

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: P383035

Luminaire Tested: **GLEON-SA3D-735-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383035  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3D-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21653.8 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

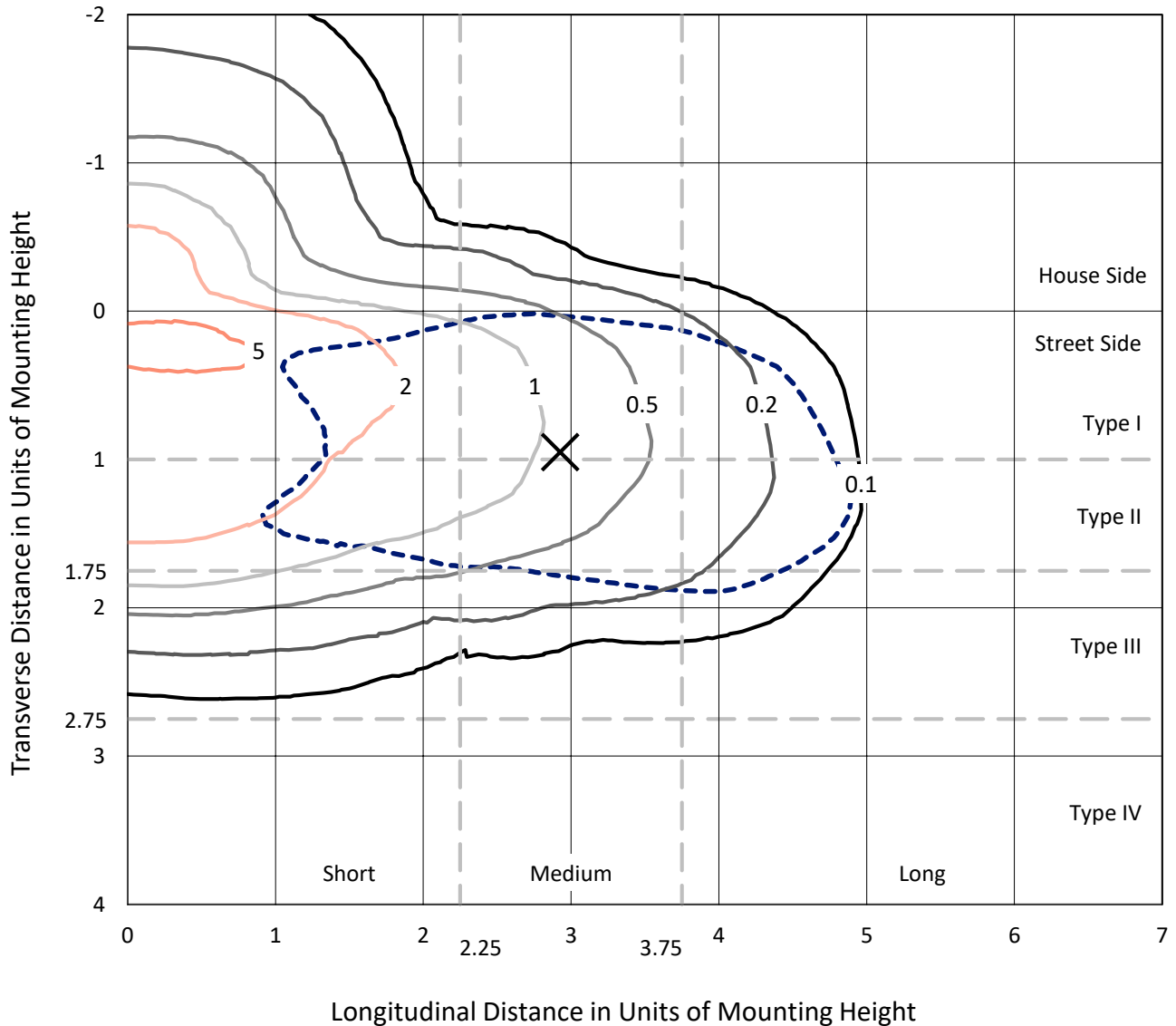
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

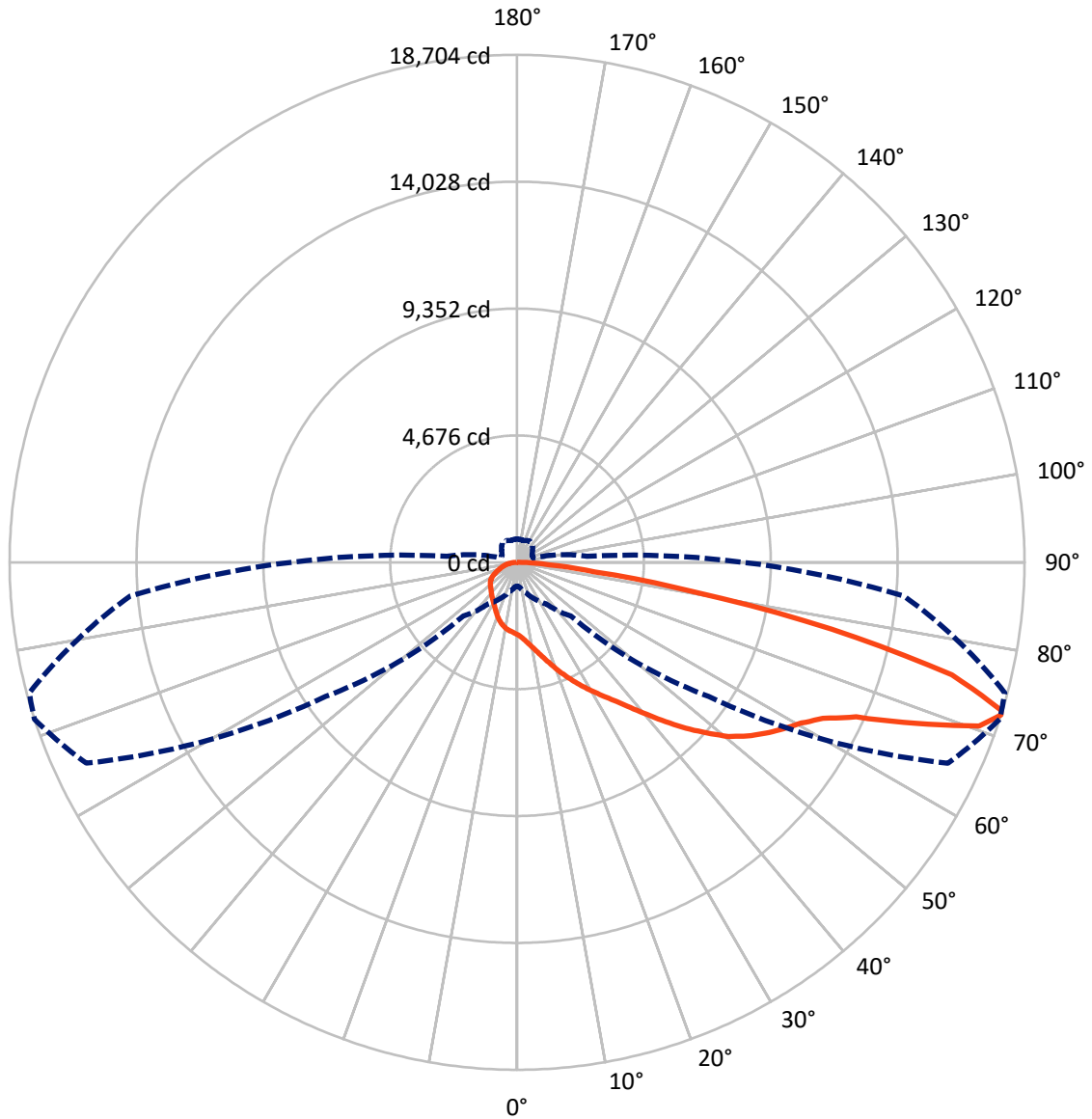
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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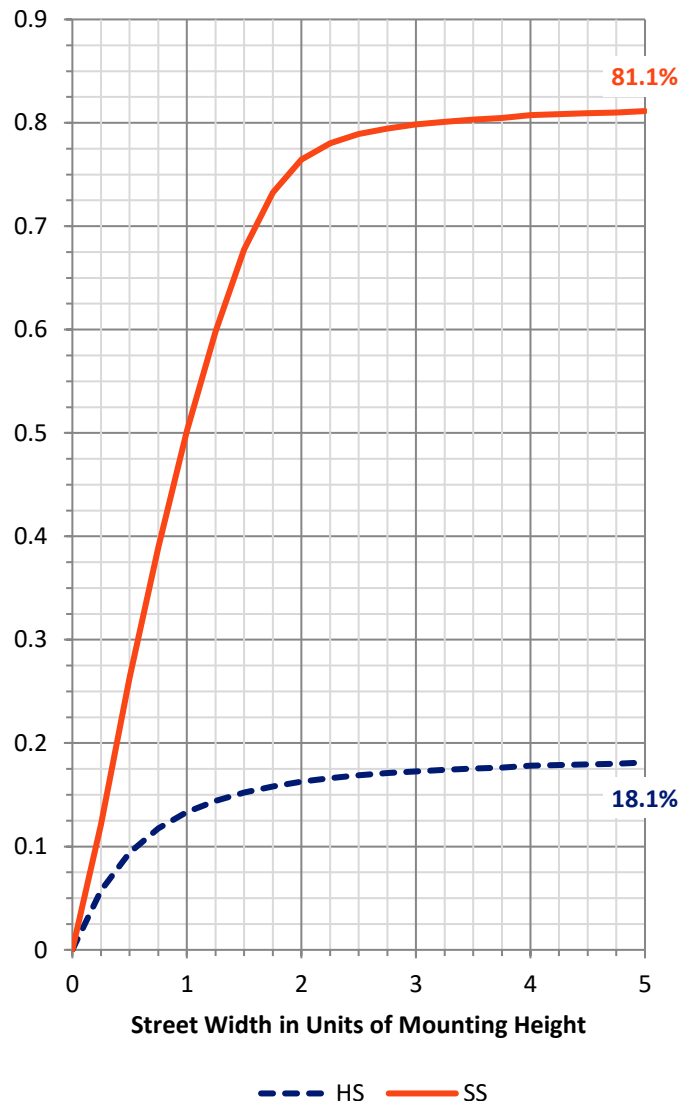
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4016.9	0.0	4016.9
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	17636.9	0.0	17636.9
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	21653.8	0.0	21653.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.9	1.2
10°-20°	862.6	4.0
20°-30°	1511.6	7.0
30°-40°	2241.2	10.4
40°-50°	3277.9	15.1
50°-60°	4510.4	20.8
60°-70°	5021.4	23.2
70°-80°	3402.5	15.7
80°-90°	559.2	2.6
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°	21653.8	100.0
0°-180°	21653.8	100.0

**Coefficient of Utilization**

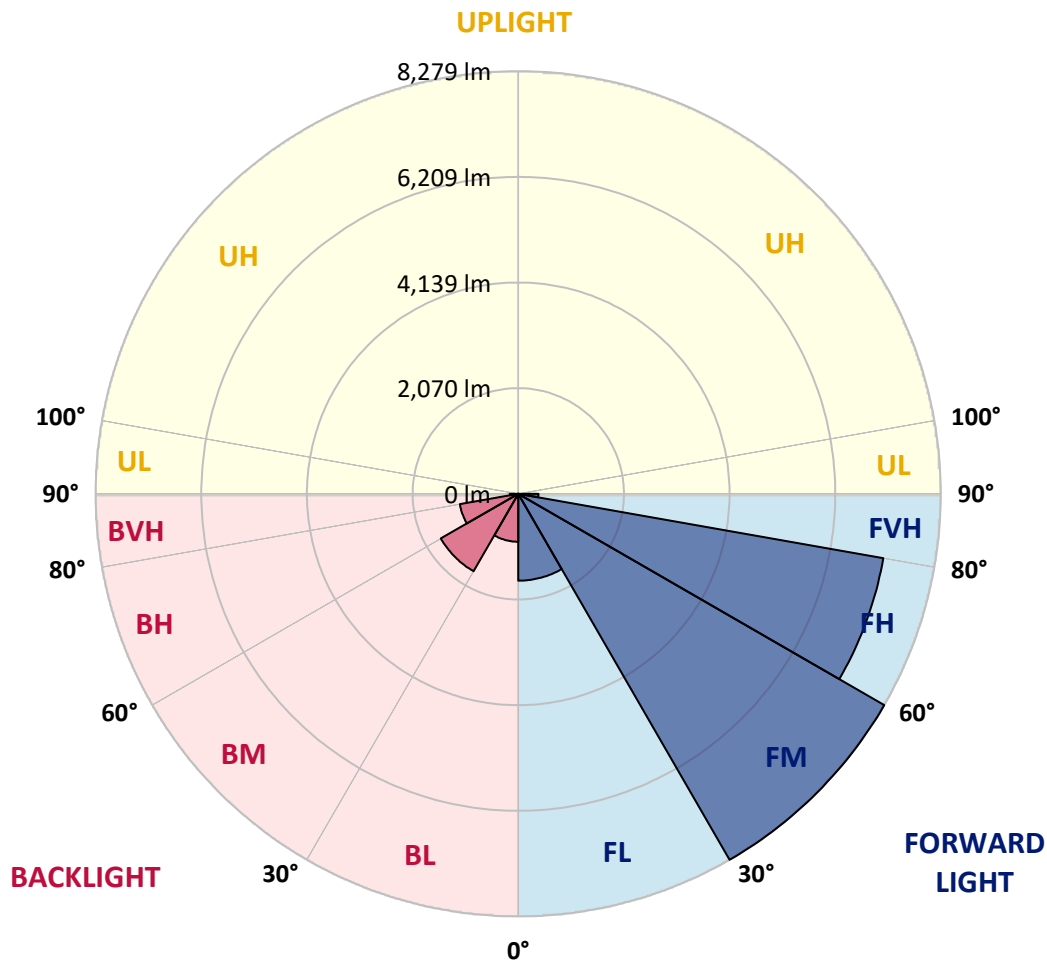


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1702.1	7.9			
FM (30°-60°)	8278.5	38.2			
FH (60°-80°)	7261.8	33.5			G3/7500
FVH (80°-90°)	394.5	1.8			G3/500
BL (0°-30°)	939.0	4.3	B2/1000		
BM (30°-60°)	1751.0	8.1	B2/2500		
BH (60°-80°)	1162.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	164.8	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9
2.5°	2942.9	2938.4	2922.7	2922.7	2892.9	2867.5	2819.8	2787.7	2749.7	2736.3	2691.6
5°	3227.6	3229.1	3209.7	3196.3	3152.4	3098.7	3017.4	2943.6	2869.7	2839.9	2748.3
7.5°	3466.9	3464.0	3458.7	3447.6	3406.6	3351.4	3241.8	3132.2	3023.3	2978.6	2820.5
10°	3620.6	3627.3	3631.7	3636.9	3619.8	3580.3	3476.7	3343.2	3200.8	3139.7	2907.1
12.5°	3698.2	3710.1	3730.9	3766.7	3795.0	3790.6	3715.3	3573.6	3404.3	3327.6	3015.1
15°	3743.6	3759.3	3792.1	3856.1	3936.0	3981.4	3961.3	3833.0	3644.4	3549.8	3147.1
17.5°	3771.9	3784.6	3835.3	3921.1	4039.6	4160.4	4213.3	4106.0	3915.9	3807.7	3298.5
20°	3791.3	3801.0	3864.3	3965.0	4118.7	4311.0	4458.6	4431.7	4214.8	4074.7	3456.5
22.5°	3834.5	3842.7	3903.2	4004.5	4174.5	4422.8	4695.0	4735.2	4530.2	4371.4	3625.8
25°	3955.4	3955.4	4006.0	4076.9	4236.4	4519.8	4894.8	5073.0	4852.2	4667.4	3782.4
27.5°	4185.7	4183.5	4202.1	4226.7	4347.5	4618.1	5073.0	5371.2	5186.3	4984.2	3934.5
30°	4458.6	4473.6	4475.8	4463.8	4520.5	4741.2	5237.7	5685.9	5522.6	5304.9	4090.3
32.5°	4809.8	4819.5	4808.3	4768.8	4760.6	4915.7	5399.5	6015.4	5886.4	5639.6	4232.7
35°	5255.6	5237.0	5201.9	5121.5	5044.6	5149.0	5584.4	6345.0	6295.0	6044.4	4428.8
37.5°	5733.6	5734.3	5691.1	5508.4	5402.5	5447.2	5839.4	6718.5	6789.3	6526.1	4680.1
40°	6116.8	6136.9	6163.8	5923.7	5786.5	5848.3	6163.8	7151.7	7373.9	7097.3	5007.3
42.5°	6384.5	6407.6	6483.7	6333.0	6190.6	6305.5	6545.5	7613.9	8029.9	7756.3	5390.6
45°	6667.8	6680.5	6734.2	6669.3	6578.3	6837.0	6975.7	8092.6	8724.1	8458.7	5819.3
47.5°	6966.0	6979.4	7034.6	6991.4	6943.7	7333.6	7424.5	8543.7	9389.2	9230.3	6277.1
50°	7334.4	7343.3	7395.5	7317.2	7332.1	7707.9	7825.7	8957.5	10086.3	9923.8	6736.4
52.5°	7836.8	7839.1	7911.4	7840.6	7770.5	7982.2	8170.9	9347.4	10632.9	10556.0	7195.6
55°	8230.5	8254.4	8491.5	8476.6	8436.3	8231.2	8459.5	9718.7	11120.4	11157.0	7683.3
57.5°	7979.3	8072.5	8552.6	8891.2	9220.6	8850.9	8849.4	10137.0	11573.7	11746.7	8219.3
60°	6988.4	7115.2	7822.7	8573.5	9604.6	9929.0	9659.1	10647.8	12031.6	12331.3	8891.2
62.5°	4991.0	5199.7	6158.6	7357.5	9078.3	10643.3	11306.8	11458.2	12654.1	13008.3	9764.2
65°	2523.1	2681.2	3484.9	4929.1	7253.1	10176.5	13097.7	13232.7	13735.9	14050.6	11108.5
67.5°	1533.0	1592.6	1984.8	2741.5	4446.6	7927.1	13682.3	16190.5	15829.6	15996.6	13025.5
70°	1129.6	1173.6	1418.1	1820.7	2557.4	4651.7	11888.4	18301.2	18064.1	18045.5	14442.1
72°	879.8	911.9	1128.1	1471.0	1869.9	2790.7	8616.7	17522.0	18703.8	18609.9	14312.3
72.5°	834.3	862.6	1059.4	1384.6	1767.1	2529.8	7747.4	16996.5	18657.6	18615.1	14144.5
75°	656.8	677.0	784.4	1070.6	1383.1	1435.2	4245.3	13171.5	16551.3	17239.5	12722.0
77.5°	543.6	546.5	603.2	779.1	1078.1	1014.7	2085.5	9138.7	11851.9	12608.6	9011.9
80°	442.9	446.6	473.4	546.5	815.7	750.8	990.1	5254.9	6635.7	6643.9	4285.7
82.5°	352.7	353.4	383.2	399.6	586.0	536.9	567.4	2467.1	2899.6	2789.2	1540.4
85°	248.3	243.0	374.3	328.1	383.2	344.5	313.2	976.7	1198.9	1146.7	482.4
87.5°	82.7	85.7	166.3	212.5	223.7	195.3	139.5	374.3	452.5	448.8	152.9
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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 CATALOG NUMBER: GLEON-SA3D-735-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9
2.5°	2677.4	2653.5	2618.5	2579.7	2549.2	2517.9	2494.8	2482.9	2469.3	2458.2	2471.6
5°	2705.8	2661.0	2586.4	2513.4	2459.7	2412.0	2377.7	2359.8	2343.4	2332.2	2333.7
7.5°	2752.0	2679.6	2554.4	2447.7	2373.2	2321.8	2286.8	2274.7	2264.3	2261.3	2265.1
10°	2801.2	2694.6	2511.9	2370.2	2285.3	2242.7	2227.1	2235.2	2242.7	2249.4	2256.9
12.5°	2857.1	2708.0	2450.0	2279.2	2206.9	2190.5	2206.2	2242.0	2268.0	2283.7	2293.5
15°	2930.2	2719.9	2378.4	2188.3	2139.9	2158.5	2211.4	2273.3	2318.8	2347.9	2352.3
17.5°	2997.3	2719.2	2286.8	2096.6	2085.5	2139.9	2219.6	2306.9	2368.0	2409.0	2417.2
20°	3066.6	2699.1	2180.1	2007.1	2030.2	2119.7	2223.3	2328.5	2402.3	2450.0	2461.1
22.5°	3131.5	2663.9	2063.0	1925.9	1984.0	2092.9	2209.2	2315.8	2389.6	2428.4	2440.3
25°	3175.5	2602.8	1944.5	1857.2	1943.0	2060.0	2163.0	2248.7	2303.9	2323.3	2326.3
27.5°	3197.8	2523.1	1832.6	1797.6	1900.5	2006.4	2077.2	2119.7	2135.4	2133.9	2130.9
30°	3200.8	2417.9	1736.5	1749.2	1851.3	1927.4	1960.9	1952.7	1932.6	1898.3	1901.3
32.5°	3191.1	2299.4	1655.9	1703.0	1788.7	1831.1	1832.6	1793.1	1739.5	1685.0	1670.1
35°	3194.1	2183.1	1585.1	1650.7	1712.7	1731.3	1714.1	1655.9	1582.9	1512.8	1497.9
37.5°	3226.9	2081.6	1524.0	1590.3	1628.3	1632.8	1608.2	1547.1	1493.5	1424.8	1418.8
40°	3305.2	2009.3	1465.8	1522.5	1544.1	1546.4	1511.3	1468.0	1472.5	1436.0	1435.2
42.5°	3446.1	1978.0	1414.4	1451.6	1465.0	1469.5	1442.7	1415.1	1453.9	1430.0	1421.8
45°	3628.0	1985.5	1371.1	1382.3	1406.9	1427.8	1411.4	1377.9	1392.8	1289.1	1254.8
47.5°	3838.3	2033.2	1336.9	1322.7	1365.2	1404.7	1379.3	1328.7	1275.7	1172.8	1153.4
50°	4084.4	2107.1	1305.6	1263.7	1319.7	1373.4	1348.0	1275.7	1195.9	1146.0	1139.3
52.5°	4340.8	2197.2	1274.2	1198.9	1262.2	1349.5	1336.9	1263.7	1165.4	1116.2	1107.2
55°	4631.6	2288.3	1234.7	1123.6	1200.4	1338.4	1331.6	1220.5	1142.3	1114.7	1108.0
57.5°	4993.2	2391.8	1182.5	1045.3	1142.3	1298.1	1277.2	1194.4	1118.4	1097.5	1095.3
60°	5464.5	2544.7	1107.2	961.8	1071.4	1236.2	1231.7	1156.4	1080.3	1065.4	1062.4
62.5°	6171.2	2797.4	1003.6	878.3	992.4	1131.1	1172.1	1105.0	1040.1	1039.3	1040.8
65°	7267.3	3177.7	890.9	805.2	912.6	1042.3	1102.8	1052.0	999.1	1014.0	1016.2
67.5°	8537.7	3493.1	780.6	733.7	831.3	958.1	1040.1	999.1	944.7	983.4	984.2
70°	8960.5	3211.2	683.7	662.8	747.1	876.8	972.3	941.0	885.7	924.6	920.8
72°	8338.7	2592.4	621.1	609.1	683.7	809.7	911.9	886.5	832.1	858.1	848.5
72.5°	8142.6	2471.6	605.4	595.7	666.5	792.6	896.2	873.0	818.6	841.0	832.1
75°	7263.6	2146.6	520.5	522.7	581.6	709.1	808.2	800.8	744.9	747.1	744.1
77.5°	5268.4	1573.9	438.4	453.3	495.0	623.3	719.5	715.1	653.9	642.7	640.4
80°	2444.8	803.0	357.2	363.9	407.1	521.2	613.6	607.6	558.5	544.3	536.1
82.5°	837.3	381.7	268.4	272.9	315.4	419.8	532.4	528.7	487.6	460.0	442.9
85°	299.0	190.1	187.9	183.4	225.2	330.3	463.7	443.6	383.2	326.6	325.1
87.5°	96.9	81.2	96.9	96.1	131.3	223.7	337.0	287.0	278.1	231.1	226.6
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)