

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: P240148

Luminaire Tested: **UTLD-AF24-50-D-U-T3-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-25)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-50-D-U-T3-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4612.9 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 54
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

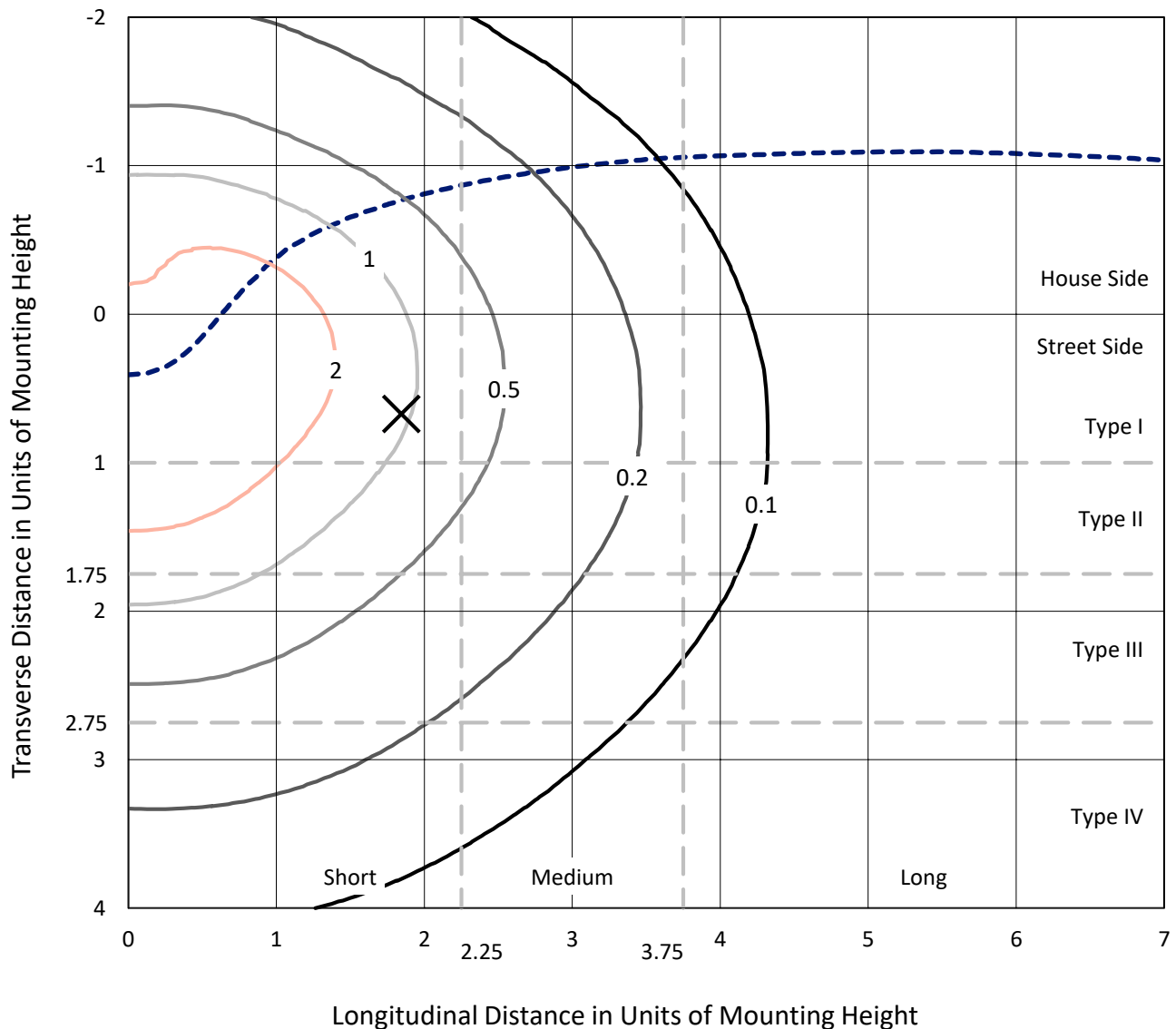


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

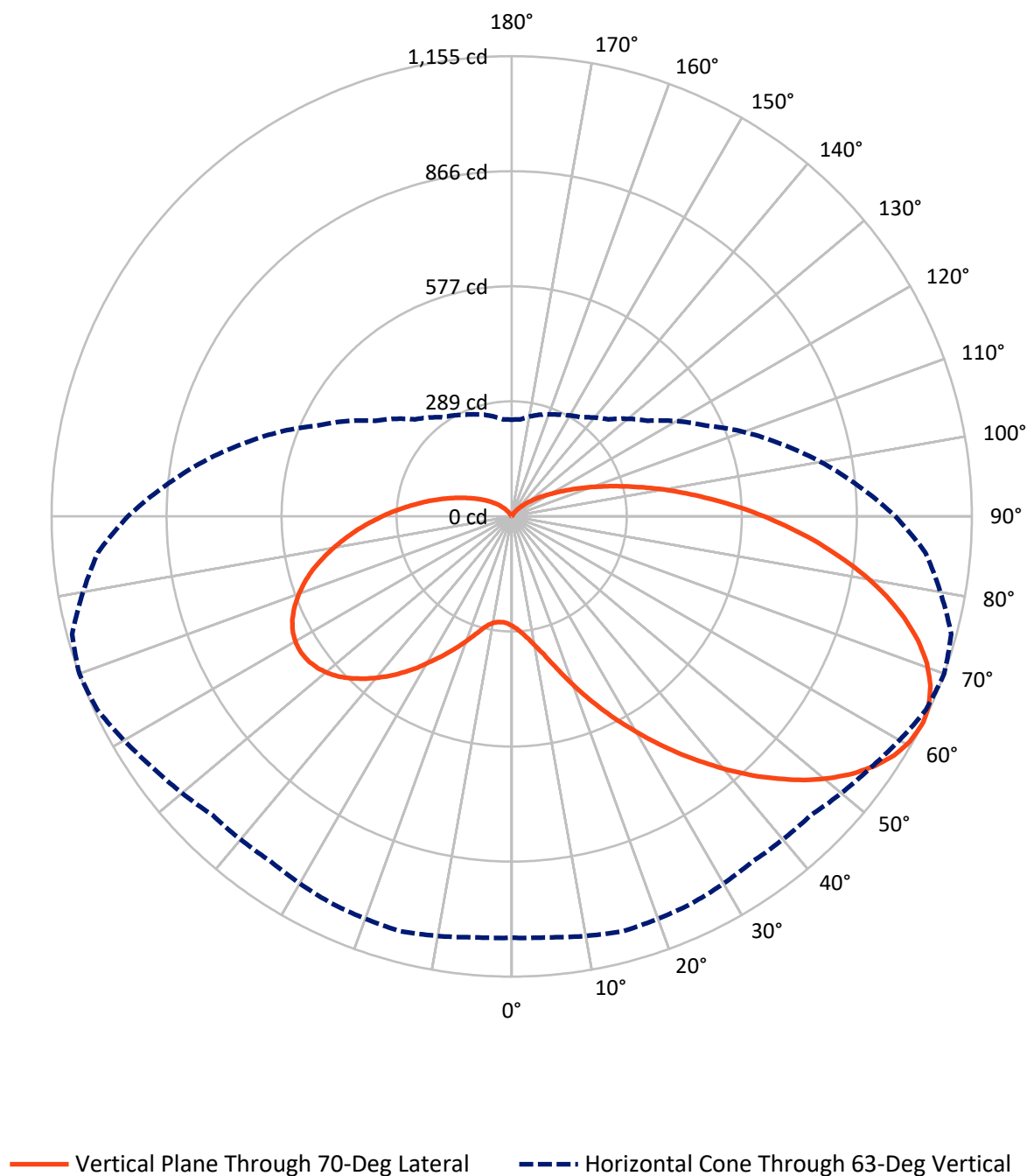


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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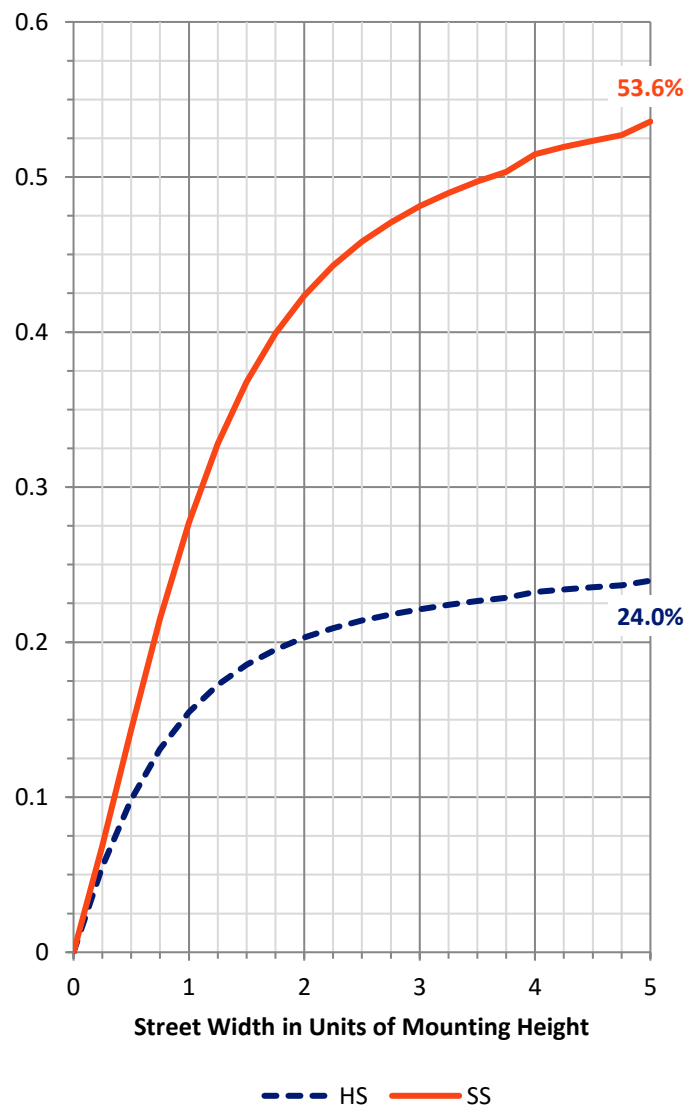
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1179.1	266.9	1446.0
	% Fixture	25.6	5.8	31.3
Street Side	Lumens	2665.5	501.5	3166.9
	% Fixture	57.8	10.9	68.7
Total	Lumens	3844.6	768.4	4612.9
	% Fixture	83.3	16.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.4	0.6
10°-20°	96.2	2.1
20°-30°	206.7	4.5
30°-40°	360.3	7.8
40°-50°	535.3	11.6
50°-60°	683.6	14.8
60°-70°	741.1	16.1
70°-80°	674.8	14.6
80°-90°	519.2	11.3
90°-100°	348.2	7.5
100°-110°	211.0	4.6
110°-120°	117.8	2.6
120°-130°	59.8	1.3
130°-140°	24.8	0.5
140°-150°	6.3	0.1
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3844.6	83.3
0°-180°	4612.9	100.0

Coefficient of Utilization



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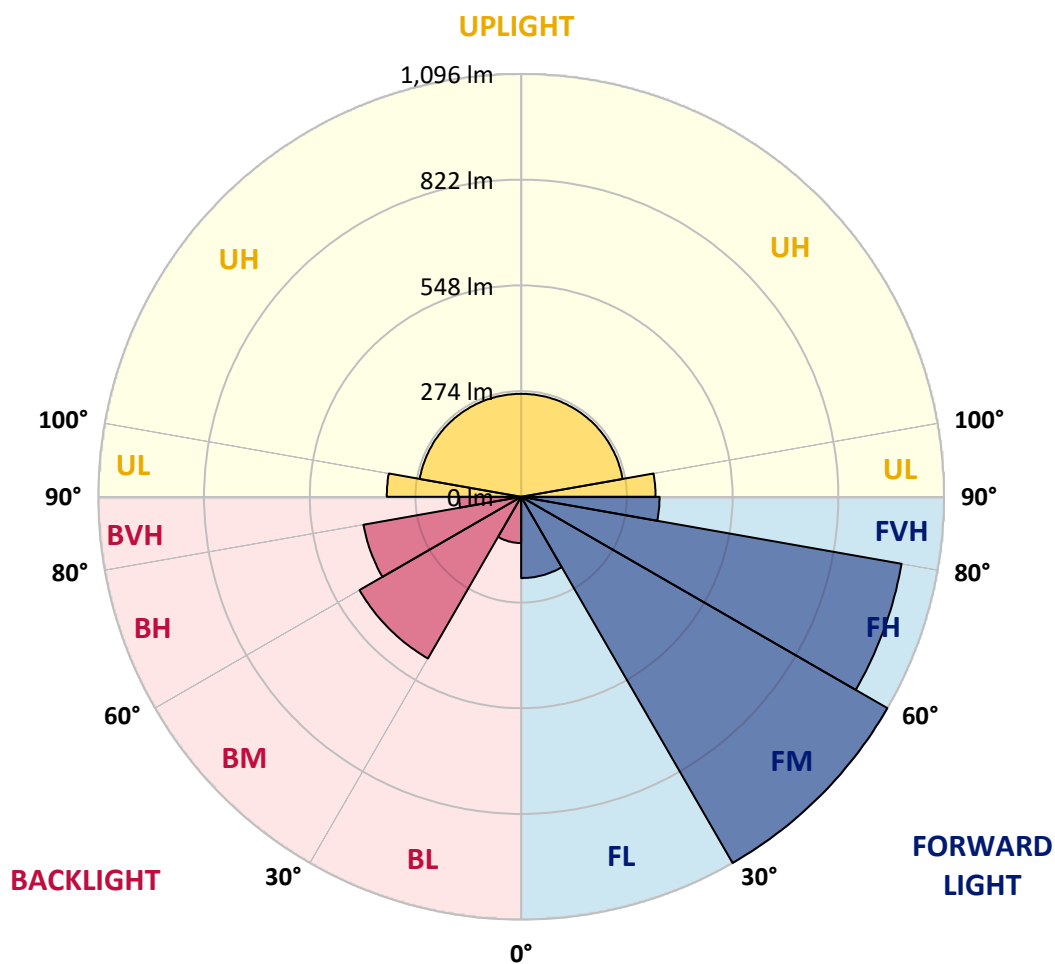
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	210.5	4.6			
FM	(30°-60°)	1095.6	23.8			
FH	(60°-80°)	1000.9	21.7			G1/1800
FVH	(80°-90°)	358.4	7.8			G3/500
BL	(0°-30°)	119.8	2.6	B1/500		
BM	(30°-60°)	483.5	10.5	B1/1000		
BH	(60°-80°)	415.1	9.0	B1/500		G1/500
BVH	(80°-90°)	160.7	3.5			G2/225
UL	(90°-100°)	348.2	7.5		U3/500	
UH	(100°-180°)	266.9	5.8		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	275.3	275.3	275.3	275.3	275.3	275.3	275.3	275.3	275.3	275.3	275.3
2.5°	297.7	297.7	297.0	296.5	294.7	292.3	288.7	286.2	283.7	281.9	278.3
5°	323.2	324.4	322.0	320.7	316.6	311.6	306.2	299.5	296.5	292.3	284.9
7.5°	350.5	351.7	349.2	346.3	340.8	333.5	324.9	316.6	311.1	305.6	294.7
10°	380.8	381.5	378.4	374.8	368.1	358.9	349.8	337.1	331.0	323.7	309.2
12.5°	414.7	413.5	411.2	405.1	397.1	387.5	375.3	362.6	354.1	345.6	327.4
15°	453.5	452.9	448.7	441.4	431.7	420.7	406.2	392.2	383.8	374.8	352.9
17.5°	494.2	493.0	488.7	480.2	470.0	455.9	445.0	428.7	418.4	408.6	383.8
20°	534.9	534.2	531.1	521.5	509.9	499.0	484.4	467.5	457.1	443.8	415.3
22.5°	581.5	579.6	574.8	566.3	556.5	545.6	530.6	509.3	497.7	485.1	451.1
25°	628.1	627.5	621.4	612.4	604.5	592.4	577.9	553.0	541.5	523.9	487.6
27.5°	676.7	675.4	669.4	659.7	653.6	642.1	623.9	599.7	585.7	568.7	528.2
30°	727.0	726.3	719.2	709.4	702.7	691.8	673.0	647.0	633.0	614.2	568.7
32.5°	777.3	777.3	770.1	761.5	753.7	739.6	722.1	697.3	682.1	662.1	611.2
35°	830.1	827.0	821.5	813.7	801.0	787.0	771.3	748.9	733.0	711.2	657.3
37.5°	879.7	879.7	870.7	864.0	850.0	834.3	819.8	801.0	783.4	762.2	702.1
40°	928.9	929.5	921.0	912.6	894.3	879.7	867.1	851.9	836.2	814.3	751.2
42.5°	976.2	974.9	967.1	957.4	937.3	921.0	913.1	900.4	888.9	865.9	798.5
45°	1019.8	1016.7	1010.7	999.1	976.2	959.9	956.8	950.8	938.6	918.0	846.4
47.5°	1053.8	1051.9	1049.6	1034.3	1010.7	995.1	995.1	997.4	988.4	967.1	891.3
50°	1081.6	1081.1	1079.9	1062.9	1037.4	1025.3	1030.1	1038.6	1032.6	1013.8	931.3
52.5°	1100.5	1099.9	1101.7	1084.1	1059.3	1048.4	1059.9	1076.9	1072.0	1055.0	969.5
55°	1107.8	1107.8	1113.3	1096.9	1072.0	1063.5	1082.3	1105.9	1105.3	1090.2	998.6
57.5°	1104.7	1105.3	1115.0	1099.9	1076.9	1072.0	1096.9	1128.9	1131.4	1116.3	1022.8
60°	1090.7	1091.4	1104.7	1093.2	1073.2	1072.0	1103.5	1143.0	1147.8	1134.4	1036.9
62.5°	1064.0	1066.5	1082.9	1075.6	1059.3	1063.5	1101.2	1147.2	1153.9	1141.1	1042.3
63°	1056.9	1059.9	1077.4	1070.7	1055.7	1060.5	1099.2	1147.2	1154.5	1141.8	1042.3
65°	1027.1	1030.8	1050.7	1047.7	1036.9	1045.9	1089.0	1140.4	1149.6	1138.1	1036.9
67.5°	979.2	986.5	1009.5	1012.0	1006.5	1020.5	1067.8	1123.5	1133.2	1122.3	1020.5
70°	921.6	930.2	959.9	967.1	965.9	986.5	1036.9	1095.0	1105.3	1094.4	992.5
72.5°	859.8	871.4	898.5	914.4	922.2	944.6	998.6	1056.2	1066.5	1055.0	955.6
75°	792.4	804.5	838.6	857.9	870.0	898.0	951.3	1008.9	1018.0	1008.9	908.9
77.5°	725.2	737.3	771.8	796.7	815.5	848.8	901.6	954.4	961.1	951.3	854.3
80°	656.0	670.0	703.3	732.5	757.9	791.2	842.2	890.1	898.0	885.2	795.5
82.5°	587.5	599.7	637.2	671.2	698.5	731.8	780.3	825.2	828.8	816.1	730.6
85°	525.6	536.0	572.9	609.3	641.5	674.2	719.2	754.9	760.3	743.9	666.4
87.5°	467.5	475.4	514.2	549.9	582.7	619.1	659.1	687.6	687.6	674.9	599.1
90°	413.5	419.0	454.2	493.6	528.7	560.8	598.4	622.7	619.7	603.8	536.0
92.5°	361.3	368.1	402.6	440.2	476.0	509.3	539.6	556.0	551.8	535.4	475.4
95°	318.3	321.3	355.3	394.1	426.8	457.1	483.8	495.4	488.7	472.3	415.3
97.5°	278.9	281.4	311.1	348.0	383.2	411.2	429.3	436.6	429.9	413.5	366.2
100°	246.8	247.4	274.0	309.9	342.5	366.8	383.2	383.2	377.2	360.8	317.7
102.5°	215.2	216.5	238.3	274.0	305.0	326.2	338.9	337.7	326.8	310.4	275.9
105°	189.8	190.9	207.9	242.5	270.4	289.9	300.1	292.9	282.6	268.0	238.8
107.5°	167.3	167.9	181.3	212.2	238.8	257.1	262.6	254.7	243.1	229.2	208.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	149.8	149.1	159.5	186.2	211.6	226.7	229.8	220.0	208.5	197.1	180.1
112.5°	132.8	132.8	139.5	161.9	185.5	200.1	201.2	187.4	177.6	167.3	156.5
115°	118.9	118.2	123.1	140.6	162.5	174.6	173.4	160.7	151.6	143.1	135.8
117.5°	106.7	105.6	109.2	121.3	141.3	152.8	149.8	135.3	128.5	122.5	118.2
120°	95.8	95.2	97.0	105.6	121.3	130.3	127.3	114.6	108.5	105.6	103.0
122.5°	86.1	86.1	85.4	90.9	103.0	110.4	106.1	95.8	92.3	90.3	90.3
125°	77.6	77.6	76.4	78.2	86.1	92.3	88.5	80.1	77.6	77.6	78.2
127.5°	69.2	69.2	68.0	67.3	70.9	75.2	70.9	66.1	65.4	66.1	67.3
130°	61.1	60.6	59.4	57.1	57.6	59.4	56.4	54.0	54.5	56.4	57.6
132.5°	54.0	53.3	51.6	47.8	45.5	45.5	43.0	43.0	44.9	46.7	49.1
135°	46.7	46.1	44.2	40.0	35.7	33.4	31.5	34.0	36.4	38.2	40.7
137.5°	39.5	38.8	36.4	32.1	26.7	23.1	22.4	26.1	28.5	30.9	32.8
140°	32.1	31.5	29.1	24.9	18.8	14.5	14.5	19.4	21.9	23.6	26.1
142.5°	25.4	24.9	23.1	18.1	12.1	9.1	9.8	13.9	15.8	17.6	19.4
145°	18.8	18.8	16.9	12.8	7.3	4.3	5.5	9.1	10.9	12.1	13.9
147.5°	12.8	12.8	10.9	7.8	4.3	1.8	2.4	5.5	6.7	7.8	9.1
150°	7.8	7.8	6.7	4.3	1.8	0.0	1.2	2.4	3.6	4.3	5.5
152.5°	4.3	4.3	3.1	1.8	0.6	0.0	0.0	1.2	1.2	1.8	2.4
155°	1.8	1.2	1.2	0.6	0.0	0.0	0.0	0.0	0.6	0.6	0.6
157.5°	0.6	0.0	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°	275.3	275.3	275.3	275.3	275.3	275.3	275.3	275.3	275.3	275.3	275.3
2.5°	276.5	274.7	270.4	267.3	263.8	260.7	259.0	255.8	254.0	254.7	254.0
5°	281.4	277.7	269.8	263.1	255.8	249.7	245.0	240.7	238.3	236.4	237.1
7.5°	289.2	283.7	272.3	261.3	250.4	241.4	234.1	228.6	223.8	222.6	221.9
10°	301.3	294.0	277.7	263.1	249.2	236.4	226.7	218.8	214.0	211.6	211.6
12.5°	318.3	308.0	287.4	268.0	250.4	234.7	222.6	212.8	207.4	205.0	204.4
15°	342.0	329.2	303.7	277.7	255.2	236.4	221.9	212.2	207.9	206.7	206.2
17.5°	369.3	355.3	323.7	293.5	265.0	241.4	227.4	219.5	214.5	212.2	211.6
20°	400.2	382.0	346.3	311.1	278.9	254.0	238.3	227.4	221.4	218.3	217.7
22.5°	431.7	411.7	370.5	329.9	294.7	271.6	249.2	235.9	227.4	223.8	222.6
25°	465.7	443.3	395.3	349.8	314.1	288.0	262.6	243.1	233.5	229.2	229.2
27.5°	502.0	476.0	421.4	370.5	334.2	303.2	275.3	251.0	239.5	234.7	234.1
30°	540.3	511.2	448.1	392.9	352.9	317.1	286.2	259.5	245.7	240.2	239.5
32.5°	581.5	548.2	477.8	417.2	370.5	329.9	295.9	267.3	251.0	244.3	243.7
35°	622.1	584.5	505.7	440.8	386.2	340.8	303.7	275.3	255.2	248.6	248.0
37.5°	666.9	623.4	535.4	463.8	400.8	349.2	310.4	281.4	259.5	252.3	251.0
40°	709.9	661.4	563.2	484.4	412.9	357.2	315.9	286.8	263.1	255.2	254.0
42.5°	752.5	700.4	591.2	503.9	423.3	361.9	319.6	290.4	266.8	257.8	255.8
45°	794.9	736.7	619.7	519.6	431.1	366.2	322.0	293.5	269.8	259.0	257.8
47.5°	834.3	772.5	645.7	533.6	436.6	368.1	323.2	294.7	272.3	259.5	257.8
50°	871.9	803.4	667.6	543.9	440.2	368.1	323.2	295.3	273.4	259.5	258.3
52.5°	904.6	830.1	685.2	550.5	440.8	366.2	321.3	294.7	273.4	258.3	256.4
55°	929.5	851.9	697.8	553.6	439.0	363.2	318.3	292.9	272.8	256.4	254.7
57.5°	949.5	867.1	705.9	553.0	434.8	358.4	314.6	290.4	271.1	253.5	251.7
60°	961.6	874.9	707.0	548.7	428.7	352.3	309.9	286.8	268.6	250.4	248.0
62.5°	963.4	874.3	702.7	540.3	419.5	345.0	303.7	281.9	264.4	245.7	243.1
63°	962.8	873.7	700.4	538.4	417.8	343.8	303.2	281.4	263.8	244.3	242.5
65°	956.1	866.4	691.2	528.7	409.2	336.5	297.7	276.5	260.1	240.7	237.6
67.5°	938.6	850.0	674.2	512.3	396.5	326.8	289.9	270.4	254.0	234.7	231.6
70°	911.9	827.0	651.1	494.2	383.2	316.6	281.4	262.6	247.4	228.1	224.3
72.5°	876.1	793.7	624.5	473.0	367.4	305.0	271.6	254.0	238.8	220.7	215.2
75°	833.1	754.9	594.8	449.9	350.5	292.9	261.9	245.7	230.4	212.2	206.7
77.5°	781.5	710.6	557.8	425.7	334.2	280.1	251.0	235.2	220.7	202.5	197.1
80°	726.3	661.4	520.8	398.4	315.9	266.8	240.2	224.3	209.8	192.9	186.2
82.5°	668.1	608.8	481.4	372.2	297.7	252.8	228.6	212.8	198.9	182.5	176.5
85°	609.3	556.0	443.3	346.3	278.9	239.5	216.5	201.9	186.8	171.0	164.9
87.5°	551.1	504.4	406.2	318.9	261.3	226.1	204.4	189.8	174.6	159.5	154.6
90°	495.4	454.7	367.4	293.5	243.1	211.6	192.2	177.6	163.2	147.9	143.1
92.5°	439.6	404.4	332.2	270.4	226.1	198.3	180.1	165.5	150.3	135.8	132.8
95°	389.8	359.6	299.0	245.7	209.8	185.5	167.9	154.0	138.2	124.3	122.5
97.5°	343.2	317.1	266.1	224.3	193.4	171.5	155.8	141.3	125.5	112.7	111.6
100°	301.3	280.1	238.3	202.5	177.0	158.9	144.3	129.8	113.9	103.0	101.8
102.5°	263.1	246.2	212.2	183.1	162.5	146.1	131.5	117.7	102.4	92.8	92.8
105°	230.4	215.2	187.9	164.9	147.4	132.8	119.4	105.6	90.3	82.5	82.5
107.5°	199.5	189.1	166.7	147.4	133.4	120.6	107.9	94.0	79.4	73.3	74.0



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CATALOG NUMBER: UTLD-AF24-50-D-U-T3-FP-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	174.0	165.5	146.7	132.2	120.6	109.2	97.0	83.0	69.2	64.9	65.4
112.5°	151.6	144.9	129.2	117.7	107.9	98.3	86.1	72.1	60.0	57.6	58.2
115°	132.2	126.7	114.6	104.4	96.3	87.3	76.4	62.5	52.1	51.0	51.0
117.5°	115.2	111.0	100.6	92.8	85.4	77.6	66.6	54.0	44.9	44.9	44.9
120°	101.3	97.6	89.1	81.8	75.8	68.0	57.6	45.5	38.8	39.5	39.5
122.5°	88.0	85.4	77.6	72.1	66.1	59.4	49.1	37.5	33.4	34.5	35.2
125°	77.0	74.7	68.5	62.5	57.1	50.4	40.7	31.5	29.1	30.3	30.3
127.5°	66.1	64.9	59.4	54.0	49.1	42.4	33.4	26.1	25.4	26.7	26.7
130°	57.1	55.8	51.6	45.5	40.7	34.5	26.7	21.2	21.2	22.4	22.4
132.5°	48.5	47.8	43.7	38.2	33.4	27.4	21.2	16.9	18.1	19.4	19.4
135°	40.0	40.0	36.4	30.9	26.1	20.6	15.8	13.9	15.2	16.4	16.4
137.5°	32.8	32.1	29.1	24.2	19.4	15.2	11.5	10.9	12.8	13.9	13.9
140°	26.1	25.4	23.1	18.8	13.9	10.3	7.8	8.5	10.3	10.9	11.5
142.5°	19.4	19.4	16.9	13.9	9.1	6.0	4.8	6.7	7.8	8.5	9.1
145°	13.9	13.9	12.1	9.1	5.5	3.1	3.1	4.8	6.0	6.7	6.7
147.5°	9.1	9.1	7.8	5.5	3.1	1.2	1.8	3.1	4.3	4.8	4.8
150°	5.5	4.8	4.3	2.4	1.2	0.0	0.6	1.2	2.4	3.1	2.4
152.5°	2.4	2.4	1.8	1.2	0.6	0.0	0.0	0.0	0.6	1.2	1.2
155°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	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

(END OF REPORT)