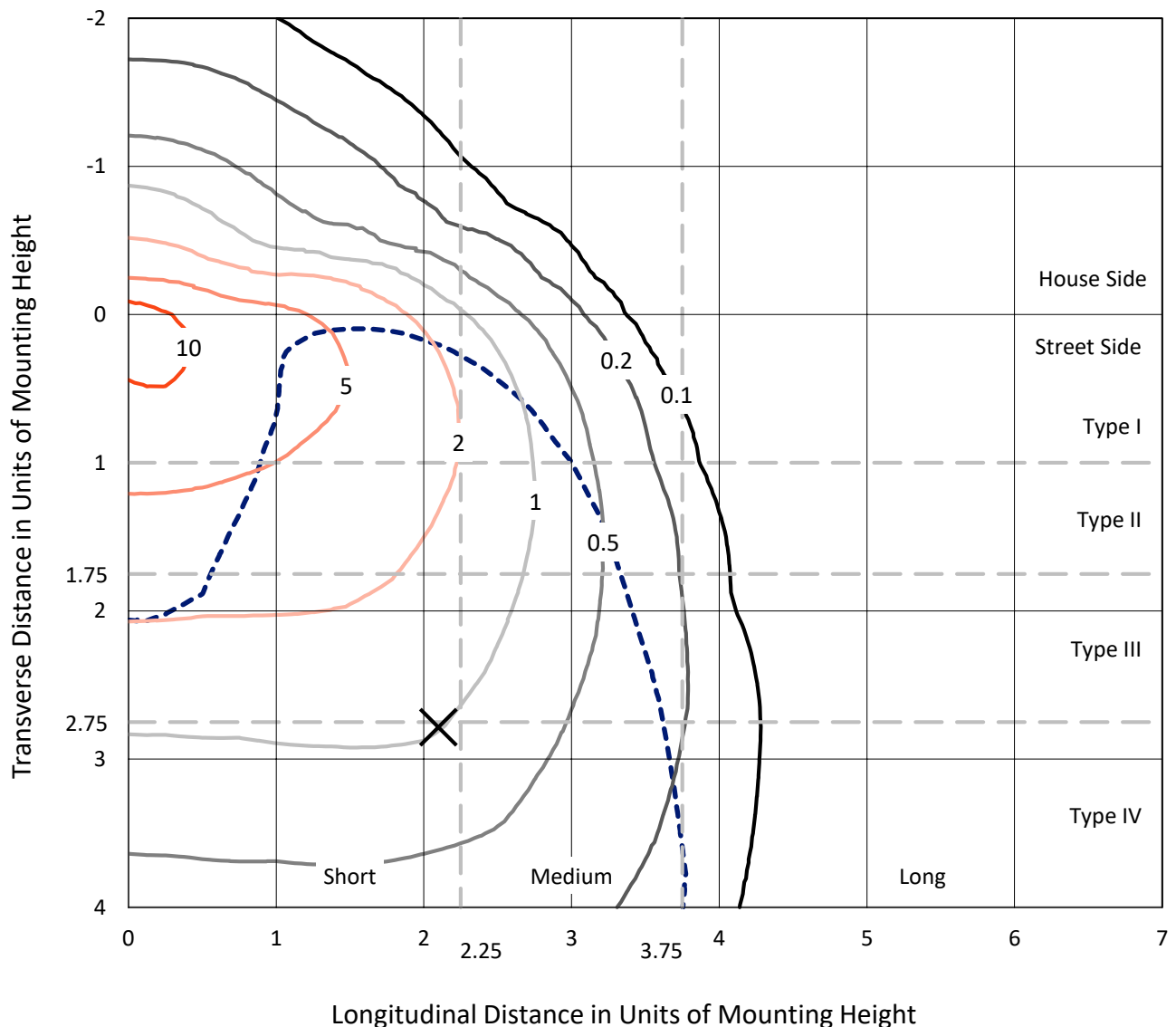
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

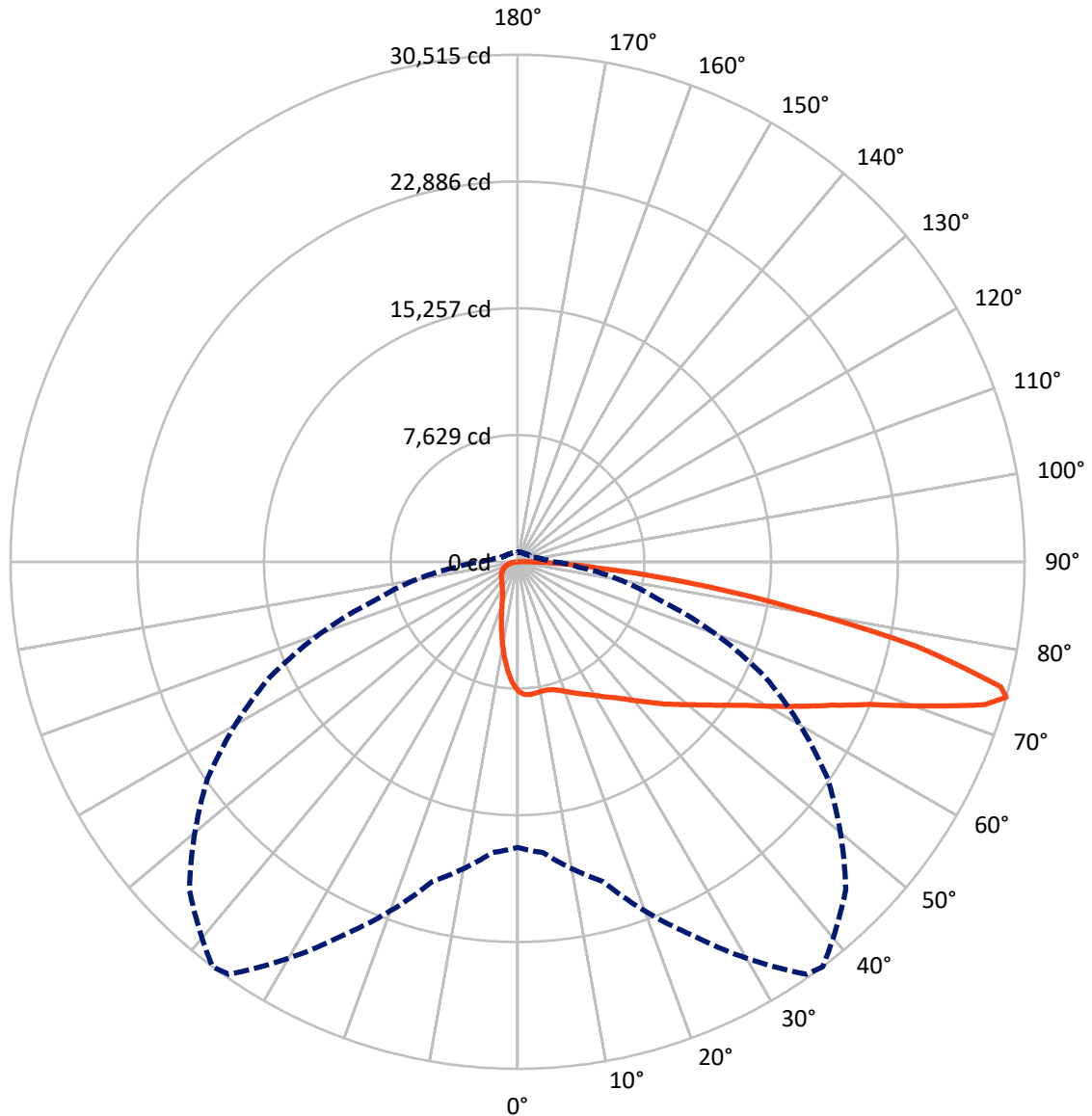
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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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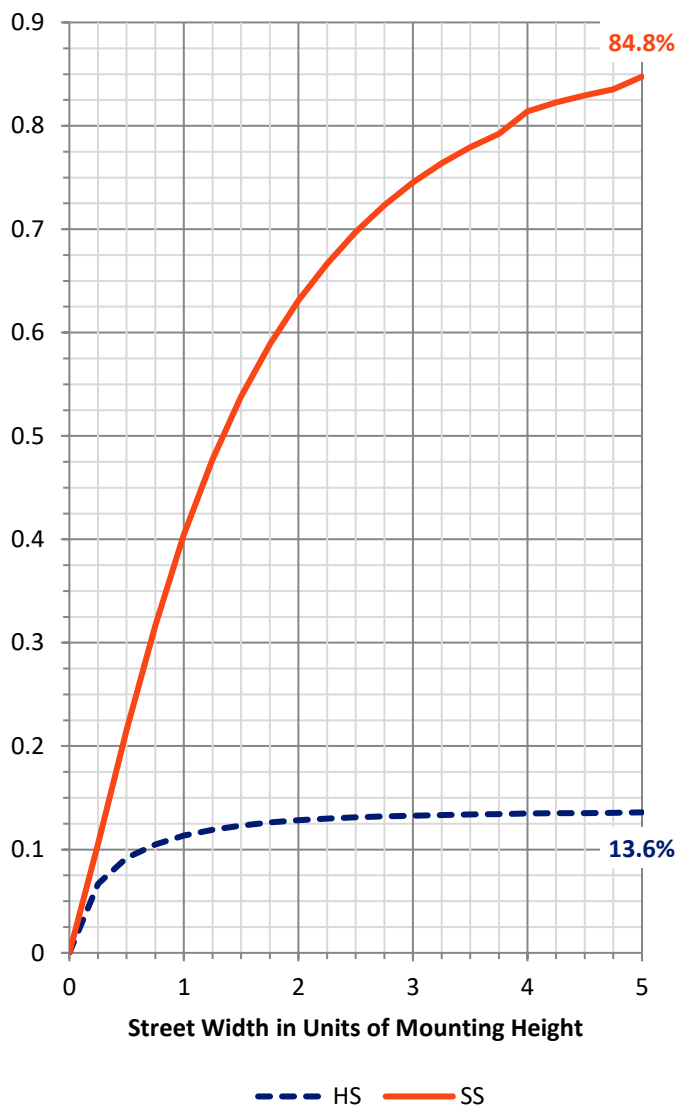
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6093.2	0.0	6093.2
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	38190.8	0.0	38190.8
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	44283.9	0.0	44283.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	687.1	1.6
10°-20°	1761.2	4.0
20°-30°	2713.7	6.1
30°-40°	3946.2	8.9
40°-50°	5808.1	13.1
50°-60°	8156.4	18.4
60°-70°	10323.5	23.3
70°-80°	9090.3	20.5
80°-90°	1797.3	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°	44283.9	100.0
0°-180°	44283.9	100.0

**Coefficient of Utilization**

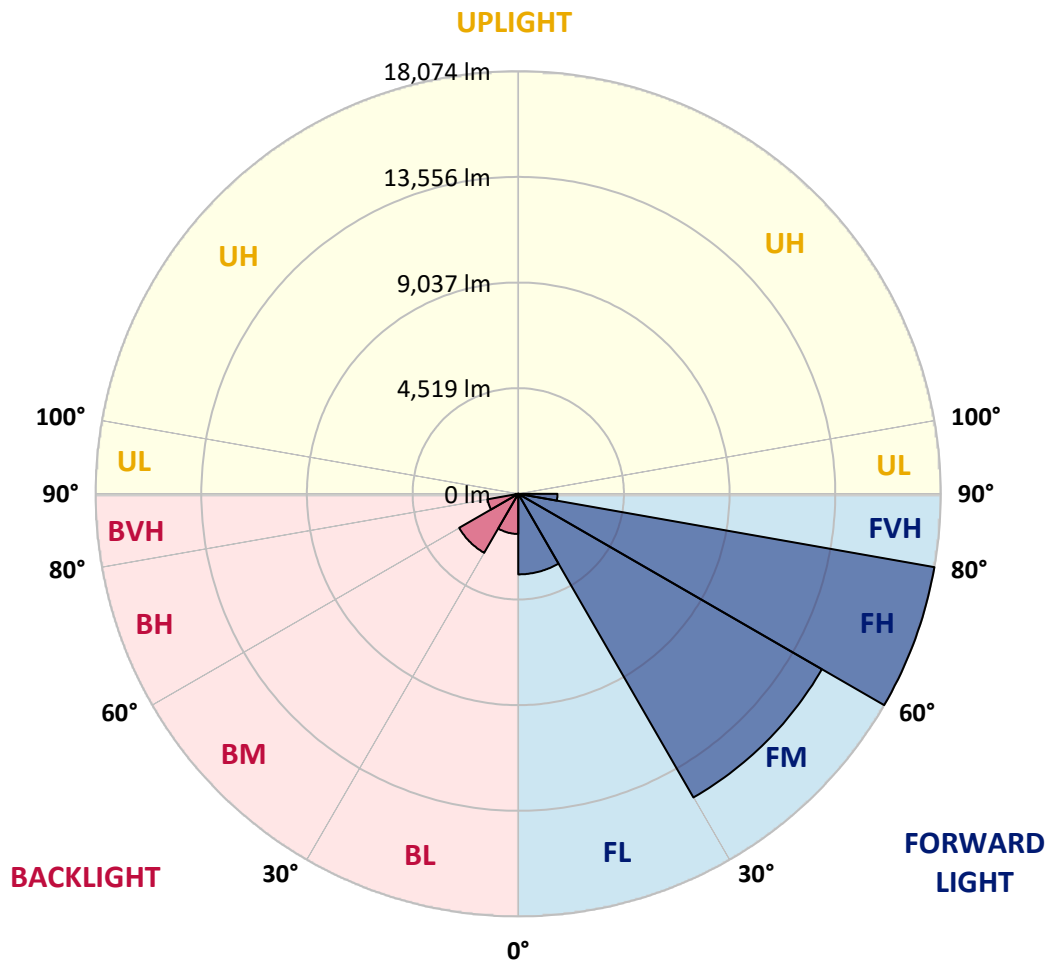


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3445.8	7.8			
FM (30°-60°)	14994.9	33.9			
FH (60°-80°)	18074.4	40.8			G5
FVH (80°-90°)	1675.6	3.8			G5
BL (0°-30°)	1716.3	3.9	B3/2500		
BM (30°-60°)	2915.8	6.6	B3/5000		
BH (60°-80°)	1339.3	3.0	B3/2500		G3/2500
BVH (80°-90°)	121.7	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°	7802.6	7802.6	7802.6	7802.6	7802.6	7802.6	7802.6	7802.6	7802.6	7802.6	7802.6
2.5°	8069.4	8070.9	8069.4	8057.0	8027.2	8002.4	7982.1	7952.4	7886.9	7837.0	7762.1
5°	8145.8	8136.5	8130.3	8106.8	8060.0	8032.0	7993.0	7936.8	7829.2	7729.3	7607.7
7.5°	8110.0	8099.1	8085.0	8057.0	8003.9	7980.5	7925.9	7852.6	7723.1	7592.0	7417.4
10°	7999.2	7996.1	7989.9	7983.6	7938.4	7919.6	7869.7	7791.7	7663.8	7504.7	7300.4
12.5°	7876.0	7883.8	7908.7	7941.4	7921.2	7911.8	7880.6	7827.6	7696.5	7524.9	7278.6
15°	7798.0	7819.8	7886.9	7972.7	7989.9	7986.7	7978.9	7944.6	7805.8	7615.5	7328.5
17.5°	7771.4	7807.3	7935.2	8077.2	8127.1	8138.0	8141.2	8081.9	7927.5	7726.3	7379.9
20°	7819.8	7865.1	8052.2	8247.3	8326.8	8333.1	8319.0	8216.1	8042.9	7821.4	7408.0
22.5°	7966.4	8007.0	8241.0	8461.0	8551.4	8560.7	8518.6	8362.7	8164.5	7933.7	7447.0
25°	8248.8	8298.7	8532.7	8752.6	8799.4	8801.0	8740.2	8546.8	8323.7	8091.2	7531.2
27.5°	8616.9	8666.8	8877.5	9092.6	9067.8	9053.7	8971.0	8777.6	8531.1	8308.1	7681.0
30°	9027.2	9081.8	9281.5	9434.3	9375.0	9347.0	9279.9	9030.3	8819.7	8604.4	7910.3
32.5°	9451.5	9501.4	9676.1	9780.6	9705.7	9693.2	9591.9	9364.1	9195.7	9056.8	8281.6
35°	9886.7	9922.6	10094.2	10153.4	10053.6	10050.5	10022.4	9813.4	9707.3	9772.8	8821.3
37.5°	10331.2	10340.6	10487.3	10490.3	10460.7	10473.2	10502.8	10371.9	10401.5	10605.8	9523.2
40°	10727.5	10752.5	10858.5	10891.3	10942.7	10986.4	11134.6	11048.8	11278.2	11640.1	10396.8
42.5°	11020.8	11069.1	11239.1	11323.3	11490.3	11558.9	11768.0	11847.5	12309.2	12852.1	11435.7
45°	11268.7	11343.6	11616.6	11789.8	12072.1	12192.2	12491.8	12758.5	13474.5	14167.1	12529.1
47.5°	11537.0	11632.2	11973.8	12304.5	12688.2	12824.0	13368.4	13767.7	14717.7	15489.9	13560.3
50°	11931.7	12005.0	12338.9	12858.3	13337.2	13511.9	14265.3	14837.9	15981.3	16750.3	14454.1
52.5°	12482.4	12454.3	12736.7	13465.1	14107.8	14323.1	15223.2	15976.6	17261.9	17890.6	15209.1
55°	13036.2	12989.3	13187.5	14100.0	15006.3	15232.5	16277.6	17120.0	18480.2	18917.0	15787.8
57.5°	13652.3	13563.4	13730.3	14816.0	16029.6	16299.5	17458.5	18335.2	19678.2	19746.9	16155.9
60°	14287.1	14167.1	14354.2	15703.6	17329.0	17647.2	18840.6	19520.7	20807.6	20411.4	16274.5
62.5°	14842.5	14758.3	15046.8	16694.1	18793.8	19143.2	20197.6	20781.1	21921.4	20687.4	15847.1
65°	15327.7	15341.7	15840.9	17807.9	20427.0	20799.8	21754.4	22334.8	22798.0	20523.7	14847.2
67.5°	15906.4	15985.9	16837.6	19274.2	22482.9	22891.7	24019.5	24028.8	23287.9	19562.8	12878.6
70°	16750.3	16914.1	18208.8	21308.3	25406.2	25967.7	26838.2	25024.0	22599.9	16957.7	10133.2
72.5°	17499.0	17804.8	19667.3	23635.7	28969.0	29394.9	28487.0	24450.0	19725.1	12708.5	6312.9
74°	17194.9	17573.9	19932.5	24782.2	30310.5	30514.9	27930.1	22774.7	16446.1	8801.0	3668.9
75°	16539.7	16951.5	19545.6	24771.3	30140.5	30026.7	26585.5	20860.6	13544.7	6002.5	2441.2
77.5°	13348.1	13783.4	16469.5	21230.3	24713.6	24606.0	20422.3	13993.9	5932.3	1968.6	1240.2
80°	7760.5	8092.8	10223.6	13482.3	16664.5	16859.4	13430.8	6924.4	2333.6	1105.9	840.8
82.5°	3447.4	3676.7	4938.7	6882.3	10056.7	10307.9	7033.7	3628.4	1441.4	672.3	505.4
85°	2261.9	2431.9	2998.2	3277.4	4788.9	4960.5	3442.7	2825.0	951.6	369.7	371.2
87.5°	1626.9	1790.8	2227.5	1945.2	2197.9	2080.9	1873.4	2614.4	382.2	210.6	124.8
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°	7802.6	7802.6	7802.6	7802.6	7802.6	7802.6	7802.6	7802.6	7802.6	7802.6	7802.6
2.5°	7729.3	7704.4	7648.2	7542.2	7482.8	7432.9	7350.3	7301.9	7280.0	7278.6	7287.9
5°	7537.4	7479.8	7334.7	7156.9	7014.9	6885.4	6724.7	6628.1	6559.4	6518.9	6529.8
7.5°	7314.4	7224.0	6996.2	6712.3	6484.5	6233.4	5985.4	5837.2	5721.8	5636.0	5651.5
10°	7161.6	7036.7	6704.4	6295.8	5916.7	5551.7	5210.1	5005.8	4843.5	4718.8	4728.1
12.5°	7110.0	6941.6	6481.4	5935.4	5403.5	4904.3	4458.2	4144.6	3977.8	3835.8	3846.7
15°	7117.9	6891.7	6294.2	5611.0	4941.8	4313.2	3771.8	3405.3	3179.1	3080.8	3082.4
17.5°	7124.1	6833.9	6097.6	5263.2	4484.7	3760.9	3172.9	2801.6	2587.8	2497.4	2499.0
20°	7103.8	6740.4	5854.3	4863.8	4007.4	3254.0	2684.6	2369.5	2207.3	2137.1	2137.1
22.5°	7077.3	6629.6	5579.8	4462.9	3536.3	2814.1	2335.2	2095.0	2001.3	1954.6	1953.0
25°	7089.8	6546.9	5299.0	4051.1	3102.6	2463.1	2102.8	1943.7	1881.3	1851.6	1850.1
27.5°	7156.9	6507.9	5040.0	3640.9	2723.6	2199.5	1946.7	1834.5	1793.9	1775.2	1775.2
30°	7278.6	6507.9	4770.2	3291.4	2408.5	2004.5	1826.7	1750.2	1722.2	1709.7	1709.7
32.5°	7490.7	6543.8	4509.7	2945.1	2157.4	1851.6	1726.8	1675.3	1653.5	1647.3	1647.3
35°	7855.6	6665.5	4255.4	2617.6	1954.6	1726.8	1631.7	1602.0	1586.4	1584.8	1589.5
37.5°	8368.9	6913.5	4016.7	2375.7	1811.0	1625.5	1552.1	1528.7	1519.4	1527.2	1533.4
40°	9014.7	7250.4	3800.0	2157.4	1701.8	1544.3	1478.8	1463.2	1458.5	1469.4	1478.8
42.5°	9794.7	7705.9	3622.1	1999.8	1617.6	1475.7	1416.4	1397.7	1393.0	1405.5	1418.0
45°	10638.6	8195.8	3497.3	1882.8	1552.1	1424.1	1361.8	1341.5	1332.2	1338.4	1352.4
47.5°	11406.1	8659.0	3447.4	1800.1	1489.7	1380.6	1313.5	1288.5	1272.9	1269.8	1280.7
50°	12053.4	9003.8	3470.8	1750.2	1439.8	1332.2	1266.6	1238.6	1215.2	1201.1	1209.0
52.5°	12524.5	9220.6	3492.7	1728.4	1400.8	1279.1	1215.2	1188.7	1157.4	1134.1	1134.1
55°	12866.1	9270.5	3444.3	1711.3	1371.1	1221.4	1157.4	1132.5	1101.3	1074.8	1071.7
57.5°	13000.3	9130.1	3264.9	1686.3	1350.8	1166.9	1096.6	1077.9	1051.3	1020.1	1018.6
60°	12819.3	8696.5	2918.6	1633.2	1324.4	1121.6	1035.8	1023.3	1010.8	981.2	979.6
62.5°	12092.4	7745.0	2470.9	1525.6	1271.3	1073.2	979.6	985.9	987.4	967.1	964.1
65°	10774.3	6437.7	2034.1	1385.2	1191.7	1015.5	921.9	951.6	968.7	965.5	960.9
67.5°	8858.7	5010.4	1723.7	1237.0	1087.2	935.9	859.5	893.8	907.9	918.8	915.7
70°	6575.0	3533.2	1425.7	1081.1	960.9	842.3	778.4	795.5	786.2	798.7	803.4
72.5°	3665.8	2119.9	1162.1	925.0	829.9	733.1	687.9	684.8	664.6	664.6	664.6
74°	2199.5	1555.2	1021.7	828.3	750.4	661.4	622.4	608.4	589.7	591.2	589.7
75°	1768.9	1336.9	937.5	764.3	694.2	619.3	580.3	561.5	547.6	547.6	546.0
77.5°	1116.9	1015.5	755.0	608.4	555.3	510.1	483.6	458.6	458.6	457.0	455.5
80°	843.9	808.0	588.1	460.2	425.8	391.5	374.4	363.5	363.5	368.1	366.6
82.5°	578.8	608.4	413.4	321.4	304.2	279.2	276.1	277.7	272.9	266.7	265.2
85°	422.7	457.0	279.2	202.8	185.7	170.0	182.5	188.7	180.9	166.9	160.7
87.5°	162.3	299.5	149.8	84.2	78.0	67.1	78.0	81.1	87.4	68.7	70.2
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)