

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: P382707

Luminaire Tested: **GLEON-SA0D-735-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382707  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0D-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 71972.3 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

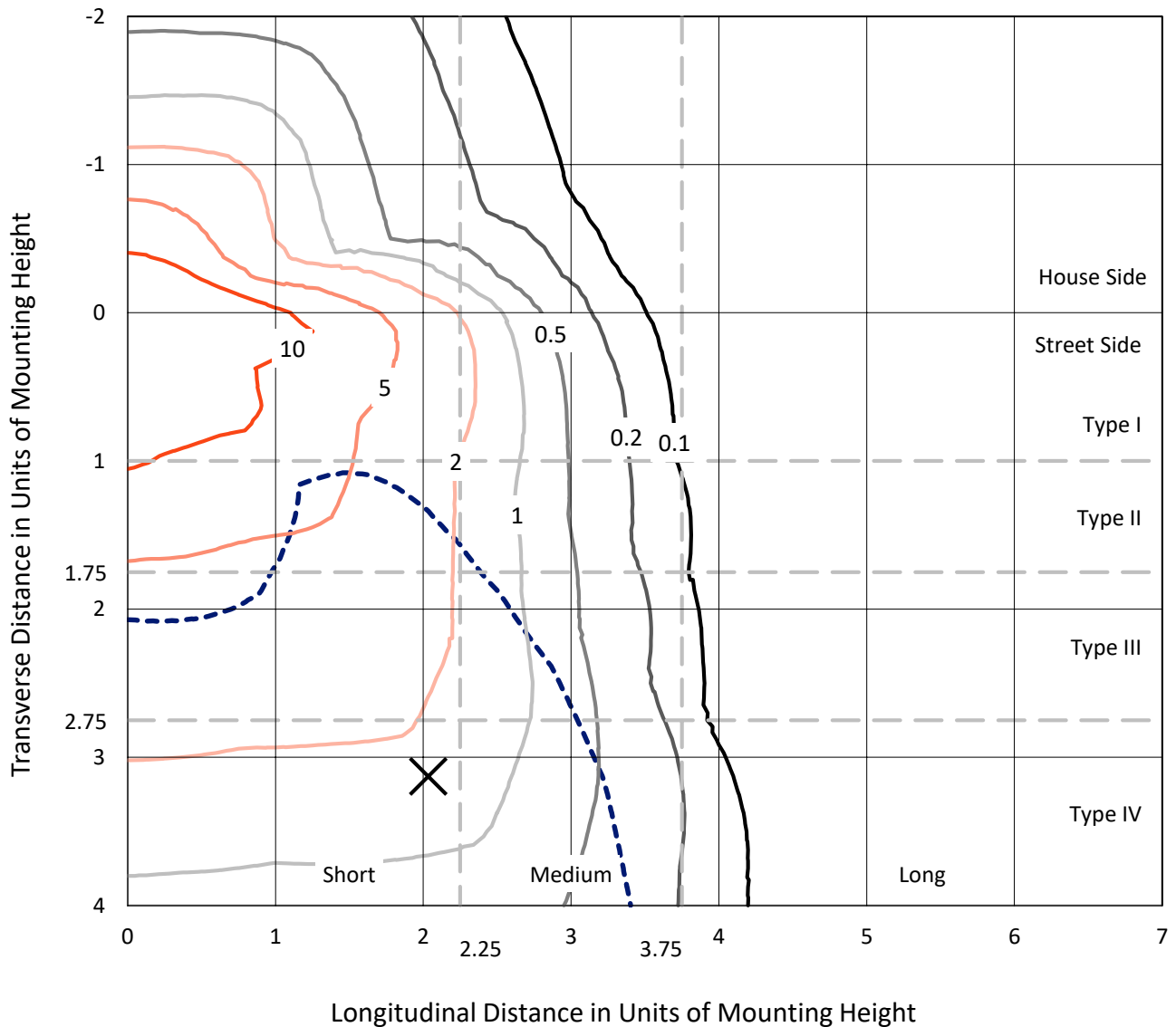
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P382707  
 CATALOG NUMBER: GLEON-SA0D-735-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

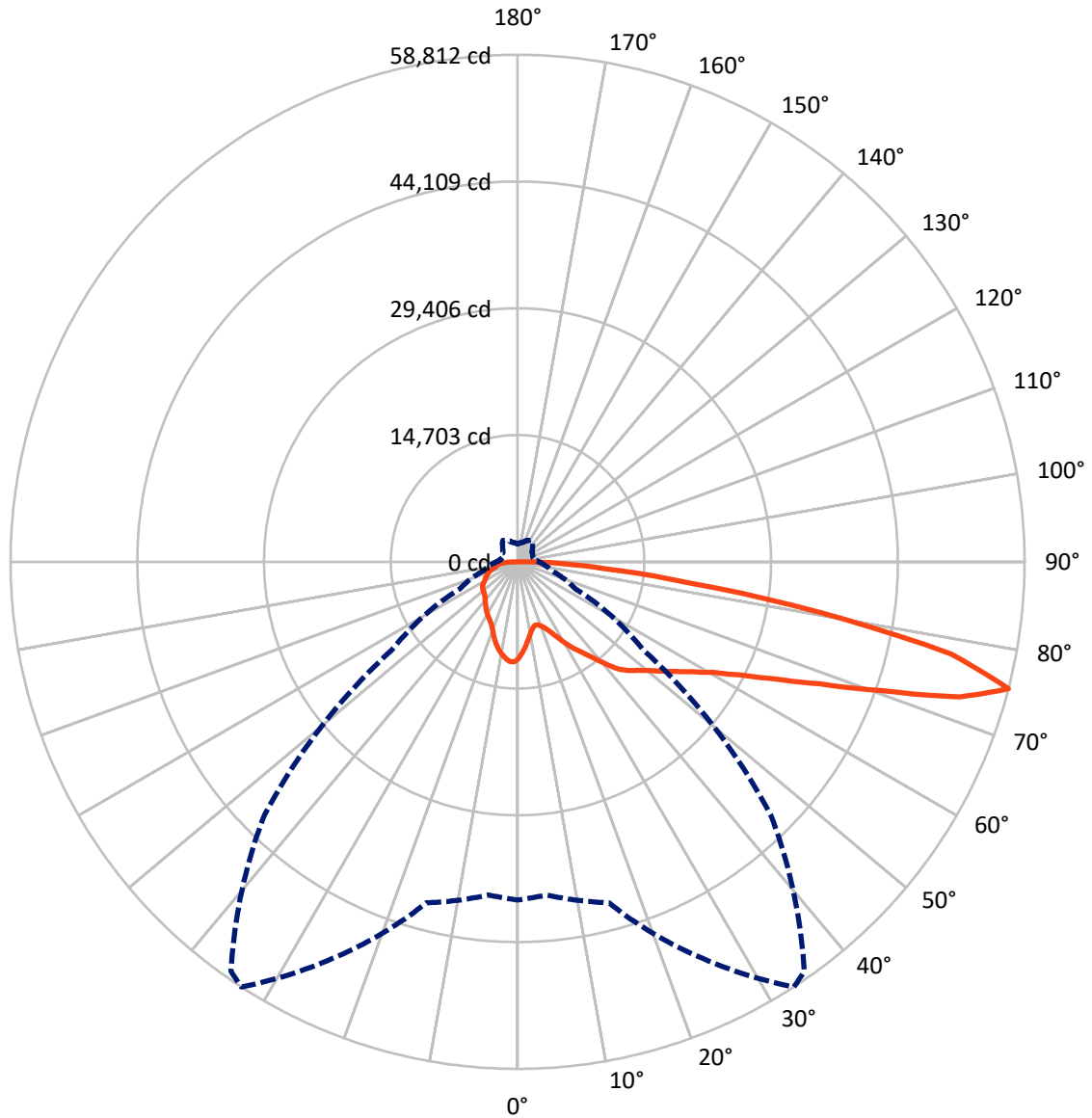
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc  
 Type IV - Short - N/A

REPORT NUMBER: P382707  
CATALOG NUMBER: GLEON-SA0D-735-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P382707  
 CATALOG NUMBER: GLEON-SA0D-735-U-T4FT

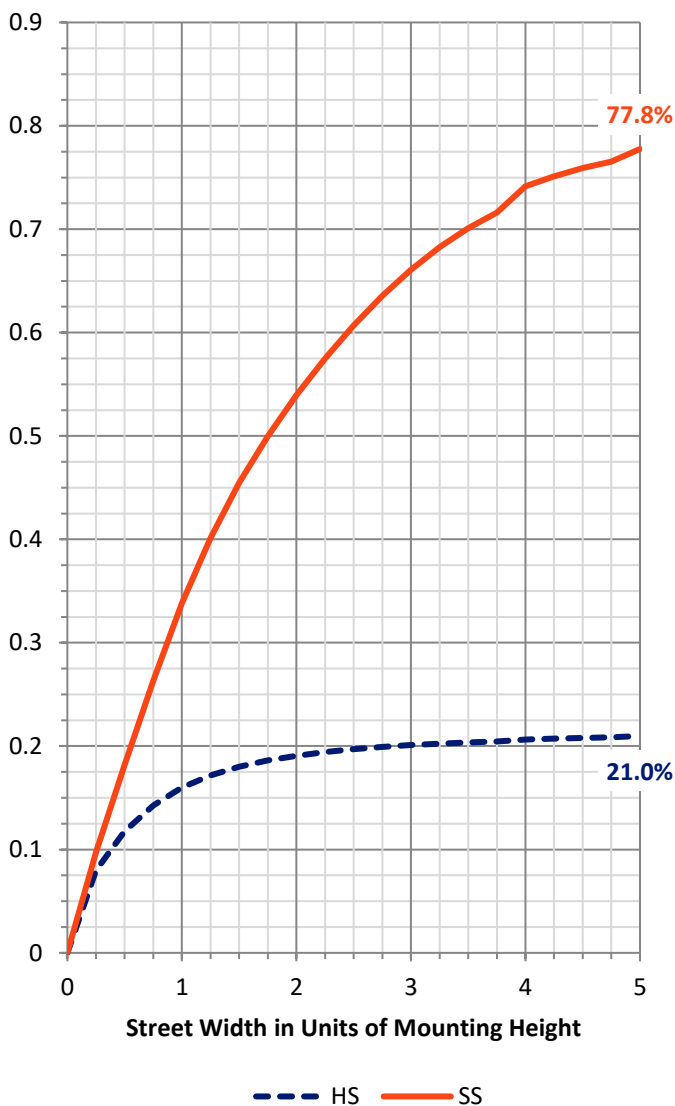
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15454.3	0.0	15454.3
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	56518.0	0.0	56518.0
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	71972.3	0.0	71972.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1017.4	1.4
10°-20°	2755.5	3.8
20°-30°	4500.2	6.3
30°-40°	6701.8	9.3
40°-50°	9612.2	13.4
50°-60°	13196.1	18.3
60°-70°	16520.9	23.0
70°-80°	14945.7	20.8
80°-90°	2722.4	3.8
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°	71972.3	100.0
0°-180°	71972.3	100.0

**Coefficient of Utilization**

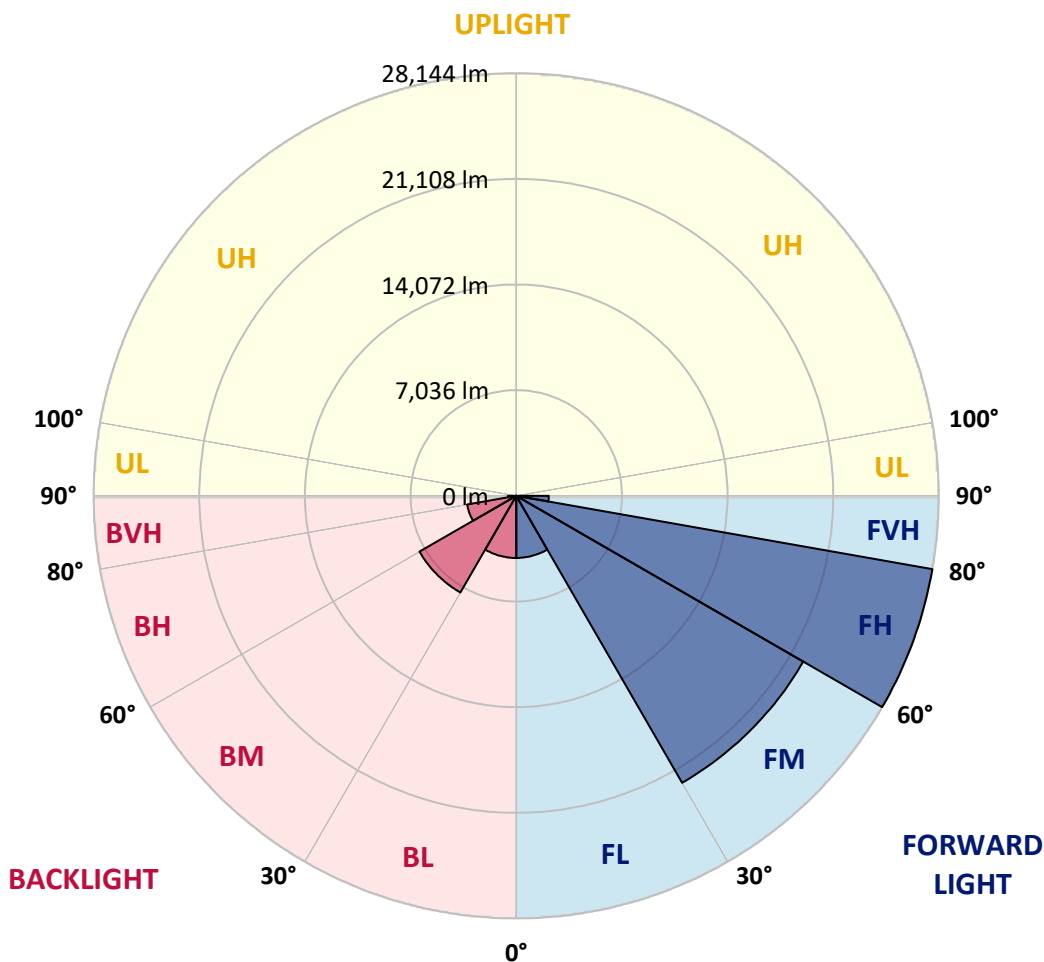


REPORT NUMBER: P382707  
 CATALOG NUMBER: GLEON-SA0D-735-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4133.7	5.7			
FM (30°-60°)	22072.4	30.7			
FH (60°-80°)	28143.7	39.1			G5
FVH (80°-90°)	2168.2	3.0			G5
BL (0°-30°)	4139.4	5.8	B4/5000		
BM (30°-60°)	7437.7	10.3	B4/8500		
BH (60°-80°)	3323.0	4.6	B4/5000		G4/5000
BVH (80°-90°)	554.3	0.8			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Short





REPORT NUMBER: P382707  
 CATALOG NUMBER: GLEON-SA0D-735-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	11249.6	11249.6	11249.6	11249.6	11249.6	11249.6	11249.6	11249.6	11249.6	11249.6	11249.6
2.5°	10446.7	10406.9	10481.5	10491.4	10556.0	10580.9	10670.4	10809.6	10924.0	11055.8	11175.1
5°	9499.5	9472.1	9576.5	9651.1	9792.8	9852.5	10063.8	10359.6	10623.2	10921.5	11192.5
7.5°	8599.5	8584.6	8701.4	8870.5	9034.5	9116.6	9482.0	9912.1	10352.2	10834.5	11249.6
10°	7841.2	7836.3	7948.2	8114.7	8355.8	8447.8	8920.2	9487.0	10103.6	10767.4	11346.6
12.5°	7416.1	7433.5	7485.7	7624.9	7848.7	7940.7	8465.3	9131.5	9894.7	10745.0	11488.3
15°	7520.5	7547.9	7458.3	7453.4	7612.5	7684.6	8176.8	8877.9	9745.6	10782.3	11694.6
17.5°	7965.5	7970.5	7734.3	7585.1	7682.1	7719.4	8087.3	8733.7	9658.6	10866.8	11953.2
20°	8592.0	8579.6	8161.9	7913.3	7965.5	7975.4	8214.1	8736.2	9651.1	11013.5	12288.9
22.5°	9422.4	9330.4	8768.6	8430.4	8418.0	8403.0	8539.8	8920.2	9760.5	11252.2	12689.2
25°	10506.4	10419.3	9646.2	9183.8	9084.3	9047.0	9066.8	9313.0	9976.8	11508.2	13136.6
27.5°	11712.1	11560.4	10814.6	10160.8	9954.4	9902.2	9782.8	9867.4	10212.9	11754.4	13668.7
30°	12721.5	12639.4	11988.1	11212.4	10968.8	10894.2	10580.9	10488.9	10553.6	12090.0	14339.9
32.5°	13285.8	13231.1	12835.8	12209.3	11983.1	11878.6	11436.1	11252.2	11100.5	12619.5	15249.8
35°	13969.5	13934.6	13696.0	13241.0	12905.4	12796.0	12452.9	12261.5	11871.2	13348.0	16425.8
37.5°	14839.6	14802.3	14807.3	14439.4	14039.1	13937.2	13710.9	13509.6	12870.6	14305.1	17703.6
40°	15824.1	15752.0	15724.7	15707.3	15453.7	15396.5	15277.2	15003.7	14123.7	15448.7	18964.1
42.5°	17305.8	17049.7	16502.8	16709.2	16960.3	16930.4	17027.4	16634.6	15515.9	16801.2	20194.7
45°	18735.4	18315.3	17370.5	17415.3	17964.7	18131.3	18857.2	18578.8	17025.0	18282.9	21467.6
47.5°	19386.7	19068.5	18265.5	18268.0	18812.4	19158.0	20749.1	20550.2	18611.0	19966.0	23021.4
50°	20115.2	19797.0	19076.0	19346.9	19821.8	20189.7	22576.4	22474.5	20120.1	21808.2	24883.5
52.5°	20910.7	20371.3	19913.8	20398.6	21064.9	21492.5	24406.2	24127.7	21504.9	23662.9	27024.1
55°	20920.7	20774.0	21122.0	21477.6	22474.5	22999.1	26323.0	25587.1	22633.6	25485.2	28766.8
57.5°	22111.5	21872.8	22611.3	22775.3	24078.0	24669.7	28229.8	26857.5	23782.2	26882.4	29706.6
60°	23687.7	23483.8	24088.0	24520.6	26061.9	26852.5	30266.0	28162.7	24684.6	27936.5	29661.9
62.5°	26410.0	26178.8	26171.4	26778.0	28853.8	29773.8	32550.7	29443.1	25042.6	28145.3	28396.5
65°	30395.3	30027.3	29333.7	29622.1	32709.8	33627.2	35104.0	30370.4	24570.3	27026.5	25137.2
67.5°	34273.6	34261.2	33408.5	34000.1	37801.4	38537.3	38012.7	30462.4	23096.0	23130.8	19354.4
70°	38139.5	38189.3	38045.1	40103.5	44680.5	45446.2	41110.4	29226.7	19782.1	16704.2	11595.3
72.5°	41202.4	41190.0	41915.9	47223.8	53608.1	53436.6	43720.8	25482.7	14203.2	9017.1	5541.6
75°	39218.4	38785.9	40948.8	50749.0	58811.6	57973.7	41500.7	17775.7	7371.3	4104.6	2983.4
77.5°	25579.6	25989.9	29164.6	41923.4	51442.7	50423.4	30447.4	8293.7	3473.1	2692.5	2163.0
80°	9263.3	9695.8	13656.2	23747.4	35442.0	35275.5	14993.7	3408.4	2349.4	2033.7	1576.2
82.5°	3187.2	3346.3	5387.4	10546.1	20010.8	20756.6	5641.0	1936.7	1708.0	1441.9	1079.0
85°	1250.5	1432.0	2463.8	5074.1	10093.6	10168.2	2284.7	1158.6	1188.4	944.7	591.7
87.5°	474.8	576.8	1178.4	2356.8	4609.3	4233.9	817.9	551.9	676.2	561.8	281.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P382707  
 CATALOG NUMBER: GLEON-SA0D-735-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11249.6	11249.6	11249.6	11249.6	11249.6	11249.6	11249.6	11249.6	11249.6	11249.6	11249.6
2.5°	11267.1	11319.3	11428.7	11503.2	11582.8	11605.2	11615.1	11635.0	11654.9	11647.4	11649.9
5°	11336.7	11438.7	11615.1	11689.7	11724.6	11684.8	11607.6	11545.5	11500.8	11475.9	11468.5
7.5°	11451.0	11595.3	11784.2	11771.8	11692.2	11515.7	11316.8	11167.7	11043.3	10998.6	10973.7
10°	11602.7	11771.8	11903.5	11761.8	11530.6	11224.8	10926.5	10695.3	10508.8	10436.7	10424.3
12.5°	11796.7	11968.2	11993.0	11692.2	11309.4	10891.7	10486.4	10180.6	9902.2	9812.7	9792.8
15°	12047.7	12209.3	12055.2	11570.4	11035.9	10474.0	9949.4	9534.3	9240.9	9131.5	9091.7
17.5°	12311.2	12465.4	12067.6	11369.0	10677.9	9979.3	9320.4	8895.3	8559.7	8432.9	8418.0
20°	12626.9	12696.6	12015.4	11080.6	10185.6	9337.8	8644.2	8243.9	8065.0	7975.4	7965.5
22.5°	13017.3	12942.7	11896.0	10690.3	9561.6	8597.0	8032.6	7846.1	7801.4	7781.5	7789.0
25°	13430.0	13201.2	11719.5	10180.6	8773.5	7856.1	7585.1	7637.4	7697.0	7689.6	7689.6
27.5°	13885.0	13464.8	11448.5	9504.4	7900.9	7249.5	7281.8	7473.2	7562.8	7560.3	7557.8
30°	14469.2	13763.2	11103.0	8691.4	7085.4	6821.9	7018.3	7252.0	7373.9	7368.8	7371.3
32.5°	15187.7	14091.3	10633.2	7784.0	6496.2	6506.2	6732.4	6963.6	7105.3	7092.9	7095.4
35°	16028.0	14459.3	9996.7	6889.0	6105.9	6255.1	6434.1	6595.6	6729.9	6712.5	6695.1
37.5°	16942.9	14819.7	9151.4	6088.5	5787.7	6021.3	6170.6	6197.9	6260.0	6215.3	6183.0
40°	17813.1	15095.7	8062.5	5432.1	5467.0	5822.5	5919.4	5810.1	5698.2	5683.3	5638.5
42.5°	18571.2	15187.7	6961.1	4907.6	5128.8	5613.7	5673.3	5444.6	5243.2	5148.8	5109.0
45°	19371.8	15220.0	5934.3	4467.5	4803.2	5427.2	5491.8	5186.0	4902.6	4698.7	4631.7
47.5°	20418.5	15453.7	5136.3	4141.8	4554.5	5302.9	5394.9	4979.7	4611.7	4320.9	4258.8
50°	21788.3	15916.1	4487.5	3893.2	4393.0	5220.9	5325.3	4778.3	4373.1	4022.5	3960.4
52.5°	23309.8	16341.2	3962.9	3691.9	4236.3	5076.7	5235.8	4634.1	4149.3	3746.6	3679.4
55°	24373.8	16015.5	3540.3	3483.1	4032.5	4870.3	5111.5	4512.3	3828.7	3478.1	3418.4
57.5°	24577.8	14901.8	3219.5	3266.8	3786.4	4611.7	4920.1	4241.3	3654.6	3361.2	3299.1
60°	24020.9	13350.5	2980.9	3067.9	3522.8	4286.1	4562.1	4049.9	3488.0	3236.9	3184.7
62.5°	22621.1	11761.8	2804.3	2888.8	3276.7	3955.4	4338.3	3848.5	3319.0	3095.3	3043.0
65°	19794.5	9874.9	2635.3	2729.7	3048.0	3669.6	4136.9	3662.0	3152.4	2980.9	2931.1
67.5°	14941.6	7396.2	2476.1	2560.7	2844.1	3420.9	3918.1	3478.1	2990.8	2881.4	2821.8
70°	8798.4	4631.7	2294.7	2384.2	2630.3	3162.3	3684.5	3276.7	2789.4	2739.7	2662.6
72.5°	4094.6	2786.9	2088.3	2175.3	2361.8	2816.8	3383.6	3013.2	2550.8	2441.4	2337.0
75°	2443.8	2038.6	1844.7	1921.8	2053.5	2448.9	3005.7	2744.7	2324.5	2180.3	2070.9
77.5°	1827.3	1558.8	1576.2	1658.2	1765.1	2143.0	2662.6	2533.3	2150.5	2038.6	1964.1
80°	1315.2	1183.3	1285.3	1374.8	1486.7	1949.1	2550.8	2341.9	1944.1	1795.0	1725.3
82.5°	877.6	850.2	967.1	1059.1	1168.4	1705.5	2396.6	2051.1	1660.8	1471.8	1317.7
85°	484.8	512.2	651.3	691.1	785.6	1200.8	1964.1	1648.3	1250.5	1006.9	962.1
87.5°	201.4	236.1	350.5	338.2	417.7	716.0	1292.8	994.4	795.5	594.1	462.4
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)