

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: P239345

Luminaire Tested: **UTLD-AF24-30-D-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-42-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-30-D-U-T2U-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
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: 2305 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 31
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



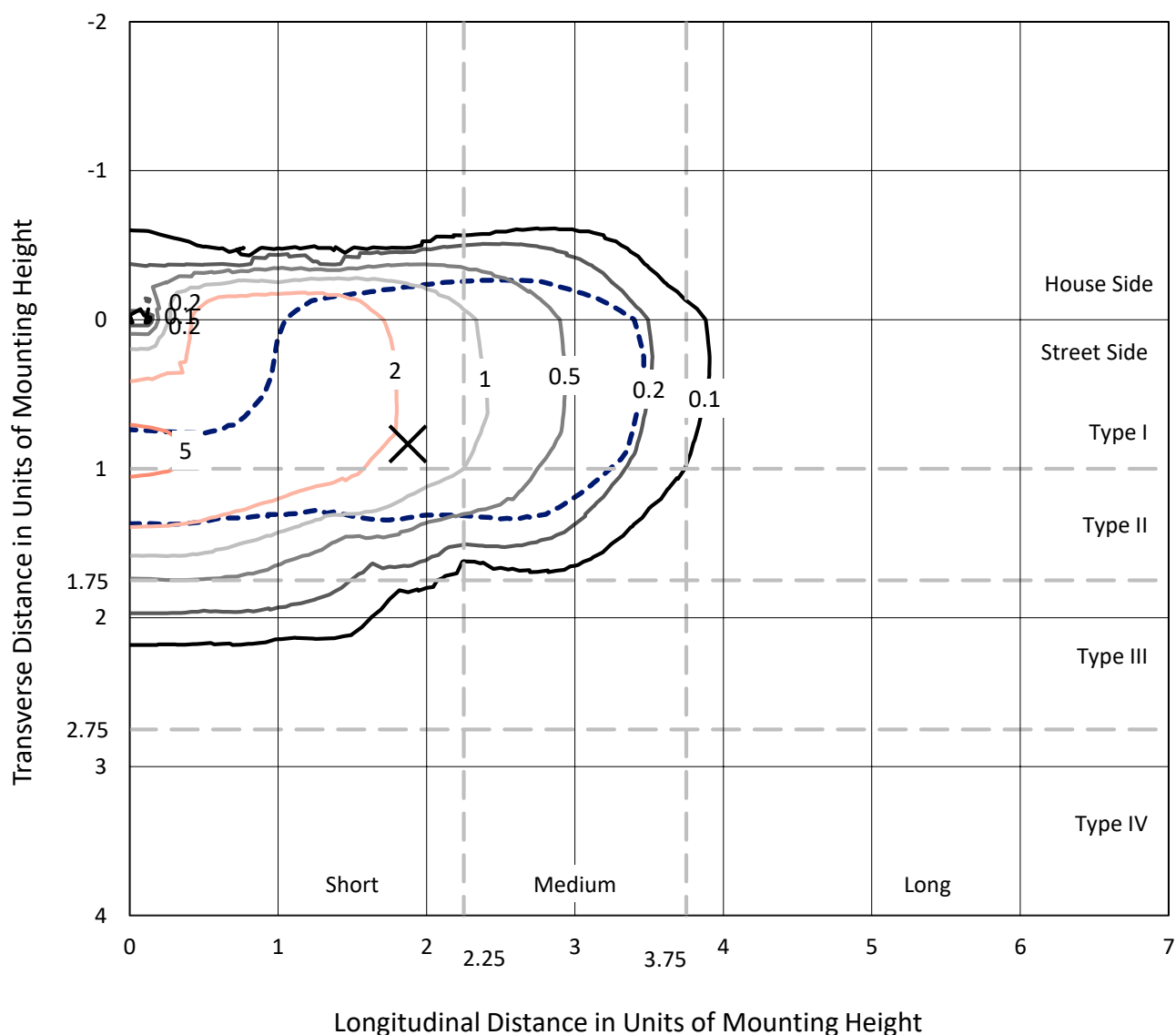
REPORT NUMBER: P239345

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

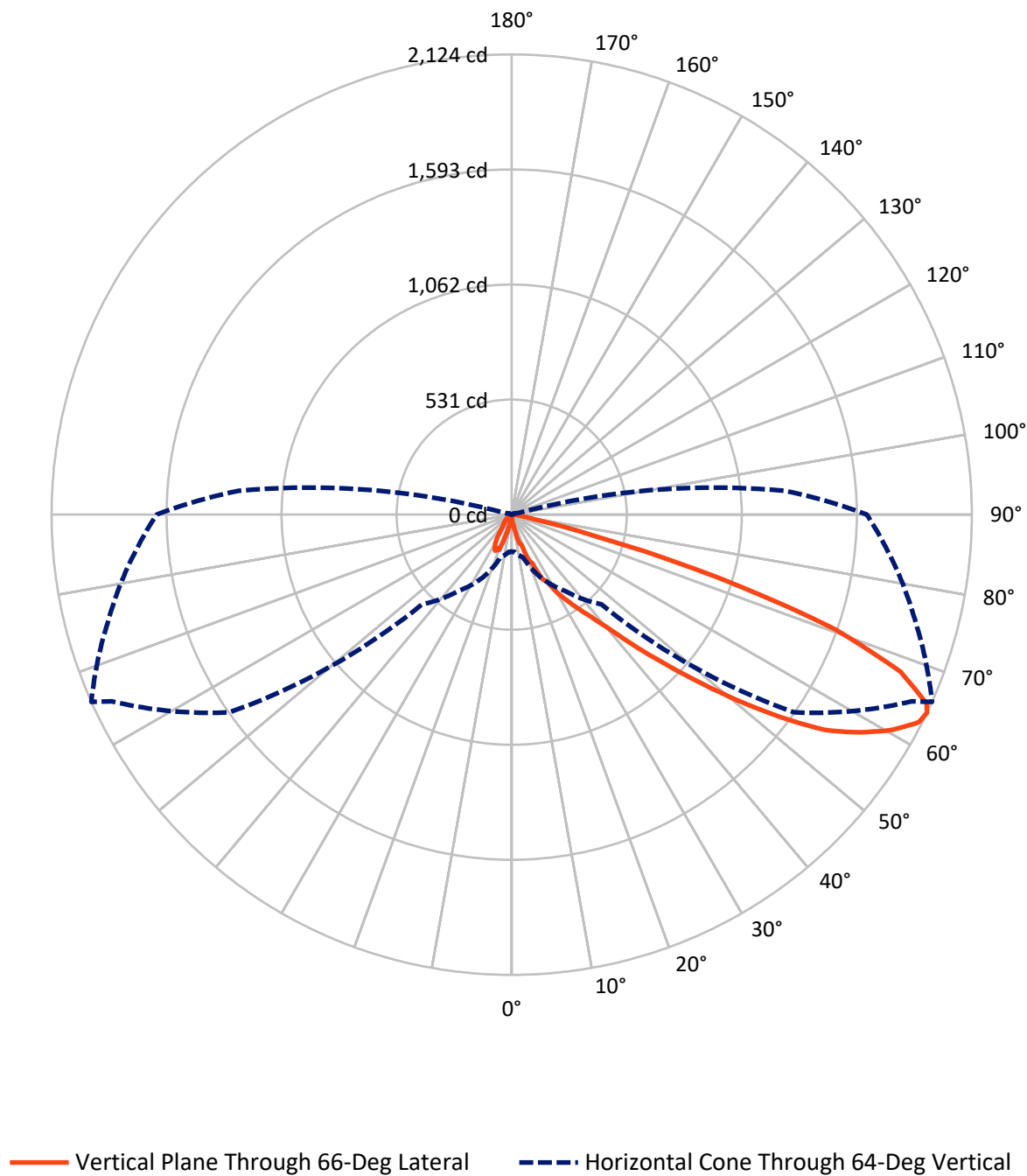


Based on 10 foot mounting height. Maximum calculated value = 6 fc
Type II - Short - Full Cutoff

REPORT NUMBER: P239345

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P239345

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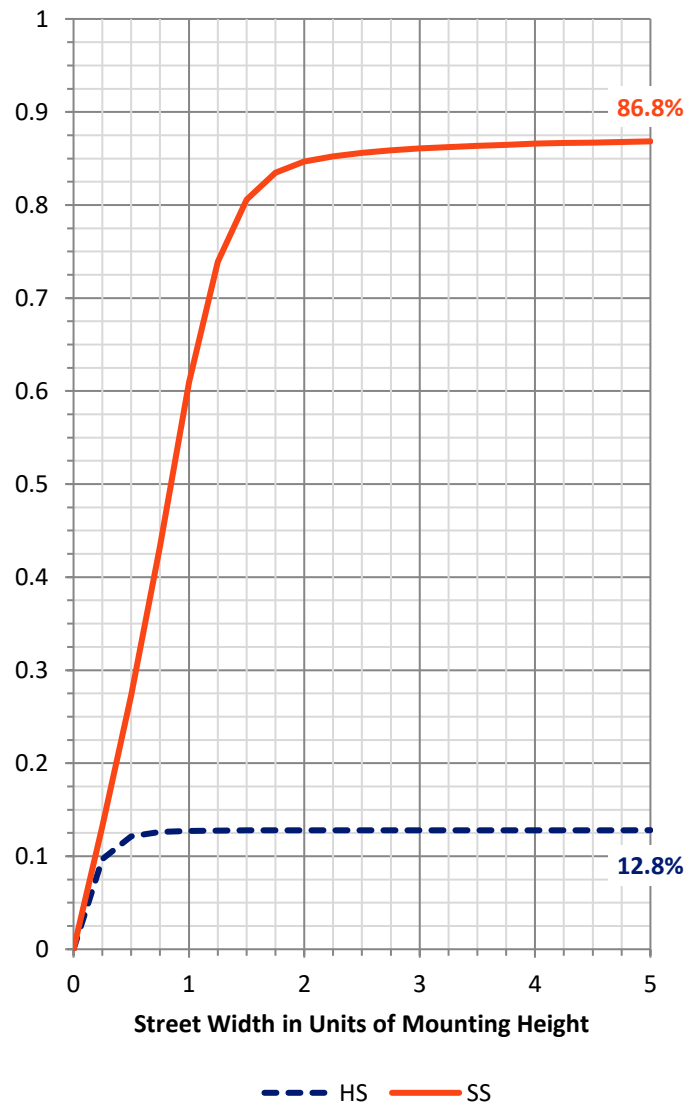
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	298.7	0.0	298.7
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	2006.3	0.0	2006.3
	% Fixture	87.0	0.0	87.0
Total	Lumens	2305.0	0.0	2305.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.1
10°-20°	30.1	1.3
20°-30°	93.5	4.1
30°-40°	234.8	10.2
40°-50°	509.2	22.1
50°-60°	689.5	29.9
60°-70°	542.0	23.5
70°-80°	191.7	8.3
80°-90°	11.5	0.5
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°	2305.0	100.0
0°-180°	2305.0	100.0

Coefficient of Utilization



REPORT NUMBER: P239345

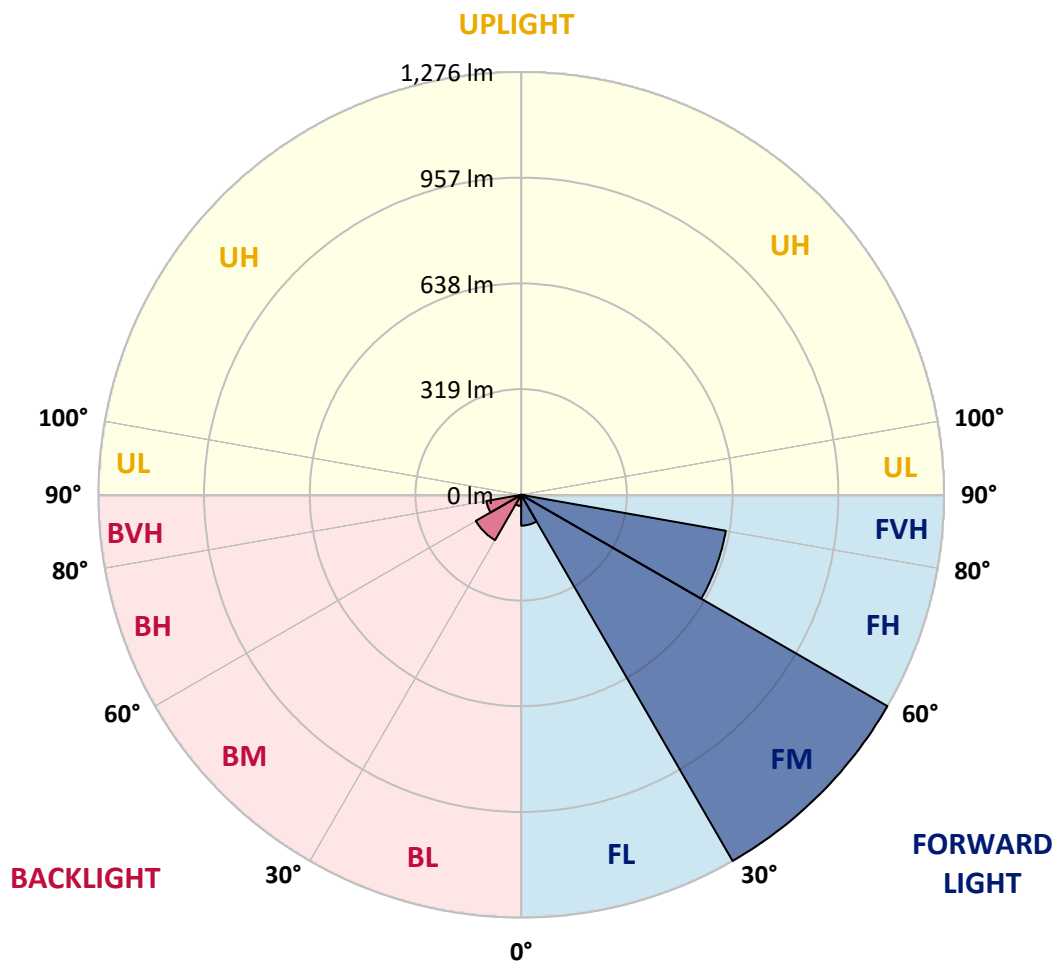
CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	92.9	4.0			
FM	(30°-60°)	1275.8	55.3			
FH	(60°-80°)	627.0	27.2			G0/660
FVH	(80°-90°)	10.7	0.5			G1/100
BL	(0°-30°)	33.4	1.4	B0/110		
BM	(30°-60°)	157.8	6.8	B0/220		
BH	(60°-80°)	106.7	4.6	B0/110		G0/110
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





REPORT NUMBER: P239345

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	8.6	8.2	7.0	5.4	1.9	1.2	0.0	0.0	0.0	0.0	0.0
5°	69.3	69.7	70.1	70.1	70.1	69.7	26.5	1.9	1.6	0.0	0.0
7.5°	67.3	67.7	67.7	67.7	68.1	68.1	68.1	65.8	54.1	1.2	0.0
10°	127.3	127.7	128.5	93.4	69.7	67.0	67.0	54.5	52.5	7.0	2.7
12.5°	125.3	125.7	126.5	126.9	127.7	84.9	70.8	97.3	103.9	135.1	88.4
15°	144.8	151.4	136.6	128.1	128.1	120.3	142.5	137.8	138.2	140.5	90.7
17.5°	189.6	189.2	190.7	192.3	140.5	176.3	184.9	144.4	146.0	163.9	166.6
20°	196.2	197.0	195.0	198.1	232.4	185.3	184.9	220.3	218.8	219.1	197.4
22.5°	267.0	267.8	270.5	224.6	242.9	229.3	241.3	246.0	246.0	230.4	232.4
25°	287.3	285.7	288.4	284.2	286.1	277.1	260.8	314.1	328.9	314.5	313.0
27.5°	399.0	395.5	387.3	316.9	311.4	294.3	343.7	352.3	352.7	349.9	362.8
30°	472.6	473.7	451.1	413.0	346.4	339.0	379.9	411.4	422.3	458.1	447.3
32.5°	704.9	690.5	626.3	490.5	427.8	399.0	422.7	483.5	476.1	499.8	499.8
35°	921.7	896.4	798.7	660.9	500.6	444.5	502.1	520.8	535.2	555.5	562.5
37.5°	1138.2	1128.1	1026.1	838.8	645.0	519.7	566.8	602.6	601.0	627.5	641.1
40°	1330.5	1317.6	1250.3	1061.1	817.0	633.3	657.8	693.3	690.5	740.7	759.4
42.5°	1473.7	1465.1	1421.2	1229.6	1029.6	826.4	794.1	809.3	819.0	872.7	891.8
45°	1551.9	1536.8	1523.9	1363.5	1214.5	1058.0	974.3	956.0	967.7	1020.6	1033.9
47.5°	1535.2	1516.5	1534.8	1443.3	1377.2	1260.4	1211.7	1150.6	1142.1	1210.2	1185.3
50°	1404.4	1392.7	1449.6	1443.3	1470.6	1428.2	1480.3	1355.4	1341.8	1379.9	1336.3
52.5°	1172.8	1172.8	1260.8	1318.4	1469.0	1548.4	1714.7	1573.7	1551.6	1544.6	1451.1
55°	934.6	940.8	1023.3	1106.6	1341.0	1580.8	1910.4	1774.2	1754.7	1662.1	1537.5
57.5°	676.1	683.1	801.1	870.8	1099.6	1470.2	1985.2	1903.8	1896.0	1756.3	1617.3
60°	396.3	413.0	537.9	655.1	794.1	1183.7	1955.6	1993.0	2017.9	1832.2	1675.7
62.5°	233.6	240.6	284.2	444.1	548.8	805.4	1793.7	2037.3	2109.7	1896.4	1721.3
64°	170.5	174.0	205.1	321.5	429.7	585.0	1590.1	2037.3	2124.1	1931.1	1733.7
65°	139.4	140.9	162.7	257.3	363.6	447.6	1399.0	2020.2	2105.1	1948.2	1731.0
67.5°	113.3	114.4	119.9	147.1	250.3	246.0	827.2	1868.8	1935.7	1966.9	1689.0
70°	102.0	103.2	112.5	114.8	184.9	163.9	266.6	1536.0	1581.1	1870.4	1599.4
72.5°	77.5	80.6	97.3	111.7	128.1	122.6	127.7	947.0	999.6	1424.3	1364.7
75°	52.9	56.1	72.4	95.0	98.9	92.3	96.1	363.6	407.2	740.0	823.3
77.5°	33.9	34.3	45.2	68.9	88.4	63.1	72.8	102.4	119.1	250.7	256.5
80°	22.2	23.0	27.2	44.0	60.3	52.5	44.8	55.3	56.1	74.0	39.3
82.5°	13.6	13.2	17.9	27.2	37.0	44.4	27.6	35.8	37.4	43.6	16.7
85°	5.8	6.2	11.3	17.5	23.0	21.4	17.1	21.8	22.6	28.8	9.7
87.5°	2.3	2.3	6.6	9.7	10.1	10.1	10.5	11.7	11.7	17.9	6.2
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: P239345

CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.4	0.4	0.0	0.0	1.6	35.8	51.4	51.4
10°	2.7	2.3	0.0	0.4	0.4	17.9	57.2	57.2	56.1	55.3	54.9
12.5°	87.6	100.8	96.5	41.6	32.3	51.0	54.1	47.9	42.8	40.5	39.7
15°	104.7	104.3	101.6	82.5	115.6	51.8	41.3	49.8	42.8	37.0	37.0
17.5°	174.4	165.4	138.2	112.1	104.7	70.1	41.6	28.4	23.4	21.8	21.8
20°	207.5	203.6	177.9	172.8	95.8	57.6	29.2	19.5	22.2	24.9	24.9
22.5°	255.0	253.0	186.8	164.7	95.4	35.0	23.4	23.4	23.0	21.8	21.8
25°	306.3	308.3	263.5	174.4	65.0	29.2	24.1	20.2	17.9	19.5	19.9
27.5°	373.7	324.6	265.5	160.8	44.4	27.2	20.6	19.5	19.1	18.3	18.3
30°	450.0	439.5	339.8	133.9	33.9	24.5	19.5	17.1	15.2	16.0	16.0
32.5°	502.5	470.2	333.6	101.2	29.2	21.4	16.7	14.4	14.8	15.2	14.8
35°	555.5	518.9	336.3	65.0	26.1	17.5	13.6	12.8	12.5	14.0	14.0
37.5°	630.6	584.3	331.3	40.9	21.8	14.4	11.7	11.3	11.7	12.1	12.1
40°	722.8	669.9	319.2	30.8	17.9	11.7	9.7	9.3	10.1	10.1	10.1
42.5°	833.4	763.3	287.7	26.9	15.2	9.3	7.8	7.8	8.6	8.6	8.6
45°	965.3	877.4	247.6	23.7	12.8	7.8	6.2	6.6	7.0	7.0	7.0
47.5°	1110.5	1002.7	196.6	20.6	10.9	6.2	5.1	5.1	5.4	5.4	5.4
50°	1244.8	1106.3	154.9	18.3	9.0	5.1	3.9	3.9	3.9	3.9	3.9
52.5°	1343.7	1174.4	112.9	16.0	7.8	3.9	2.7	2.7	2.7	2.7	2.7
55°	1424.3	1219.5	81.7	13.6	6.2	3.1	1.9	1.6	1.9	1.6	1.6
57.5°	1495.1	1247.9	58.8	11.3	5.1	1.9	0.8	0.8	0.8	0.8	0.8
60°	1559.3	1263.1	43.6	9.3	4.3	1.2	0.8	0.4	0.4	0.0	0.0
62.5°	1617.7	1268.6	33.1	7.4	3.5	0.8	0.4	0.0	0.0	0.0	0.0
64°	1639.1	1263.5	28.4	6.6	3.1	0.4	0.4	0.0	0.0	0.0	0.0
65°	1645.8	1251.4	25.7	5.8	2.7	0.4	0.4	0.0	0.0	0.0	0.0
67.5°	1625.5	1196.6	19.1	4.7	2.3	0.4	0.4	0.0	0.0	0.0	0.0
70°	1546.5	1093.0	14.0	3.9	1.6	0.0	0.4	0.0	0.0	0.0	0.0
72.5°	1264.7	825.2	10.1	3.1	1.6	0.0	0.4	0.0	0.0	0.0	0.0
75°	759.4	348.0	7.4	2.3	1.6	0.0	0.8	0.0	0.0	0.0	0.0
77.5°	229.3	112.1	5.4	1.9	1.9	0.0	1.2	0.4	0.0	0.0	0.0
80°	30.8	16.7	3.1	1.6	1.9	0.0	1.6	0.4	0.0	0.0	0.0
82.5°	11.3	5.4	1.9	1.6	1.9	0.0	1.6	1.2	0.4	0.4	0.0
85°	4.3	3.1	1.6	1.2	2.3	0.0	1.9	1.2	0.4	0.4	0.0
87.5°	1.9	1.6	1.2	1.2	2.3	0.0	1.9	1.6	0.4	0.4	0.0
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)