

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: P266308

Luminaire Tested: **UTLD-AF24-30-D-U-T2U-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-33)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-30-D-U-T2U-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2699.1 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U2 - 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



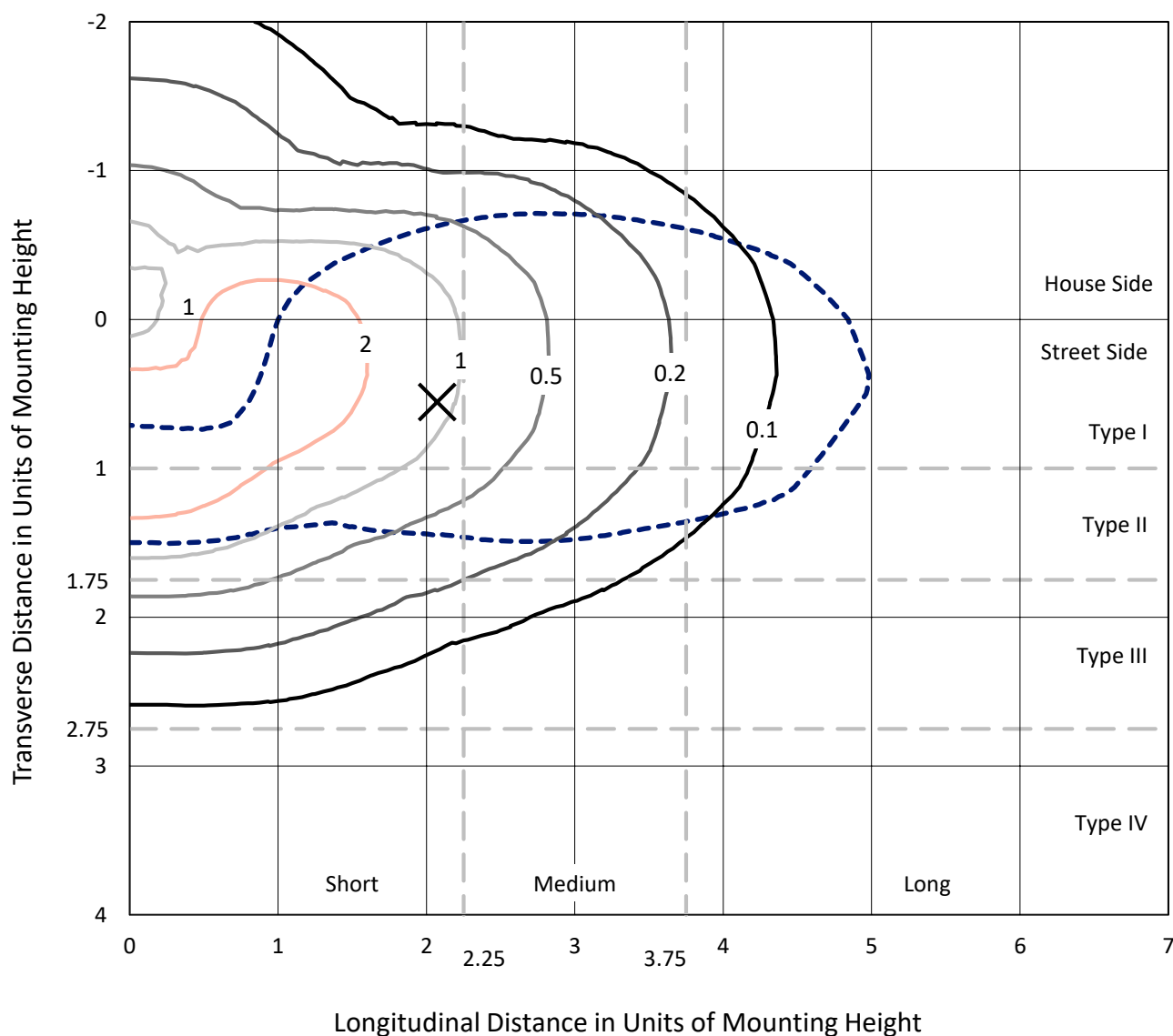
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

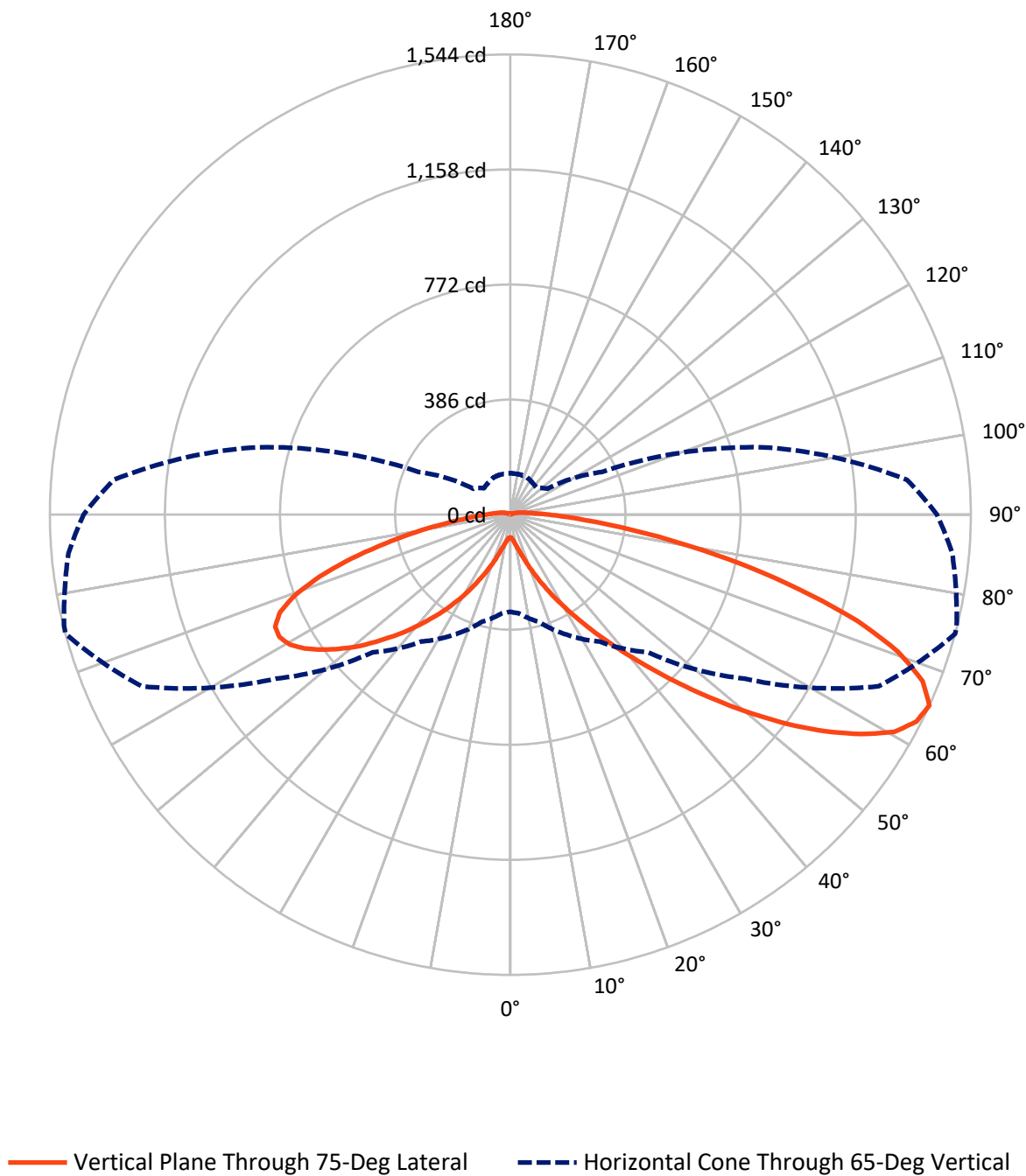


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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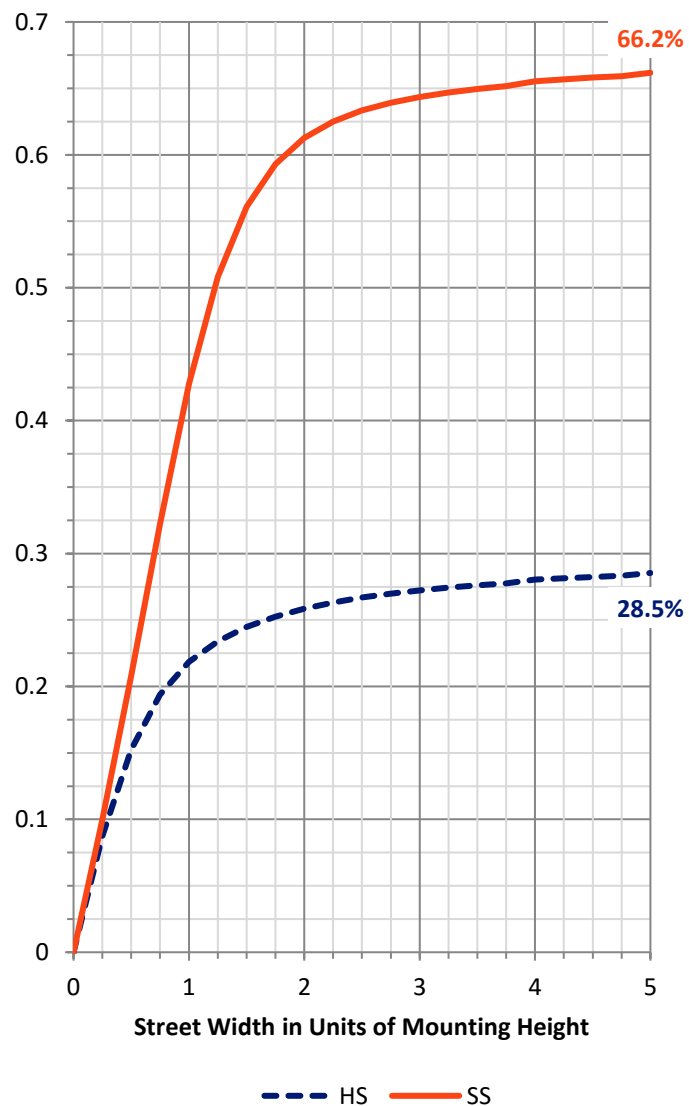
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	796.9	47.8	844.8
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	1811.3	43.0	1854.3
	% Fixture	67.1	1.6	68.7
Total	Lumens	2608.3	90.8	2699.1
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.3
10°-20°	39.0	1.4
20°-30°	113.8	4.2
30°-40°	255.3	9.5
40°-50°	454.3	16.8
50°-60°	617.4	22.9
60°-70°	599.6	22.2
70°-80°	377.9	14.0
80°-90°	142.5	5.3
90°-100°	48.5	1.8
100°-110°	22.0	0.8
110°-120°	10.6	0.4
120°-130°	5.6	0.2
130°-140°	2.9	0.1
140°-150°	1.1	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2608.3	96.6
0°-180°	2699.1	100.0

Coefficient of Utilization



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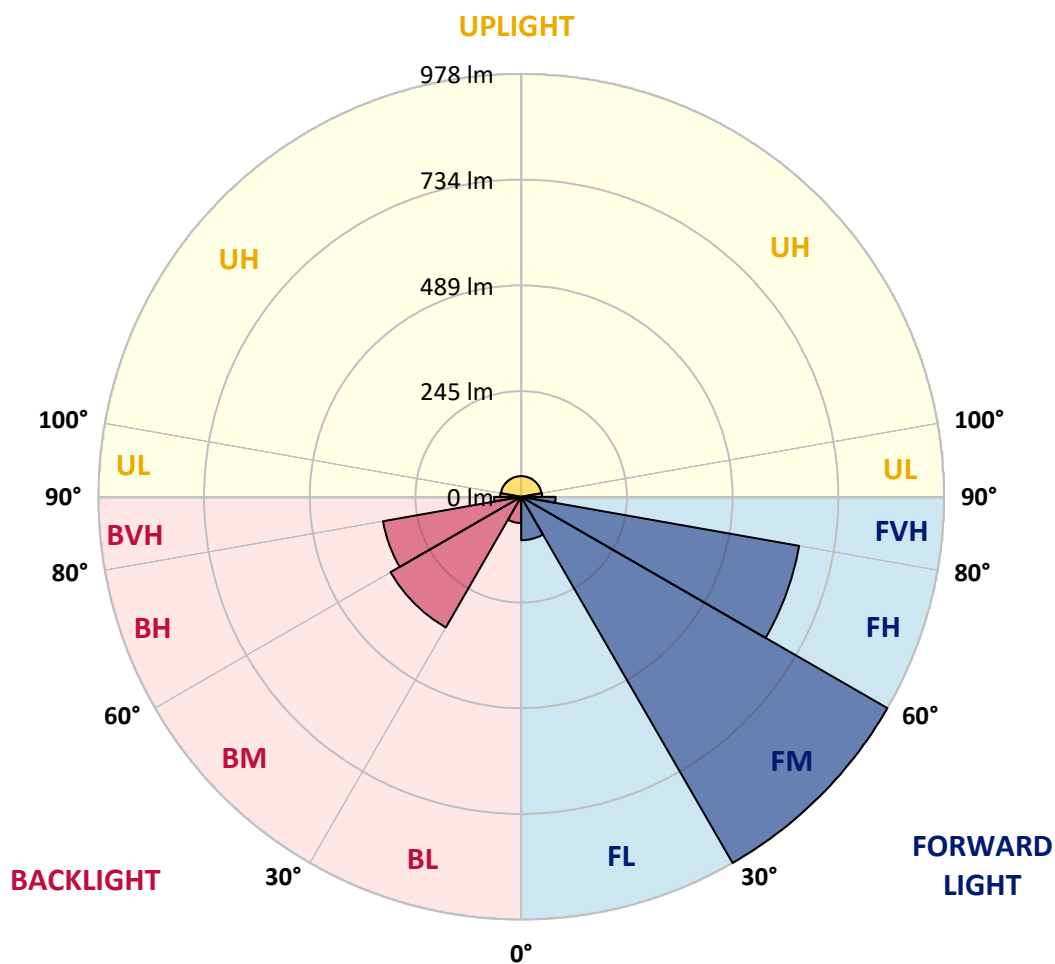
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	100.5	3.7			
FM	(30°-60°)	978.2	36.2			
FH	(60°-80°)	652.9	24.2			G0/660
FVH	(80°-90°)	79.8	3.0			G1/100
BL	(0°-30°)	60.8	2.3	B0/110		
BM	(30°-60°)	348.9	12.9	B1/1000		
BH	(60°-80°)	324.6	12.0	B1/500		G1/500
BVH	(80°-90°)	62.8	2.3			G1/100
UL	(90°-100°)	48.5	1.8		U2/50	
UH	(100°-180°)	47.8	1.8		U2/50	

BUG Rating: B1-U2-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
2.5°	83.5	83.2	83.2	83.2	82.5	81.7	80.8	80.0	79.1	78.7	78.4
5°	92.3	92.3	91.9	91.5	90.9	89.2	87.6	86.1	84.5	84.3	82.9
7.5°	106.1	105.8	105.6	103.8	102.8	100.4	97.6	95.7	92.6	92.6	90.5
10°	124.3	123.7	122.7	121.0	117.3	114.3	111.2	107.4	104.5	104.2	101.1
12.5°	146.1	146.1	144.6	141.4	136.5	132.2	127.1	123.1	118.9	118.7	115.9
15°	175.8	176.1	171.8	166.6	159.9	153.2	146.8	143.0	138.2	139.2	135.6
17.5°	212.5	211.9	208.2	198.0	186.9	178.1	170.7	166.6	163.0	163.2	160.5
20°	258.9	258.3	251.9	238.3	220.1	206.9	198.0	195.4	193.3	192.3	189.6
22.5°	316.1	312.7	299.9	282.2	260.2	241.4	231.9	227.8	227.1	227.5	224.8
25°	380.0	378.5	362.3	334.3	306.0	281.6	267.1	266.3	267.3	265.7	265.7
27.5°	457.6	454.0	435.0	396.2	355.5	326.5	309.6	307.9	312.7	311.4	309.2
30°	548.7	542.8	517.2	467.5	415.5	376.6	356.9	356.9	362.0	362.0	361.4
32.5°	643.6	642.6	602.8	544.6	483.1	431.6	414.7	412.1	417.2	419.9	416.5
35°	750.4	742.7	696.6	630.8	551.3	494.8	473.9	477.7	481.8	482.0	476.6
37.5°	859.3	851.6	798.8	717.2	624.7	563.9	542.1	544.9	551.3	551.3	544.3
40°	952.6	944.1	892.3	807.5	705.8	640.6	617.6	625.4	629.7	631.5	619.9
42.5°	1026.3	1020.1	973.9	887.3	784.0	717.7	702.7	715.6	720.0	723.3	706.8
45°	1067.5	1062.4	1030.4	952.3	849.4	794.7	797.4	813.0	821.4	817.6	799.9
47.5°	1074.0	1069.9	1051.9	992.4	909.7	868.8	894.4	917.8	930.6	931.0	900.6
50°	1033.9	1035.7	1036.0	1001.9	943.4	928.8	985.0	1037.5	1047.2	1041.9	1006.0
52.5°	956.7	955.5	975.2	975.2	949.5	966.0	1061.1	1154.7	1168.2	1166.9	1117.2
55°	841.7	842.7	879.3	907.9	917.3	973.9	1123.3	1260.9	1283.1	1281.2	1226.4
57.5°	698.7	708.6	753.5	808.6	851.6	940.7	1151.9	1352.0	1388.6	1389.0	1322.8
60°	559.7	570.0	622.3	693.0	755.1	876.8	1132.8	1399.5	1479.6	1475.8	1405.6
62.5°	427.7	438.2	488.5	568.8	641.2	774.8	1067.1	1409.3	1527.8	1525.5	1465.0
65°	325.5	332.4	372.8	443.6	519.6	652.8	959.3	1362.5	1543.7	1542.1	1487.1
67.5°	243.4	246.4	284.9	342.1	408.0	528.1	810.2	1250.4	1491.0	1492.8	1462.0
70°	187.2	189.4	217.4	267.1	316.1	412.7	656.4	1088.4	1380.2	1384.6	1383.6
72.5°	148.7	151.8	174.1	210.3	245.7	312.7	507.7	880.6	1215.9	1225.0	1252.3
75°	122.7	126.1	143.0	169.7	195.4	238.1	369.2	675.7	999.5	1018.8	1079.7
77.5°	101.4	104.8	118.9	140.0	155.9	181.8	270.4	499.5	785.3	793.4	873.8
80°	83.2	86.1	99.1	115.3	126.8	142.0	197.1	350.9	572.6	582.8	661.2
82.5°	66.3	69.0	80.8	94.0	103.5	113.9	146.1	240.3	398.8	406.4	458.0
85°	51.1	53.8	63.9	75.4	83.5	91.9	111.8	167.4	264.0	272.7	310.6
87.5°	38.2	40.6	49.0	58.7	67.3	74.4	86.1	115.6	176.1	183.6	201.5
90°	28.0	29.7	37.2	44.6	52.5	60.1	67.6	84.5	117.3	120.4	132.9
92.5°	21.0	22.0	28.0	34.5	42.0	48.7	53.4	62.3	82.5	82.9	91.5
95°	15.5	16.6	21.6	27.0	33.4	39.9	43.9	48.4	60.5	61.5	67.0
97.5°	12.4	12.8	17.2	22.0	27.4	32.8	36.2	38.5	46.4	47.3	51.1
100°	10.5	10.8	14.6	18.5	23.4	28.0	30.5	31.4	36.6	37.5	40.2
102.5°	9.2	9.2	12.4	16.2	20.3	23.6	25.3	26.1	29.5	29.5	31.4
105°	8.2	8.2	10.8	14.3	17.5	20.7	21.6	21.6	22.9	23.4	24.3
107.5°	7.5	7.5	9.8	12.8	15.5	18.0	18.5	18.0	18.2	18.2	19.0
110°	6.7	6.7	8.4	11.5	13.8	15.5	15.9	15.2	14.3	14.3	14.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	6.1	6.4	7.7	10.2	12.1	13.8	13.8	12.8	11.1	11.1	11.9
115°	5.7	5.7	7.0	9.2	10.8	12.1	12.1	10.8	9.2	8.9	9.4
117.5°	5.4	5.4	6.1	8.2	9.8	10.8	10.8	9.2	7.5	7.5	8.2
120°	5.1	5.1	5.7	7.5	8.9	9.8	9.4	8.2	6.4	6.4	7.0
122.5°	5.1	5.1	5.4	6.7	7.7	8.4	8.2	6.7	5.4	5.4	6.1
125°	4.8	4.8	5.1	6.1	7.0	7.7	7.0	5.7	5.1	5.1	5.4
127.5°	4.8	4.8	4.8	5.4	6.4	6.7	6.4	5.1	4.4	4.4	5.1
130°	4.4	4.4	4.8	5.1	5.7	6.1	5.4	4.4	4.0	4.0	4.8
132.5°	4.4	4.4	4.4	4.4	4.8	5.1	4.4	3.4	3.8	3.8	4.0
135°	4.0	4.0	4.0	4.0	4.4	4.4	3.8	3.1	3.4	3.4	3.8
137.5°	3.8	3.8	3.8	3.8	3.8	3.4	3.1	2.8	3.1	3.1	3.4
140°	3.4	3.4	3.4	3.1	2.8	2.8	2.3	2.1	2.3	2.3	2.8
142.5°	3.1	3.1	3.1	2.8	2.3	2.1	1.6	1.6	2.1	2.1	2.3
145°	2.8	2.8	2.3	2.1	1.6	1.3	1.0	1.3	1.6	1.6	2.1
147.5°	2.1	2.1	2.1	1.6	1.0	0.7	0.7	1.0	1.3	1.3	1.3
150°	1.6	1.6	1.6	1.3	0.7	0.3	0.3	0.7	0.7	0.7	1.0
152.5°	1.0	1.0	1.0	1.0	0.3	0.0	0.0	0.3	0.7	0.7	0.7
155°	0.7	0.7	0.7	0.3	0.3	0.0	0.0	0.3	0.3	0.3	0.3
157.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3	0.3	0.3
160°	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.3	0.0
162.5°	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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°	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
2.5°	78.2	77.8	77.1	76.4	75.6	75.1	74.4	74.0	73.3	73.3	73.3
5°	82.1	81.1	79.8	78.4	77.1	76.0	75.1	74.0	73.3	73.0	72.7
7.5°	89.7	88.3	85.9	83.8	81.4	79.4	77.8	76.4	75.6	75.4	75.4
10°	99.7	98.1	95.0	90.9	88.3	85.2	82.5	80.8	79.4	79.1	78.7
12.5°	113.2	111.6	106.4	102.0	96.9	92.3	89.2	87.2	86.1	85.9	85.9
15°	132.5	130.4	122.3	115.0	106.8	101.1	96.9	95.3	95.7	96.7	95.7
17.5°	156.6	153.5	144.0	131.8	119.7	110.9	107.2	107.4	108.9	109.9	109.6
20°	186.3	181.8	168.7	151.5	134.8	123.1	119.4	119.7	121.4	124.3	124.1
22.5°	221.1	214.3	197.4	174.1	150.7	137.3	130.4	131.5	135.3	138.2	138.2
25°	259.3	253.2	229.2	198.0	169.1	149.1	140.7	142.0	147.4	150.7	151.8
27.5°	304.5	295.2	265.4	224.8	186.3	159.5	149.1	149.7	156.6	160.8	161.5
30°	352.9	341.7	304.5	251.4	201.5	167.7	154.1	155.4	163.0	168.1	169.1
32.5°	407.3	394.1	345.5	279.6	215.7	172.4	156.8	158.2	165.9	171.8	172.4
35°	467.8	448.6	389.4	305.2	225.1	174.1	156.8	158.6	165.9	171.8	172.7
37.5°	529.3	507.7	432.4	329.9	230.9	172.7	154.5	156.6	163.2	168.7	169.7
40°	601.1	573.3	479.3	350.2	232.9	169.1	150.5	152.8	158.6	163.0	163.6
42.5°	682.8	643.6	528.7	367.4	229.8	164.3	146.3	149.1	153.8	156.8	157.3
45°	767.7	720.4	576.7	380.9	225.5	158.6	142.3	145.3	149.4	150.0	150.7
47.5°	859.3	806.6	629.1	389.1	217.7	152.4	139.2	142.3	145.0	144.6	145.0
50°	960.6	895.8	682.5	392.5	208.9	147.4	136.9	140.2	142.3	140.7	140.7
52.5°	1059.7	993.4	731.2	393.7	199.2	142.7	135.3	139.2	140.2	138.6	138.6
55°	1165.2	1083.7	779.9	390.0	189.4	139.0	134.6	139.0	139.5	137.3	137.3
57.5°	1262.6	1180.1	823.7	384.4	180.2	135.6	133.5	138.6	139.2	137.3	137.6
60°	1352.0	1261.8	857.9	375.0	170.4	132.2	132.9	138.6	139.2	137.9	138.6
62.5°	1406.8	1315.9	875.8	360.0	160.8	129.1	131.8	137.9	139.2	138.2	139.0
65°	1430.6	1335.2	873.5	338.8	151.8	125.5	129.8	136.5	138.2	138.2	139.0
67.5°	1412.7	1317.6	838.9	311.4	143.3	121.7	127.1	133.8	136.3	136.9	137.9
70°	1346.0	1245.1	769.7	276.9	134.1	117.7	123.7	130.2	132.9	134.1	134.8
72.5°	1213.3	1122.9	671.4	242.4	124.8	112.6	118.7	124.8	127.7	129.4	129.4
75°	1044.5	954.3	552.6	205.8	115.9	106.8	112.6	117.7	121.0	122.7	122.0
77.5°	840.4	756.2	429.3	168.7	106.4	100.0	105.6	109.9	112.6	113.9	112.2
80°	622.6	568.8	322.5	139.2	96.9	92.3	96.7	100.4	103.5	103.0	101.8
82.5°	441.4	390.8	225.8	115.6	87.6	83.8	87.2	89.7	91.5	90.9	88.6
85°	294.0	261.0	159.5	94.3	77.8	74.6	76.7	78.2	79.1	77.4	75.6
87.5°	191.2	170.4	115.0	77.8	67.3	65.2	66.3	66.6	67.0	65.2	63.2
90°	125.0	116.3	85.5	64.1	57.9	56.5	56.5	55.1	55.4	53.4	51.5
92.5°	88.3	82.9	66.6	52.7	49.3	48.4	48.0	46.4	46.0	43.9	42.6
95°	65.9	63.5	53.8	44.6	42.0	41.6	41.0	39.3	37.9	35.8	35.2
97.5°	51.5	50.3	44.2	38.2	36.2	35.6	35.2	33.1	32.1	30.2	29.5
100°	41.0	41.0	37.2	32.8	31.1	30.7	30.5	28.3	27.4	25.3	25.1
102.5°	32.8	33.1	31.1	28.3	27.0	26.4	25.7	24.3	22.6	21.3	21.3
105°	25.7	26.4	25.7	24.1	23.4	22.6	22.0	20.7	19.0	17.5	17.5
107.5°	20.3	21.0	21.0	20.7	19.7	19.3	19.0	17.2	15.9	14.6	14.6
110°	15.5	16.6	17.2	17.2	17.2	16.6	15.9	14.9	13.1	12.1	12.1



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CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	12.4	13.1	14.3	14.6	14.6	14.6	13.8	12.1	10.8	10.2	10.5
115°	10.2	10.8	11.9	12.4	12.4	12.4	11.5	10.5	9.2	8.9	8.9
117.5°	8.4	9.2	9.8	10.8	10.8	10.8	10.2	8.9	7.5	7.5	7.5
120°	7.5	7.7	8.9	9.2	9.4	9.4	8.9	7.5	6.4	6.4	6.7
122.5°	6.4	6.7	7.5	8.2	8.4	8.2	7.5	6.1	5.4	5.7	5.7
125°	5.7	6.1	6.4	7.0	7.5	7.0	6.4	5.1	4.8	5.1	5.1
127.5°	5.4	5.4	5.7	6.1	6.4	6.1	5.4	4.4	4.0	4.8	4.8
130°	4.8	5.1	5.1	5.4	5.4	5.4	4.8	3.8	3.8	4.0	4.0
132.5°	4.4	4.4	4.4	4.8	4.8	4.4	3.8	3.1	3.4	3.8	3.8
135°	3.8	4.0	4.0	4.0	4.0	3.8	3.1	2.8	3.1	3.4	3.4
137.5°	3.4	3.4	3.4	3.4	3.4	3.1	2.8	2.3	2.8	2.8	2.8
140°	2.8	3.1	3.1	2.8	2.8	2.3	2.1	1.6	2.1	2.3	2.3
142.5°	2.3	2.3	2.3	2.3	2.1	1.6	1.3	1.3	1.6	1.6	1.6
145°	2.1	2.1	2.1	1.6	1.3	1.3	1.0	1.0	1.3	1.3	1.6
147.5°	1.3	1.3	1.3	1.3	1.0	1.0	0.7	0.7	1.0	1.0	1.0
150°	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.3	0.7	0.7	0.7
152.5°	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3
155°	0.3	0.3	0.7	0.7	0.3	0.3	0.3	0.0	0.0	0.0	0.0
157.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
160°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
162.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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)