

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: STREETWORKS

Report Number: P239514

Luminaire Tested: **UTLD-AF24-100-D-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P239514  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-11-U0)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-100-D-U-T4W  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN UPPER HEMISPHERE NOT REPORTED.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

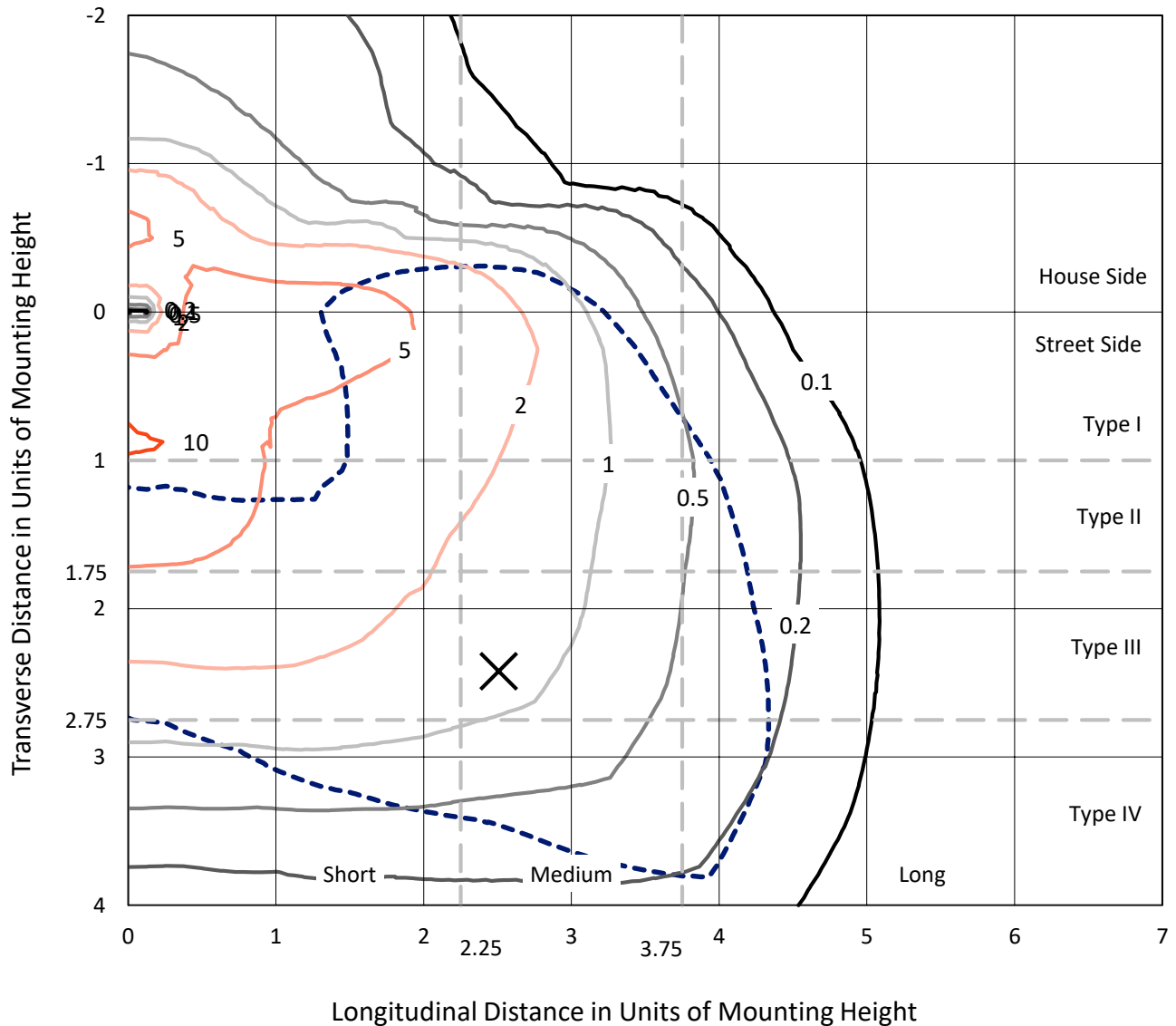
Lumens per Lamp: N/A  
Luminaire Lumens: 8681 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 96  
Input Voltage (V): NR  
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: 28.75 FT



REPORT NUMBER: P239514  
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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

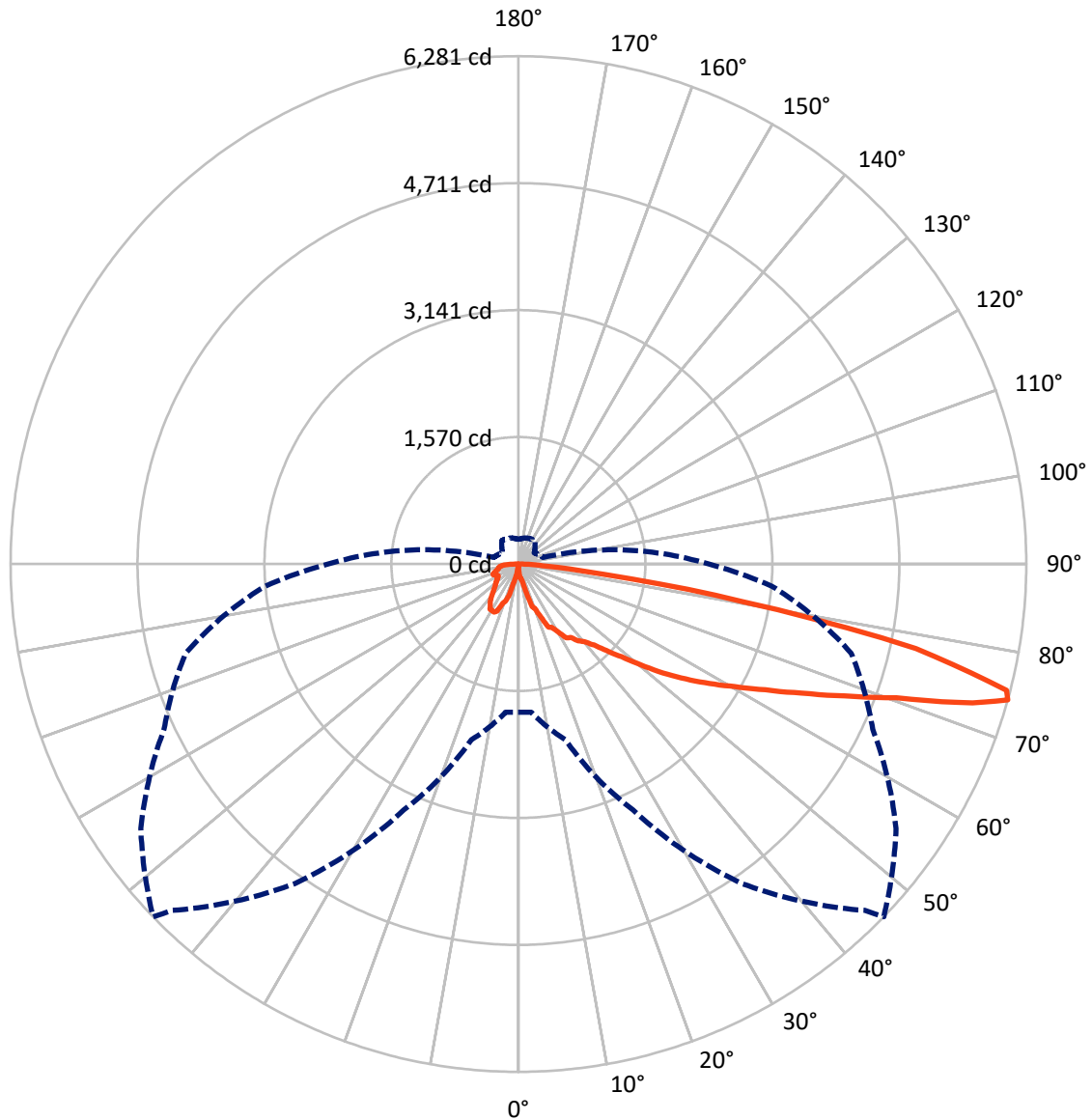


Based on 10 foot mounting height. Maximum calculated value = 10.5 fc  
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P239514

CATALOG NUMBER: UTLD-AF24-100-D-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P239514

CATALOG NUMBER: UTLD-AF24-100-D-U-T4W

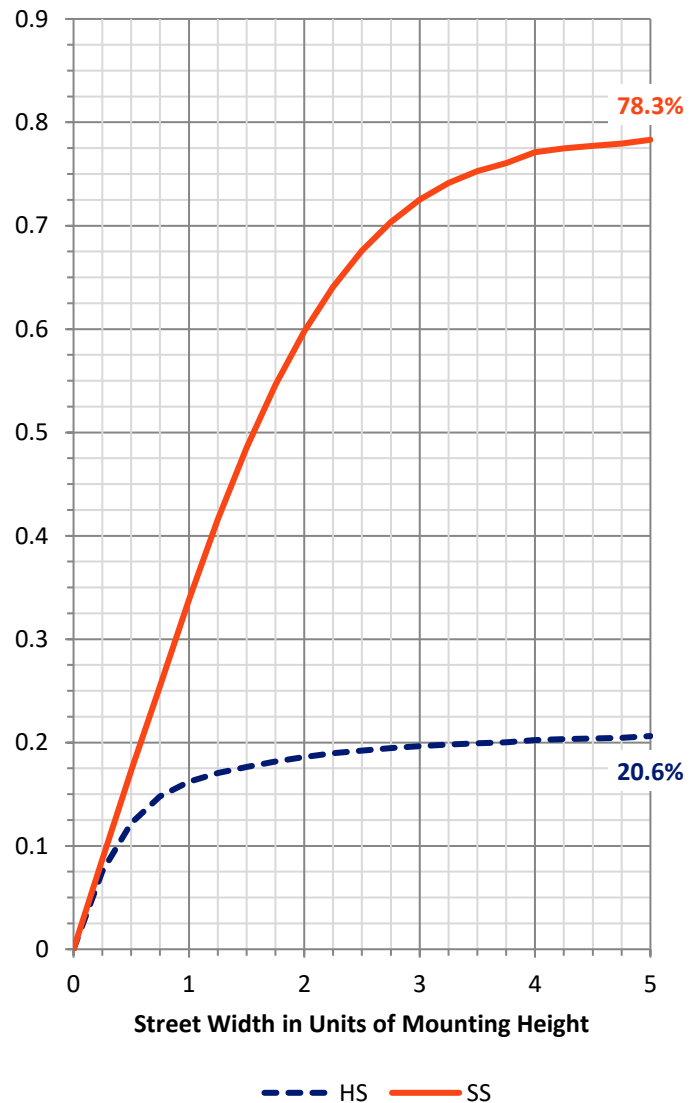
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1851.6	0.0	1851.6
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	6829.4	0.0	6829.4
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	8681.0	0.0	8681.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.0	0.1
10°-20°	108.7	1.3
20°-30°	365.6	4.2
30°-40°	686.6	7.9
40°-50°	1053.3	12.1
50°-60°	1713.7	19.7
60°-70°	2486.6	28.6
70°-80°	1964.0	22.6
80°-90°	294.5	3.4
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°	8681.0	100.0
0°-180°	8681.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P239514

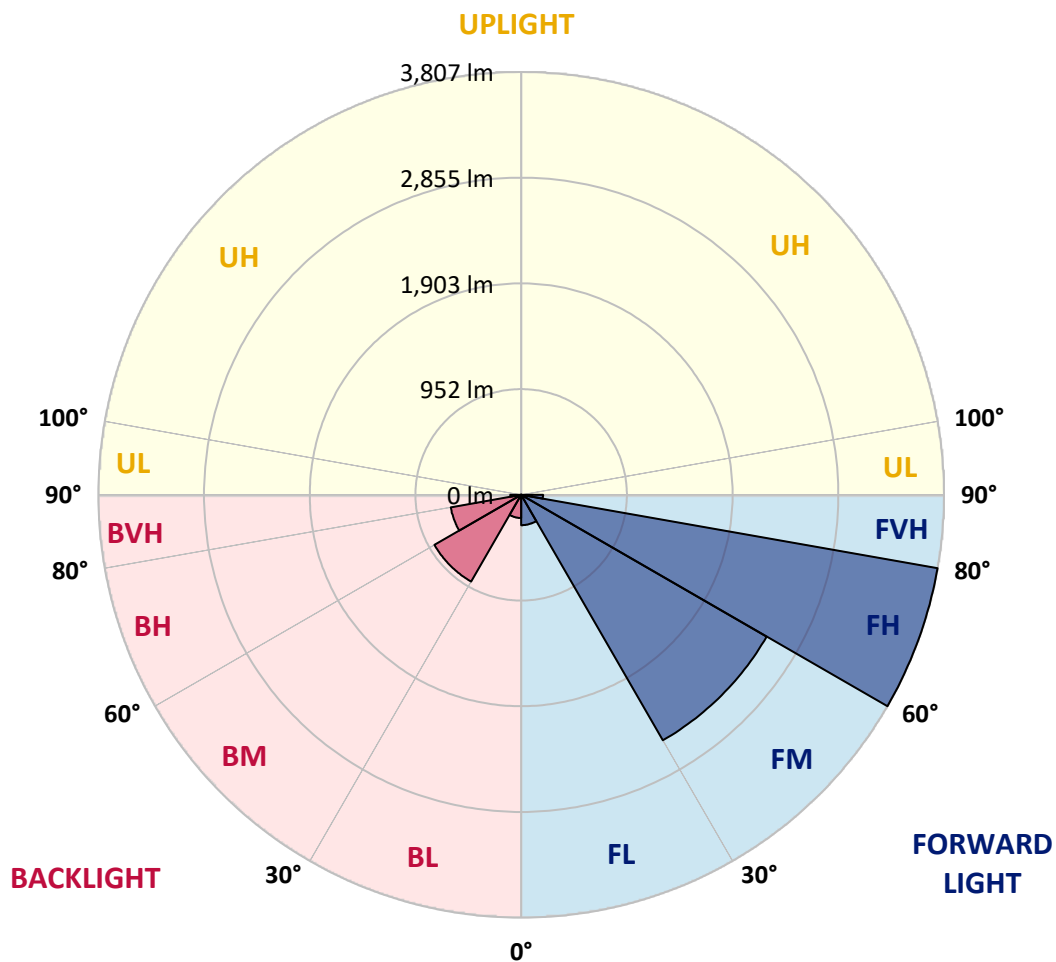
CATALOG NUMBER: UTLD-AF24-100-D-U-T4W

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	273.5	3.2			
FM	(30°-60°)	2552.0	29.4			
FH	(60°-80°)	3806.9	43.9			G2/5000
FVH	(80°-90°)	197.0	2.3			G2/225
BL	(0°-30°)	208.7	2.4	B1/500		
BM	(30°-60°)	901.6	10.4	B1/1000		
BH	(60°-80°)	643.8	7.4	B2/1000		G2/1000
BVH	(80°-90°)	97.5	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Medium





REPORT NUMBER: P239514

CATALOG NUMBER: UTLD-AF24-100-D-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
2.5°	45.1	44.1	44.1	39.1	32.0	14.0	10.0	5.0	3.0	3.0	2.0
5°	184.3	181.3	180.3	175.3	168.3	156.2	154.2	44.1	23.0	4.0	2.0
7.5°	203.3	202.3	198.3	193.3	186.3	176.3	175.3	166.3	65.1	14.0	5.0
10°	398.6	391.6	379.6	246.4	218.3	189.3	188.3	181.3	136.2	39.1	22.0
12.5°	433.7	427.6	417.6	403.6	381.6	229.3	225.3	210.3	310.5	285.4	225.3
15°	510.8	502.8	481.7	428.6	406.6	368.6	367.6	416.6	382.6	342.5	271.4
17.5°	698.0	689.0	674.0	619.9	458.7	556.8	555.8	511.8	414.6	451.7	489.7
20°	746.1	744.1	700.1	668.0	729.1	595.9	589.9	550.8	621.9	606.9	555.8
22.5°	951.4	940.4	928.4	711.1	758.1	712.1	712.1	703.1	697.0	657.0	658.0
25°	976.5	961.4	950.4	868.3	813.2	864.3	863.3	738.1	895.3	883.3	884.3
27.5°	1216.8	1201.8	1133.7	926.4	903.4	891.3	889.3	945.4	944.4	946.4	950.4
30°	1256.9	1240.9	1218.8	1097.7	973.5	971.5	978.5	988.5	1019.5	1172.8	1218.8
32.5°	1526.3	1503.3	1420.1	1134.7	1056.6	1082.6	1088.6	1032.6	1158.7	1217.8	1307.0
35°	1721.6	1673.5	1554.3	1290.9	1093.6	1111.7	1115.7	1153.7	1205.8	1265.9	1368.1
37.5°	2031.1	2006.0	1811.7	1439.2	1188.8	1183.8	1204.8	1198.8	1269.9	1341.0	1456.2
40°	2341.5	2317.5	2202.3	1712.6	1294.9	1241.9	1264.9	1267.9	1311.0	1419.1	1584.4
42.5°	2578.9	2574.9	2536.8	2011.0	1483.2	1346.0	1370.1	1356.0	1417.1	1522.3	1724.6
45°	2760.2	2731.1	2796.2	2262.4	1720.6	1499.3	1526.3	1479.2	1548.3	1715.6	1928.9
47.5°	2947.4	2904.4	2935.4	2505.8	1969.0	1687.5	1714.6	1654.5	1731.6	1941.9	2190.3
50°	3125.7	3088.6	3098.7	2717.1	2238.4	1941.9	1955.9	1883.8	1973.0	2203.3	2556.8
52.5°	3343.0	3302.0	3283.9	2940.4	2560.9	2211.3	2239.4	2120.2	2248.4	2540.8	2965.5
55°	3561.4	3530.3	3537.3	3231.9	2802.2	2466.7	2510.8	2384.6	2571.9	2907.4	3461.2
57.5°	3797.7	3759.7	3825.8	3600.4	3176.8	2735.1	2787.2	2668.0	2937.4	3296.0	4033.1
60°	3944.9	3925.9	4051.1	3912.9	3509.3	3015.5	3077.6	2971.5	3324.0	3756.7	4651.0
62.5°	3968.0	3984.0	4214.3	4208.3	3870.8	3358.1	3426.2	3314.0	3736.6	4202.3	5238.9
65°	3617.4	3658.5	4235.4	4299.5	4245.4	3752.6	3847.8	3707.6	4136.2	4541.8	5607.4
67.5°	3284.9	3331.0	3898.9	4353.5	4565.9	4227.4	4350.5	4174.3	4507.8	4755.2	5678.5
70°	3113.7	3163.8	3678.5	4518.8	4889.4	4806.2	4955.5	4652.0	4759.2	4859.3	5274.9
72.5°	2525.8	2511.8	2959.5	4106.2	5142.7	5654.5	5874.8	5317.0	4897.4	4661.0	4092.2
74°	1831.8	1839.8	2248.4	3355.0	4825.3	6059.1	6281.4	5701.6	4835.3	4260.4	3143.7
75°	1161.7	1153.7	1588.4	2709.1	4280.4	6007.0	6234.4	5764.7	4645.0	3867.8	2506.8
77.5°	384.6	389.6	491.7	965.5	2405.6	4798.2	5027.6	4615.9	3374.1	2515.8	1113.7
80°	181.3	190.3	251.4	391.6	952.4	2673.0	2810.2	2492.7	1757.6	952.4	469.7
82.5°	114.2	119.2	170.3	250.4	502.8	977.5	1073.6	892.3	733.1	493.7	234.4
85°	69.1	72.1	105.2	163.2	328.5	327.5	341.5	347.5	435.7	322.5	145.2
87.5°	38.1	40.1	59.1	87.1	190.3	117.2	124.2	186.3	288.4	230.3	89.1
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: P239514

CATALOG NUMBER: UTLD-AF24-100-D-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
2.5°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
5°	2.0	2.0	2.0	2.0	3.0	4.0	5.0	6.0	7.0	9.0	9.0
7.5°	4.0	4.0	4.0	5.0	6.0	11.0	40.1	124.2	140.2	145.2	146.2
10°	26.0	20.0	15.0	14.0	19.0	134.2	174.3	183.3	188.3	191.3	190.3
12.5°	240.4	252.4	233.4	188.3	138.2	180.3	189.3	194.3	249.4	273.4	270.4
15°	279.4	281.4	280.4	268.4	354.5	233.4	250.4	334.5	367.6	373.6	374.6
17.5°	489.7	512.8	398.6	348.5	376.6	424.6	339.5	367.6	377.6	388.6	389.6
20°	582.9	578.9	536.8	560.8	433.7	493.7	451.7	448.7	526.8	562.8	565.9
22.5°	728.1	684.0	600.9	600.9	619.9	518.8	557.8	514.8	559.8	576.9	579.9
25°	914.4	917.4	848.3	758.1	638.0	641.0	590.9	572.9	687.0	732.1	735.1
27.5°	1015.5	992.5	875.3	785.2	713.1	662.0	607.9	718.1	727.1	752.1	757.1
30°	1291.9	1298.0	1110.7	861.3	688.0	656.0	700.1	728.1	808.2	887.3	895.3
32.5°	1366.1	1356.0	1126.7	893.3	688.0	660.0	660.0	755.1	819.2	870.3	880.3
35°	1438.2	1419.1	1134.7	858.3	667.0	607.9	636.0	704.1	859.3	949.4	958.4
37.5°	1523.3	1501.3	1160.7	799.2	615.9	574.9	580.9	674.0	775.2	853.3	860.3
40°	1632.5	1599.4	1186.8	730.1	559.8	517.8	520.8	591.9	660.0	719.1	733.1
42.5°	1782.7	1721.6	1193.8	666.0	513.8	463.7	459.7	514.8	553.8	564.8	565.9
45°	1996.0	1884.8	1201.8	612.9	470.7	420.6	413.6	449.7	473.7	450.7	449.7
47.5°	2284.4	2110.2	1217.8	573.9	430.6	386.6	379.6	406.6	420.6	387.6	386.6
50°	2665.0	2394.6	1250.9	533.8	397.6	362.5	356.5	370.6	371.6	349.5	347.5
52.5°	3091.7	2713.1	1300.0	488.7	372.6	341.5	333.5	339.5	342.5	329.5	329.5
55°	3605.4	3101.7	1374.1	451.7	346.5	319.5	316.5	324.5	332.5	326.5	327.5
57.5°	4137.2	3528.3	1426.1	414.6	317.5	301.5	307.5	322.5	340.5	350.5	355.5
60°	4652.0	3914.9	1352.0	377.6	294.4	287.4	314.5	348.5	374.6	400.6	406.6
62.5°	5056.6	4166.3	1060.6	345.5	281.4	291.4	351.5	398.6	410.6	416.6	417.6
65°	5188.8	4182.3	708.1	327.5	274.4	320.5	390.6	407.6	388.6	372.6	366.6
67.5°	5027.6	3931.9	492.7	312.5	271.4	347.5	397.6	384.6	367.6	357.5	348.5
70°	4451.7	3330.0	387.6	298.4	268.4	332.5	388.6	368.6	354.5	344.5	332.5
72.5°	3277.9	2319.5	338.5	285.4	255.4	305.5	370.6	355.5	342.5	326.5	316.5
74°	2352.5	1663.5	316.5	274.4	239.4	289.4	355.5	345.5	333.5	313.5	305.5
75°	1795.7	1156.7	302.5	266.4	227.3	278.4	346.5	338.5	325.5	305.5	298.4
77.5°	734.1	469.7	269.4	244.4	209.3	259.4	323.5	317.5	303.5	284.4	277.4
80°	349.5	275.4	239.4	220.3	196.3	249.4	310.5	298.4	281.4	265.4	254.4
82.5°	221.3	190.3	204.3	190.3	182.3	238.4	298.4	282.4	262.4	264.4	217.3
85°	130.2	134.2	161.2	155.2	158.2	208.3	276.4	262.4	234.4	201.3	192.3
87.5°	75.1	98.1	97.1	96.1	116.2	170.3	226.3	218.3	194.3	163.2	152.2
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)