

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: P266435

Luminaire Tested: **UTLD-AF24-70-D-U-SL3-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-48)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-70-D-U-SL3-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5786.9 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U2 - G2

Input Watts (W): 74
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

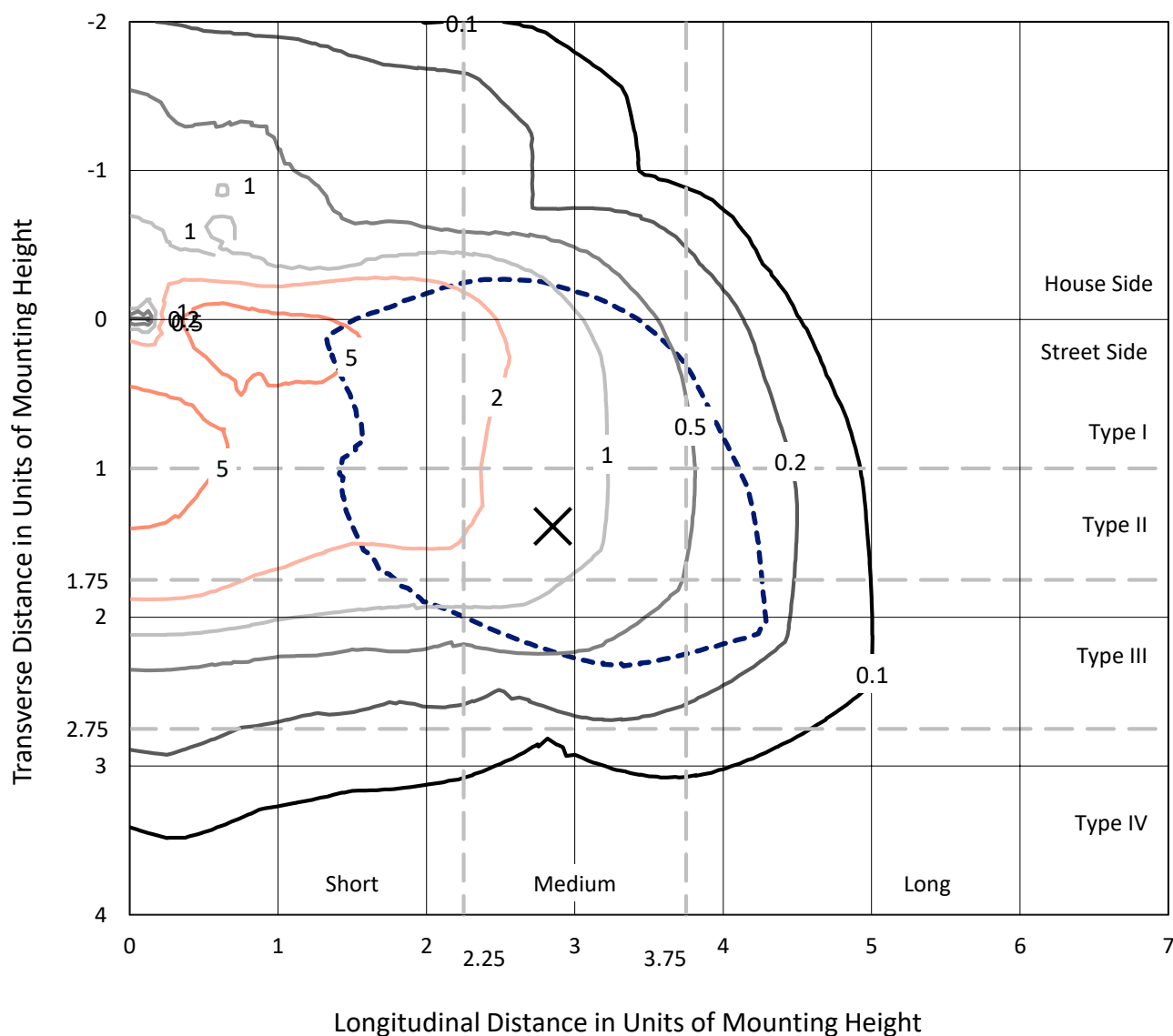


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

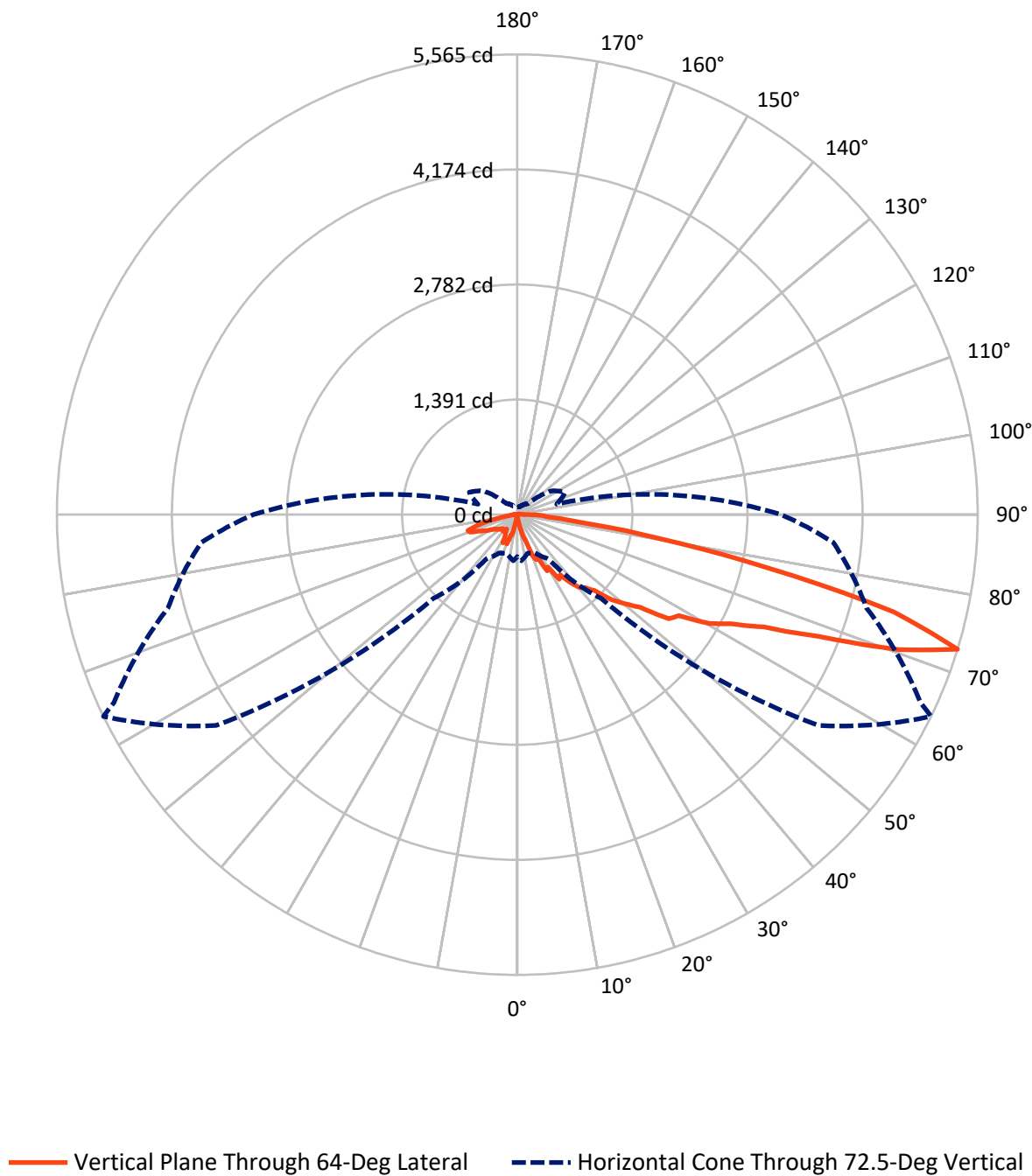


Based on 10 foot mounting height. Maximum calculated value = 8.1 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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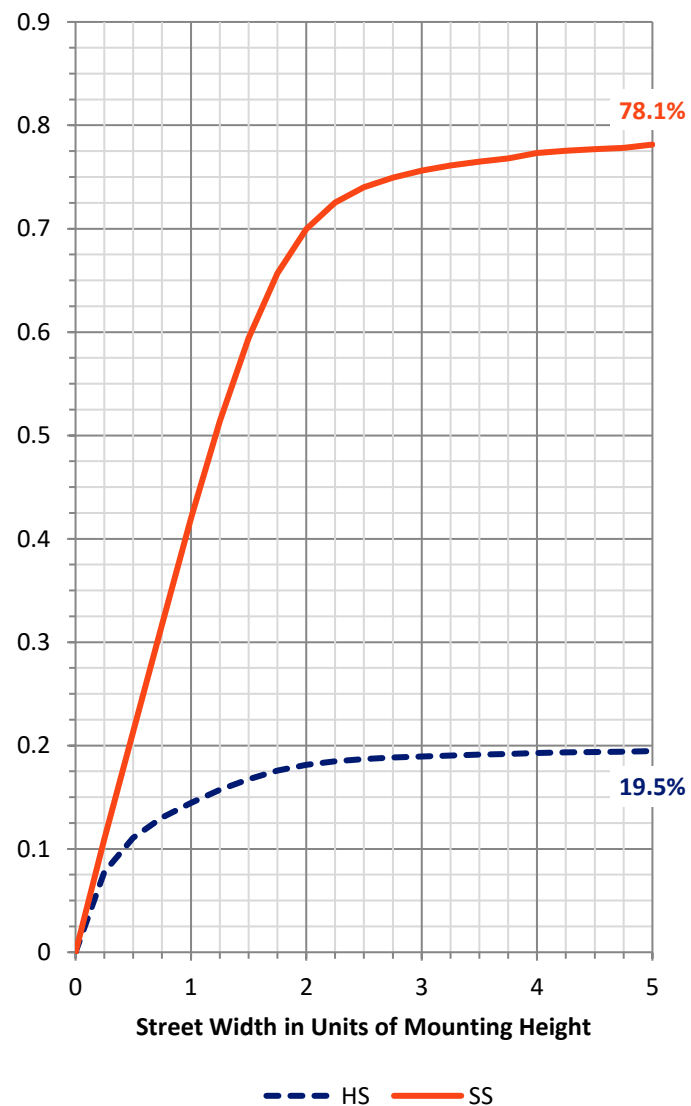
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1145.5	35.7	1181.2
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	4568.7	36.9	4605.6
	% Fixture	79.0	0.6	79.6
Total	Lumens	5714.2	72.6	5786.9
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.1	0.1
10°-20°	77.3	1.3
20°-30°	227.4	3.9
30°-40°	450.9	7.8
40°-50°	778.1	13.4
50°-60°	1257.9	21.7
60°-70°	1594.2	27.5
70°-80°	1142.2	19.7
80°-90°	179.1	3.1
90°-100°	36.1	0.6
100°-110°	16.1	0.3
110°-120°	8.2	0.1
120°-130°	6.1	0.1
130°-140°	3.8	0.1
140°-150°	1.9	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5714.2	98.7
0°-180°	5786.9	100.0

Coefficient of Utilization



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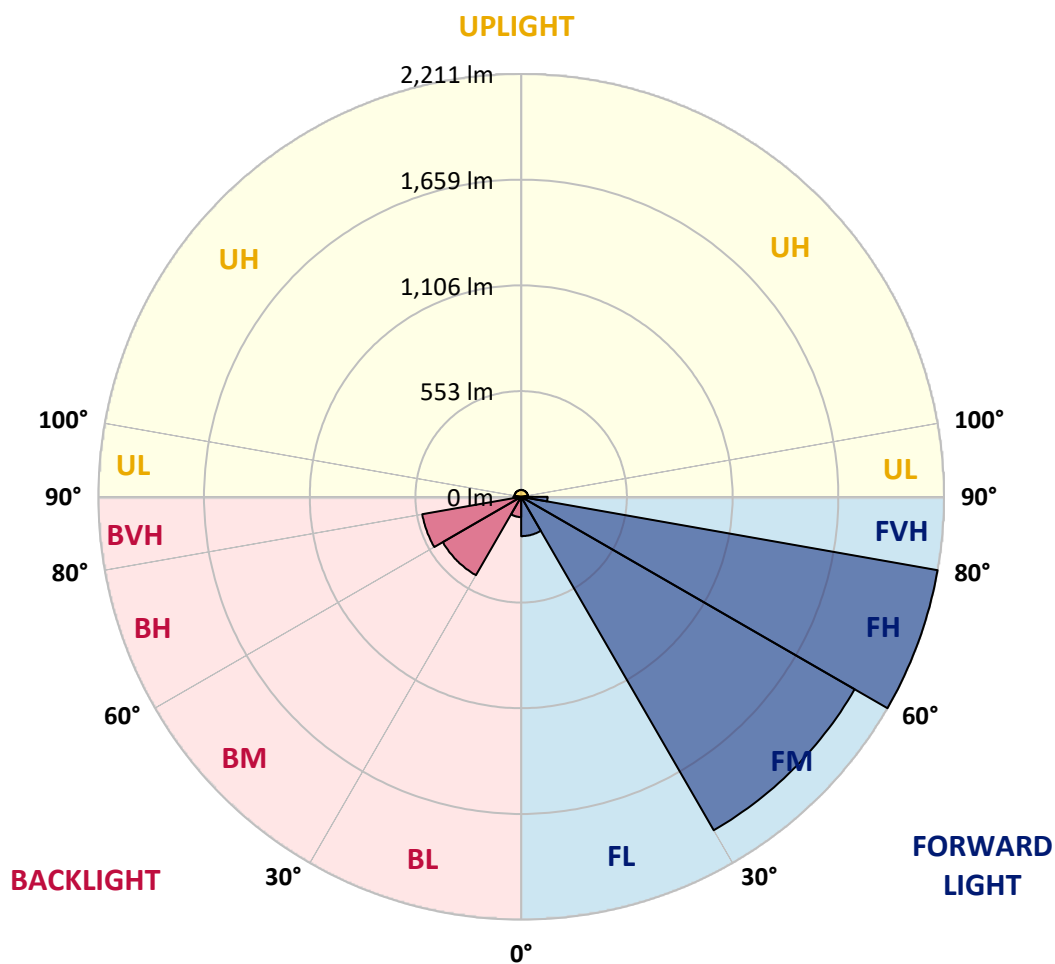
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	205.8	3.6			
FM	(30°-60°)	2013.7	34.8			
FH	(60°-80°)	2211.4	38.2			G2/5000
FVH	(80°-90°)	137.8	2.4			G2/225
BL	(0°-30°)	106.0	1.8	B0/110		
BM	(30°-60°)	473.2	8.2	B1/1000		
BH	(60°-80°)	525.0	9.1	B2/1000		G2/1000
BVH	(80°-90°)	41.3	0.7			G1/100
UL	(90°-100°)	36.1	0.6		U2/50	
UH	(100°-180°)	35.7	0.6		U2/50	

BUG Rating: B2-U2-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
2.5°	40.3	35.9	37.4	33.0	27.8	22.6	19.0	16.9	16.9	16.1	14.6
5°	140.0	142.9	160.4	134.8	122.3	159.7	44.6	25.6	24.2	16.9	14.0
7.5°	186.8	195.7	140.0	116.5	109.1	175.9	131.2	71.9	59.4	22.0	15.5
10°	353.9	329.7	222.7	243.3	226.5	144.4	95.9	98.2	90.1	35.9	25.0
12.5°	316.6	320.2	327.5	297.5	306.2	227.1	116.5	191.2	204.5	230.1	216.1
15°	369.3	353.9	297.5	323.8	308.5	359.1	301.9	281.3	309.1	318.0	264.6
17.5°	501.2	490.1	569.3	388.3	282.1	403.7	359.1	329.0	312.9	348.7	421.3
20°	460.9	461.5	494.5	438.9	455.7	371.4	361.2	531.2	637.4	604.5	587.6
22.5°	693.9	672.7	559.0	435.9	481.4	425.6	507.7	592.7	562.7	548.8	592.7
25°	674.1	682.2	648.4	655.0	482.1	569.3	529.0	565.7	601.5	863.1	973.0
27.5°	828.6	783.2	744.4	678.5	663.8	535.6	511.5	768.6	789.2	865.2	912.1
30°	1090.3	1067.5	996.5	774.5	693.1	576.0	699.7	735.6	748.7	1018.5	1260.2
32.5°	1384.1	1300.6	1095.5	1013.3	753.9	710.6	658.6	930.6	915.2	1129.1	1273.4
35°	1600.2	1550.4	1357.0	1102.0	906.3	759.7	886.5	894.6	973.0	1181.8	1285.1
37.5°	1554.7	1568.7	1488.9	1315.2	997.2	821.4	959.1	1041.9	1049.2	1280.1	1362.1
40°	1672.7	1681.5	1653.7	1459.6	1150.3	945.1	1077.7	1155.5	1094.0	1400.9	1455.9
42.5°	1741.6	1755.6	1809.0	1669.1	1297.6	1080.8	1263.9	1208.9	1154.7	1505.0	1655.8
45°	1891.8	1884.6	1907.9	1741.6	1516.0	1359.9	1326.9	1310.1	1330.6	1691.8	1848.6
47.5°	2101.3	2130.7	2014.9	1776.8	1680.1	1428.8	1503.6	1535.7	1613.4	1933.6	2044.3
50°	2411.3	2374.0	2235.4	1932.9	1842.1	1519.7	1842.1	1694.1	1653.7	2154.1	2336.6
52.5°	2537.4	2513.2	2316.8	1998.8	1943.2	1691.8	1899.1	1861.7	1847.9	2458.9	2661.9
55°	2587.2	2569.6	2488.2	2010.5	2034.8	1949.1	2178.3	2221.6	2198.2	2652.3	2990.2
57.5°	2455.2	2484.6	2490.5	2058.1	2097.0	1979.1	2617.2	2304.3	2472.1	2894.9	3245.0
60°	2276.5	2277.9	2355.6	2052.3	2154.9	2170.9	2712.4	2669.9	2826.7	3023.2	3315.5
62.5°	1834.7	1886.7	2014.9	2011.2	2235.4	2420.2	3180.7	2906.6	2968.2	3153.5	3536.0
65°	1217.1	1244.8	1400.2	1667.7	2091.9	2618.6	3565.4	3274.4	3361.5	3401.9	3857.0
67.5°	726.1	760.5	782.6	1065.3	1746.8	2658.3	4363.2	3927.3	3848.1	3777.8	4178.6
70°	606.6	629.4	565.7	637.4	1067.5	2413.4	4747.9	4882.6	4625.6	4286.4	4246.6
72.5°	508.5	558.3	482.1	510.0	650.0	1432.4	4444.5	5564.8	5378.1	4371.3	3831.4
75°	377.4	446.9	401.5	458.0	600.1	735.6	3353.6	4702.4	4643.9	3788.8	2843.7
77.5°	294.6	307.0	251.3	345.8	576.6	608.2	2012.1	3100.1	3049.4	2415.7	1318.8
80°	206.6	211.7	198.5	180.2	445.5	570.1	1019.1	1718.8	1611.9	750.3	438.2
82.5°	130.4	139.1	155.3	122.3	216.1	531.9	562.0	756.9	674.1	254.9	217.6
85°	78.4	85.7	95.9	85.7	101.1	406.7	435.1	389.1	355.4	155.3	137.7
87.5°	45.5	47.6	57.9	59.4	75.5	236.7	347.4	289.4	254.2	103.3	89.4
90°	31.5	29.4	29.4	30.8	38.8	103.3	170.0	101.1	101.9	54.2	46.9
92.5°	24.2	24.2	26.4	26.4	37.4	90.9	78.4	54.2	51.4	45.5	37.4
95°	18.3	19.9	19.9	21.2	25.6	27.8	38.8	40.3	40.3	41.1	33.0
97.5°	15.5	16.9	16.9	17.5	20.5	21.2	27.0	35.2	35.2	34.5	27.0
100°	14.6	15.5	14.6	14.6	16.9	16.1	22.0	30.1	31.5	30.1	23.4
102.5°	14.0	14.6	13.1	11.7	14.6	11.7	18.3	27.0	27.8	22.0	18.3
105°	14.0	14.0	11.7	9.5	11.7	9.5	15.5	19.0	19.0	15.5	17.5
107.5°	14.0	13.1	10.3	8.1	8.9	8.1	12.4	12.4	12.4	11.7	16.9
110°	12.4	11.7	9.5	7.4	6.6	6.6	8.9	8.9	8.9	10.3	16.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	11.0	10.3	8.1	5.8	5.1	5.1	5.8	6.6	6.6	9.5	16.1
115°	9.5	9.5	7.4	5.8	4.4	4.4	5.1	5.8	5.8	8.9	15.5
117.5°	9.5	9.5	6.6	5.1	3.7	3.7	4.4	5.1	5.1	8.9	16.1
120°	9.5	9.5	6.6	4.4	3.7	3.0	3.7	4.4	4.4	9.5	16.9
122.5°	8.9	8.9	6.6	4.4	3.0	3.0	3.0	4.4	4.4	8.9	15.5
125°	8.9	8.9	5.8	4.4	3.0	3.0	3.0	3.7	4.4	9.5	15.5
127.5°	8.1	8.1	6.6	4.4	3.0	2.2	3.0	3.7	3.7	8.9	14.6
130°	8.1	8.1	5.8	3.7	2.2	2.2	2.2	3.0	3.7	8.1	13.1
132.5°	7.4	7.4	5.1	3.7	2.2	1.4	2.2	3.0	3.0	7.4	11.7
135°	7.4	7.4	5.8	3.7	2.2	1.4	2.2	3.0	3.0	6.6	10.3
137.5°	6.6	6.6	5.1	3.7	2.2	1.4	1.4	2.2	3.0	6.6	9.5
140°	6.6	6.6	5.8	4.4	2.2	1.4	1.4	2.2	2.2	5.1	7.4
142.5°	7.4	7.4	5.8	3.7	2.2	1.4	1.4	1.4	2.2	3.7	5.8
145°	6.6	6.6	5.1	3.7	2.2	0.7	0.7	1.4	2.2	3.7	5.1
147.5°	6.6	6.6	5.8	3.7	1.4	0.7	0.7	1.4	1.4	3.0	4.4
150°	5.8	5.8	4.4	2.2	0.7	0.0	0.7	1.4	1.4	2.2	3.7
152.5°	4.4	4.4	3.0	1.4	0.0	0.0	0.0	0.7	0.7	1.4	2.2
155°	2.2	2.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4
157.5°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	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°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
2.5°	14.6	14.6	14.6	14.6	14.0	14.0	13.1	13.1	13.1	13.1	13.1
5°	14.0	14.0	14.0	13.1	12.4	11.7	12.4	11.7	11.7	11.7	11.7
7.5°	14.6	14.6	13.1	12.4	12.4	12.4	16.1	97.5	215.5	184.6	192.0
10°	27.0	25.6	22.0	18.3	16.9	96.7	184.6	169.2	128.9	107.6	110.6
12.5°	269.0	241.9	156.0	108.4	124.5	128.2	115.8	126.8	206.6	189.1	189.7
15°	269.0	275.5	225.7	254.2	219.8	102.5	197.8	236.0	229.3	211.0	221.3
17.5°	454.3	451.4	281.3	258.6	212.4	214.7	186.0	162.0	150.1	148.0	150.1
20°	673.4	561.3	536.4	390.6	238.9	219.0	153.9	130.4	166.4	205.2	210.4
22.5°	592.7	592.7	481.4	348.7	295.3	187.6	167.9	166.4	199.3	197.1	206.6
25°	1000.8	869.6	623.6	336.3	258.0	190.5	170.0	154.6	173.6	200.1	197.8
27.5°	923.2	856.5	616.1	404.4	202.2	207.4	156.8	152.4	195.7	210.4	211.7
30°	1165.0	1073.5	622.7	304.0	203.6	159.7	145.0	155.3	163.4	177.3	178.9
32.5°	1206.8	1092.5	597.9	274.1	214.7	153.9	147.3	146.6	166.4	191.2	193.4
35°	1181.1	1048.5	563.4	230.9	215.5	155.3	150.9	167.1	152.4	178.0	181.6
37.5°	1357.0	1070.5	508.5	215.5	197.8	159.7	197.8	159.7	159.0	167.1	168.5
40°	1354.7	1119.6	446.2	263.1	197.8	263.1	206.6	166.4	142.9	156.8	157.6
42.5°	1464.0	1147.5	391.2	271.1	213.2	304.9	192.6	162.0	170.0	178.9	187.6
45°	1590.0	1235.3	366.4	244.0	240.3	236.0	200.7	211.0	153.9	246.9	257.2
47.5°	1762.1	1348.1	332.6	238.9	326.1	237.4	382.5	196.4	169.2	292.4	298.1
50°	2019.3	1546.7	335.5	262.3	299.0	254.2	257.2	213.2	228.6	304.0	305.6
52.5°	2293.4	1713.1	315.8	289.4	293.8	312.2	274.1	318.7	224.9	292.4	292.4
55°	2535.8	1958.6	325.4	304.9	307.0	271.8	386.1	235.1	224.1	293.8	301.1
57.5°	2852.4	2220.8	390.6	318.7	315.0	290.2	298.1	291.6	263.7	299.0	303.4
60°	3020.2	2412.0	489.4	358.2	329.7	334.9	353.2	280.6	239.6	349.5	363.5
62.5°	3286.2	2687.5	619.9	405.9	418.4	343.0	301.1	305.6	254.9	278.5	281.3
65°	3593.1	2974.0	684.4	452.8	450.6	381.1	341.4	237.4	165.6	153.2	152.4
67.5°	3823.9	3084.7	626.5	506.3	562.0	365.6	234.5	168.5	127.5	120.2	122.3
70°	3675.2	2831.8	536.4	607.4	568.5	283.5	202.2	134.0	109.1	102.5	106.2
72.5°	3188.8	2288.3	492.5	641.1	499.0	191.2	150.9	117.9	98.2	91.5	93.1
75°	2253.8	1470.5	505.6	542.9	354.7	138.5	130.4	98.2	87.1	78.4	78.4
77.5°	989.9	630.2	396.4	391.2	227.1	110.0	110.6	81.3	75.5	67.5	67.5
80°	398.6	333.5	233.0	226.5	151.6	86.4	87.9	67.5	68.1	57.1	53.4
82.5°	211.0	190.5	129.6	121.6	108.4	66.7	62.3	57.9	57.1	46.9	41.1
85°	138.5	125.4	85.0	79.1	80.6	49.0	52.0	54.9	50.6	38.8	27.0
87.5°	85.7	85.0	60.0	57.1	60.0	35.2	42.5	44.6	42.5	29.4	17.5
90°	40.3	43.9	40.3	39.5	39.5	16.9	33.0	35.2	34.5	23.4	14.0
92.5°	31.5	35.9	37.4	38.1	38.1	17.5	34.5	36.7	35.2	24.2	15.5
95°	27.0	31.5	36.7	36.7	35.9	14.0	32.2	35.9	33.6	22.6	14.6
97.5°	22.6	26.4	31.5	31.5	34.5	11.7	30.1	34.5	33.6	24.2	15.5
100°	21.2	25.0	27.8	28.6	31.5	11.0	27.0	30.8	30.1	19.9	16.1
102.5°	19.9	21.2	22.0	22.6	23.4	10.3	21.2	23.4	22.6	14.6	14.6
105°	18.3	18.3	16.1	15.5	15.5	9.5	13.1	16.1	13.1	11.7	13.1
107.5°	18.3	17.5	13.1	11.7	11.7	8.9	10.3	10.3	8.9	11.7	12.4
110°	18.3	16.9	11.7	10.3	9.5	8.1	8.1	7.4	7.4	11.7	12.4



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CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	17.5	16.1	10.3	8.9	8.9	7.4	6.6	5.8	6.6	11.7	13.1
115°	16.9	15.5	9.5	8.9	8.1	6.6	5.8	4.4	6.6	12.4	14.0
117.5°	16.9	15.5	9.5	8.1	7.4	5.8	5.1	4.4	6.6	12.4	14.0
120°	17.5	15.5	9.5	7.4	6.6	5.1	4.4	4.4	6.6	12.4	14.0
122.5°	16.9	14.6	8.9	6.6	5.8	5.1	4.4	4.4	6.6	12.4	13.1
125°	16.1	14.6	8.9	5.8	5.1	4.4	3.7	3.7	7.4	12.4	13.1
127.5°	15.5	14.0	8.1	5.1	4.4	4.4	3.7	3.7	7.4	11.7	12.4
130°	14.0	12.4	8.1	5.1	3.7	3.7	3.0	3.0	7.4	11.7	12.4
132.5°	12.4	11.7	7.4	4.4	3.0	3.0	3.0	3.0	6.6	10.3	11.0
135°	11.0	9.5	6.6	3.7	3.0	2.2	2.2	2.2	5.8	8.9	9.5
137.5°	9.5	8.9	5.8	3.7	2.2	2.2	1.4	1.4	5.1	8.1	8.9
140°	8.1	7.4	5.1	3.0	2.2	2.2	1.4	1.4	3.7	5.8	6.6
142.5°	5.8	5.8	4.4	3.0	2.2	1.4	1.4	1.4	3.7	5.1	5.8
145°	5.1	5.1	4.4	3.0	2.2	1.4	0.7	0.7	2.2	3.7	3.7
147.5°	4.4	4.4	3.7	3.0	1.4	0.7	0.7	0.7	1.4	2.2	2.2
150°	3.7	3.7	3.0	2.2	1.4	0.7	0.0	0.0	0.7	1.4	1.4
152.5°	2.2	2.2	2.2	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.4	1.4	1.4	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	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

(END OF REPORT)