

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: P240958

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-46)
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-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5117.7 lumens
Efficiency: N/A
Efficacy: 94.8 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: B1 - U2 - G2

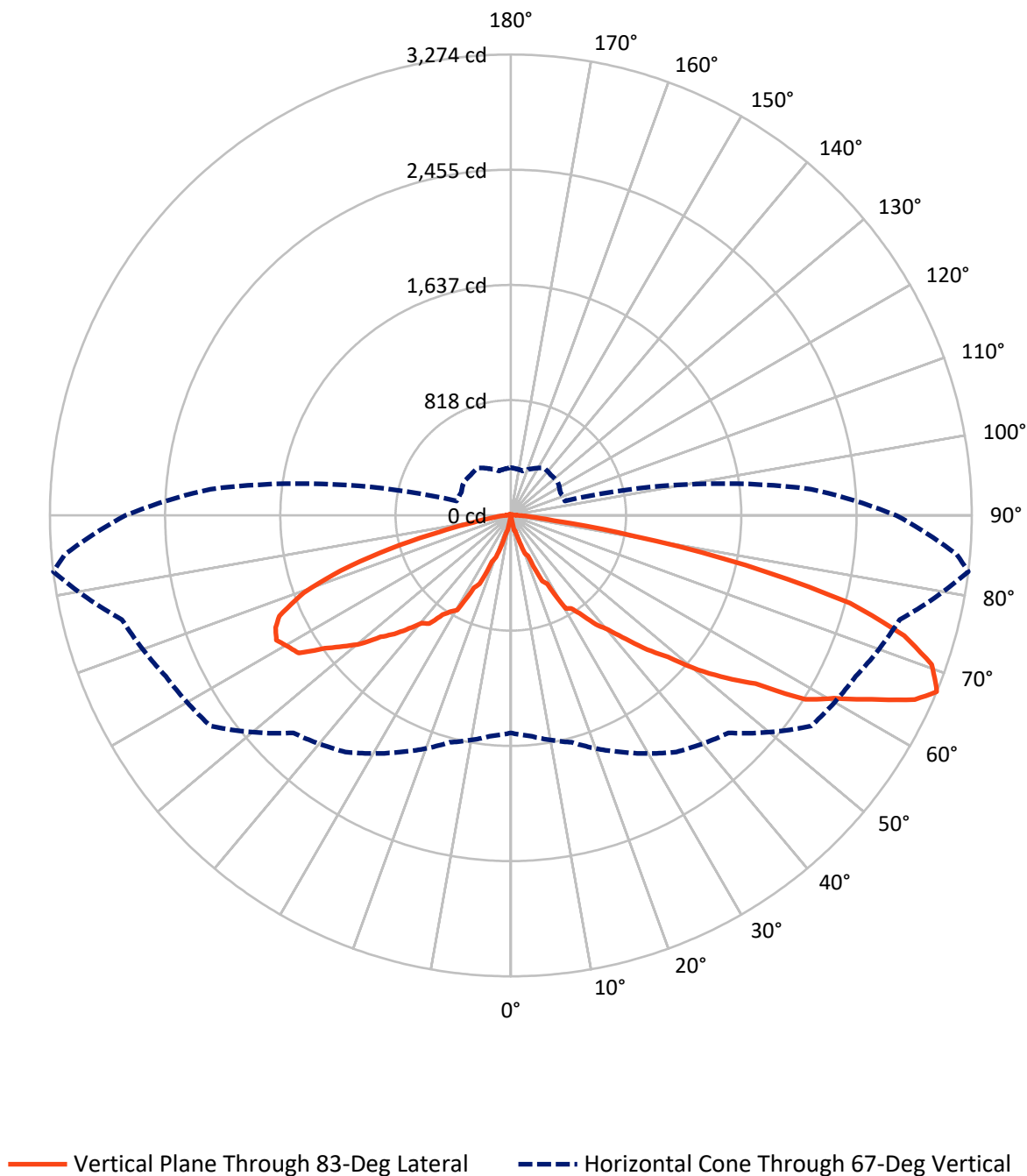
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Luminous Intensity Polar Plot



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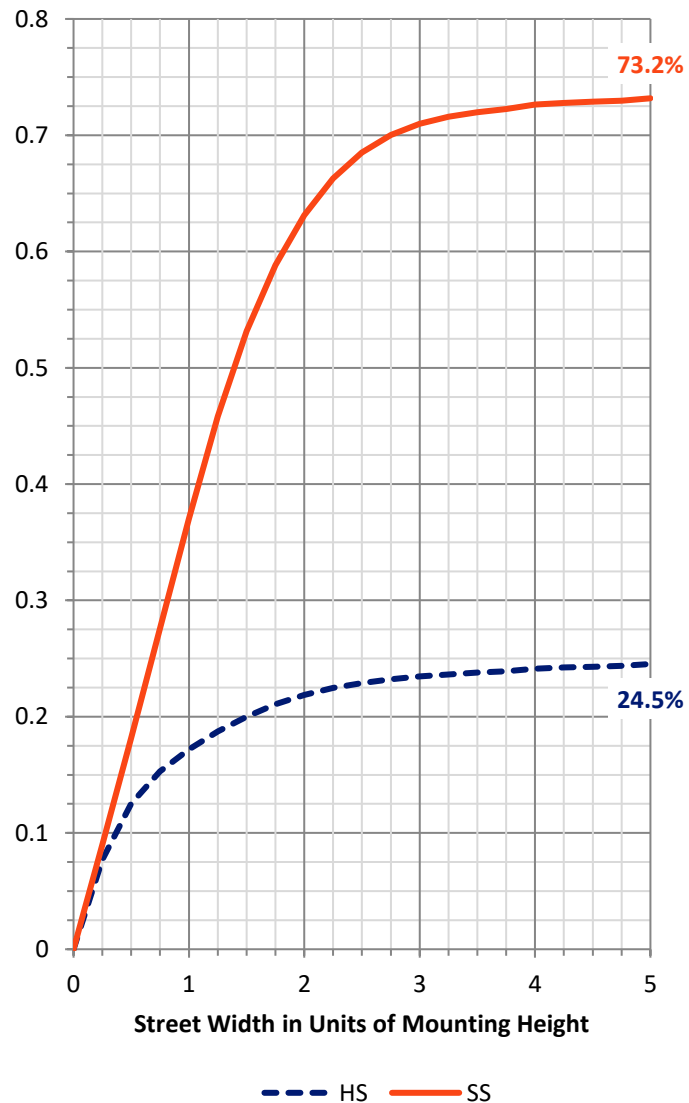
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1284.1	33.9	1318.1
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	3771.0	28.6	3799.6
	% Fixture	73.7	0.6	74.2
Total	Lumens	5055.2	62.5	5117.7
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.1
10°-20°	46.3	0.9
20°-30°	186.0	3.6
30°-40°	410.8	8.0
40°-50°	732.0	14.3
50°-60°	1174.8	23.0
60°-70°	1429.4	27.9
70°-80°	921.1	18.0
80°-90°	151.3	3.0
90°-100°	31.1	0.6
100°-110°	14.2	0.3
110°-120°	7.2	0.1
120°-130°	5.2	0.1
130°-140°	3.2	0.1
140°-150°	1.4	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5055.2	98.8
0°-180°	5117.7	100.0

Coefficient of Utilization



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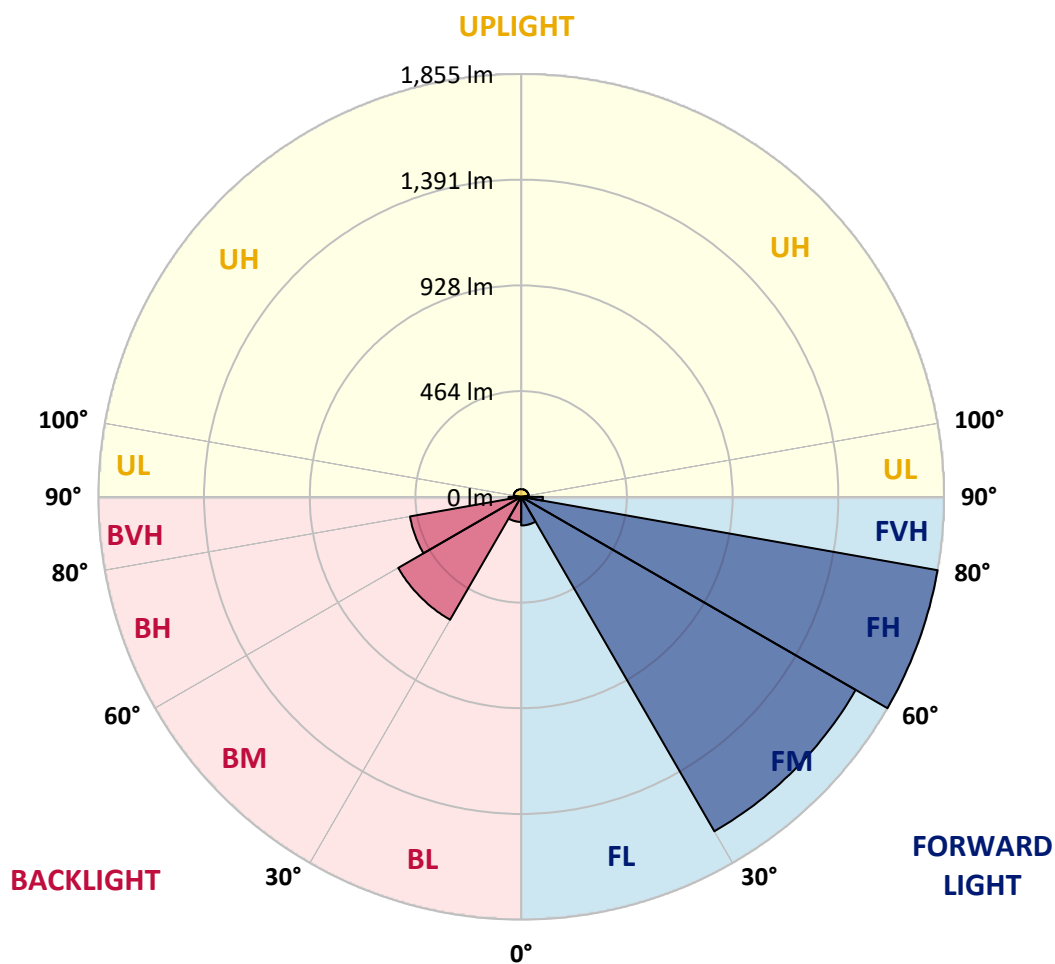
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	125.7	2.5			
FM	(30°-60°)	1694.5	33.1			
FH	(60°-80°)	1855.1	36.2			G2/5000
FVH	(80°-90°)	95.7	1.9			G1/100
BL	(0°-30°)	110.1	2.2	B1/500		
BM	(30°-60°)	623.0	12.2	B1/1000		
BH	(60°-80°)	495.3	9.7	B1/500		G1/500
BVH	(80°-90°)	55.6	1.1			G1/100
UL	(90°-100°)	31.1	0.6		U2/50	
UH	(100°-180°)	33.9	0.7		U2/50	

BUG Rating: B1-U2-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
0°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
2.5°	25.6	25.6	25.6	23.2	20.1	16.3	14.4	12.6	11.9	11.9	11.9
5°	57.1	59.5	57.1	56.4	50.8	62.1	25.1	16.9	12.6	11.3	11.3
7.5°	80.9	82.2	66.4	61.4	49.5	67.7	54.5	30.7	15.7	12.6	11.9
10°	140.4	121.1	102.8	101.6	95.3	71.4	48.9	43.9	24.5	18.8	19.4
12.5°	136.0	139.9	137.3	133.0	122.3	102.1	65.2	84.0	92.3	108.5	102.1
15°	166.8	164.3	145.5	146.7	139.2	147.9	132.3	139.9	131.6	114.7	119.7
17.5°	258.3	249.5	261.4	200.6	146.7	180.0	183.1	163.7	175.0	180.6	200.6
20°	295.3	282.8	297.8	255.2	243.3	204.5	195.0	296.5	276.5	290.3	292.9
22.5°	408.2	401.3	358.1	292.2	311.0	260.8	278.4	307.9	314.1	311.0	321.0
25°	514.8	514.2	509.1	449.6	331.7	370.0	321.7	351.2	453.3	516.0	521.7
27.5°	609.4	604.4	568.7	551.8	464.6	417.6	383.7	486.5	519.2	549.2	556.1
30°	770.6	803.2	726.0	627.5	562.4	481.0	516.0	513.5	625.2	766.8	774.3
32.5°	904.7	886.6	806.4	723.7	657.0	594.4	543.6	717.3	748.0	786.8	804.4
35°	1102.9	1109.8	1025.2	807.0	752.4	665.9	711.1	778.8	800.1	864.7	869.7
37.5°	1152.4	1207.0	1157.5	967.5	800.1	728.0	765.0	852.1	922.3	981.9	944.3
40°	1370.6	1343.1	1237.2	1084.1	898.5	815.1	935.5	986.9	997.5	1067.1	1075.9
42.5°	1584.5	1596.4	1465.2	1270.9	1026.4	947.4	1052.7	1038.9	1140.5	1200.8	1233.3
45°	1792.6	1798.3	1694.8	1449.0	1231.5	1168.1	1116.7	1175.6	1345.0	1359.4	1367.5
47.5°	1933.7	1934.3	1890.4	1643.4	1404.5	1261.5	1245.2	1308.6	1476.6	1502.4	1509.9
50°	2153.8	2148.1	2047.2	1773.2	1633.3	1446.5	1509.9	1486.0	1631.5	1724.3	1744.4
52.5°	2240.4	2212.1	2158.2	1962.0	1839.1	1654.0	1625.2	1668.5	1834.7	1918.7	1985.1
55°	2183.9	2232.8	2222.8	2081.7	1899.8	1836.5	1761.3	1923.6	1980.1	2109.2	2227.1
57.5°	2066.6	2150.7	2190.1	2137.4	2038.4	1894.8	2029.6	2005.2	2221.5	2466.0	2545.0
60°	1986.4	2038.4	2118.6	2182.7	2110.6	2057.9	2188.9	2316.9	2399.6	2637.8	2743.2
62.5°	1842.1	1891.8	2020.2	2113.1	2072.3	2089.8	2365.7	2432.7	2676.8	2875.4	3019.1
65°	1671.0	1717.3	1867.9	1965.0	2062.3	2131.2	2478.0	2607.7	2780.7	3153.2	3173.3
67°	1544.9	1571.9	1667.9	1854.6	2050.4	2184.5	2605.9	2703.6	2859.2	3273.6	3178.9
67.5°	1503.0	1529.3	1607.6	1801.3	2043.4	2192.7	2642.2	2731.9	2870.5	3261.1	3177.7
70°	1156.8	1250.3	1252.1	1437.1	1824.6	2132.4	2706.8	2829.0	2938.8	3170.8	3068.0
72.5°	692.8	692.8	724.8	906.7	1293.5	1907.3	2706.8	2795.2	2889.9	2921.3	2748.2
75°	335.4	319.8	363.1	435.2	651.5	1286.6	2439.6	2562.0	2573.9	2488.6	2229.0
77.5°	276.5	240.2	228.3	223.2	349.2	481.5	1630.2	2000.2	2000.7	1707.4	1494.1
80°	173.0	175.0	180.0	154.8	200.1	248.9	650.2	1218.2	1107.4	887.1	747.5
82.5°	122.3	126.6	128.5	114.7	139.9	116.6	216.4	514.2	447.6	309.1	262.1
85°	85.9	83.4	93.4	77.8	84.0	69.0	119.1	221.4	252.1	153.0	144.9
87.5°	51.5	51.5	62.8	52.7	57.7	49.5	72.1	108.5	125.4	86.6	80.9
90°	30.7	28.2	29.5	30.0	32.6	28.2	38.9	52.0	54.5	43.9	40.1
92.5°	23.2	23.2	25.1	23.8	29.5	25.6	33.9	40.8	49.5	37.5	35.1
95°	15.1	16.9	18.8	19.4	22.6	19.4	28.2	33.3	37.0	28.9	27.7
97.5°	13.7	15.1	16.3	16.3	18.8	15.7	23.2	29.5	29.5	22.6	20.6
100°	13.2	13.7	14.4	14.4	15.7	12.6	18.1	25.6	25.6	18.8	17.6
102.5°	11.9	12.6	11.9	11.3	13.2	10.1	15.1	22.6	18.1	14.4	15.1
105°	11.9	11.9	10.7	9.4	10.7	8.2	13.2	16.3	12.6	11.9	12.6
107.5°	11.3	11.3	8.7	8.2	8.7	6.9	10.7	11.3	10.1	11.3	11.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	10.7	10.1	8.2	6.9	6.9	6.2	8.2	8.2	8.2	10.7	11.9
112.5°	9.4	8.7	6.9	5.7	5.7	5.0	5.7	6.2	7.5	10.1	11.3
115°	8.7	8.2	6.2	5.0	4.4	4.4	5.0	5.0	6.9	10.1	11.3
117.5°	8.7	8.2	5.7	5.0	3.8	3.8	4.4	5.0	6.9	10.1	11.3
120°	8.2	8.2	5.7	4.4	3.8	3.2	3.8	4.4	6.9	10.7	11.3
122.5°	8.2	7.5	5.7	4.4	3.2	3.2	3.2	3.8	6.2	10.1	10.7
125°	7.5	7.5	5.0	3.8	3.2	2.5	3.2	3.8	6.9	10.1	10.7
127.5°	7.5	6.9	5.0	3.8	2.5	2.5	3.2	3.2	6.2	9.4	10.1
130°	7.5	6.9	5.0	3.2	2.5	2.5	2.5	3.2	6.2	8.7	9.4
132.5°	6.2	6.2	4.4	3.2	2.5	1.8	2.5	2.5	5.0	7.5	8.2
135°	6.2	5.7	4.4	3.2	2.5	1.8	1.8	2.5	5.0	6.9	6.9
137.5°	5.7	5.0	4.4	3.2	1.8	1.8	1.2	1.8	4.4	5.7	6.2
140°	5.0	5.0	3.8	3.2	1.8	1.2	1.2	1.8	3.2	4.4	5.0
142.5°	5.0	5.0	4.4	3.2	1.8	1.2	1.2	1.2	2.5	3.8	3.8
145°	4.4	4.4	3.8	2.5	1.2	0.6	0.6	1.2	1.8	2.5	3.2
147.5°	4.4	4.4	3.8	2.5	1.2	0.6	0.6	1.2	1.8	2.5	2.5
150°	3.8	3.8	3.2	1.8	0.6	0.0	0.0	0.6	1.2	1.8	1.8
152.5°	2.5	2.5	1.8	1.2	0.0	0.0	0.0	0.6	1.2	1.2	1.2
155°	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
157.5°	0.6	0.6	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°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
2.5°	11.9	11.9	11.9	11.9	11.9	11.9	11.3	11.3	11.3	11.3	11.3
5°	10.7	10.7	11.3	11.3	11.3	11.3	11.3	11.9	12.6	12.6	13.2
7.5°	11.9	11.9	11.3	11.3	11.9	13.2	21.3	45.2	85.2	79.0	78.3
10°	18.8	18.8	16.9	15.7	16.9	61.4	96.5	91.6	77.1	75.3	72.7
12.5°	119.1	111.0	89.7	56.4	82.2	77.8	90.2	106.0	138.0	144.9	139.9
15°	119.7	124.8	134.8	146.1	184.9	82.2	159.3	195.0	208.1	208.1	212.5
17.5°	208.1	224.4	172.4	155.4	184.3	225.7	178.1	198.1	196.2	196.8	191.2
20°	338.6	306.0	337.3	302.8	206.9	252.7	222.1	212.5	286.6	341.1	341.1
22.5°	335.4	355.5	351.2	348.0	364.3	224.4	283.4	307.9	319.1	304.8	326.6
25°	560.0	538.6	509.1	347.3	349.2	312.3	306.0	287.2	312.3	336.7	331.7
27.5°	585.6	590.6	534.9	517.3	366.1	351.2	288.5	334.3	364.3	366.1	363.1
30°	799.4	809.5	631.4	476.5	411.4	320.3	337.3	322.4	336.7	353.7	363.1
32.5°	845.8	830.8	697.2	536.7	403.1	339.2	310.4	322.4	376.8	376.8	373.6
35°	901.1	889.7	718.6	509.8	439.6	317.3	287.2	321.0	336.7	364.3	366.1
37.5°	1012.0	1005.7	788.8	508.5	391.2	299.7	316.0	324.2	329.2	335.4	329.9
40°	1085.4	1037.1	810.0	531.1	378.7	347.3	329.2	305.4	309.8	294.0	287.2
42.5°	1223.2	1142.5	830.8	516.0	369.3	383.1	306.0	301.5	290.9	274.7	274.7
45°	1363.8	1260.3	858.3	485.3	356.1	371.8	315.4	308.4	299.1	296.5	290.9
47.5°	1506.6	1367.5	854.0	504.8	399.5	348.0	395.0	331.7	285.2	309.8	307.9
50°	1741.8	1541.8	857.8	466.5	398.1	341.8	395.6	314.1	305.4	324.2	326.0
52.5°	1933.7	1660.3	909.8	444.5	385.5	395.6	374.3	380.6	359.9	354.2	361.2
55°	2163.3	1812.1	875.9	418.3	375.7	373.1	440.8	383.1	364.3	382.5	384.4
57.5°	2451.0	2023.4	883.5	375.7	378.7	359.3	431.3	428.9	417.6	408.8	405.7
60°	2617.8	2091.1	813.2	400.7	366.8	396.3	457.7	444.5	385.0	447.1	457.1
62.5°	2748.9	2196.4	640.8	396.3	407.5	378.0	420.1	433.9	405.7	452.7	458.4
65°	2780.7	2190.7	490.9	406.9	403.1	420.1	497.2	426.3	354.2	361.2	364.3
67°	2737.0	2141.3	398.1	387.6	408.8	404.4	411.4	366.1	327.3	334.3	339.2
67.5°	2711.9	2101.2	377.5	386.2	422.7	403.8	403.1	352.4	319.8	328.6	330.4
70°	2478.5	1882.3	316.0	381.2	418.8	366.8	376.8	310.4	282.1	285.2	286.6
72.5°	2122.5	1510.5	301.5	379.3	411.4	306.0	289.6	253.9	240.2	235.8	229.5
75°	1628.9	1040.8	297.8	342.3	337.9	231.4	231.9	211.3	212.5	203.1	199.4
77.5°	981.2	583.1	253.3	289.6	253.3	176.8	191.9	187.5	192.6	182.5	176.2
80°	470.3	284.6	200.1	213.2	178.7	138.5	163.7	170.6	171.7	157.4	150.4
82.5°	201.2	147.4	135.5	133.6	127.3	107.2	132.3	139.2	140.4	131.6	105.3
85°	118.5	100.3	93.4	89.7	88.4	66.4	94.7	112.2	112.2	92.8	80.3
87.5°	74.0	73.3	65.9	65.9	69.0	47.0	65.2	77.1	72.7	55.1	43.9
90°	35.1	37.5	39.6	40.1	47.0	26.3	41.9	44.5	41.9	30.0	21.3
92.5°	28.2	32.0	34.5	35.7	42.6	22.6	37.5	40.1	38.2	30.0	21.3
95°	23.2	28.9	34.5	33.9	35.7	17.6	33.3	36.4	35.1	26.3	18.1
97.5°	18.8	23.2	28.2	28.2	32.6	15.1	30.7	34.5	33.9	23.8	17.6
100°	16.9	20.6	25.1	24.5	28.9	11.9	27.7	30.0	29.5	19.4	15.7
102.5°	15.1	16.9	19.4	19.4	21.3	10.1	20.6	23.2	22.0	16.3	15.7
105°	13.7	14.4	13.7	13.2	13.7	8.7	13.2	15.1	13.2	12.6	12.6
107.5°	13.2	13.2	11.3	10.7	10.1	7.5	9.4	10.1	8.7	11.3	12.6



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	13.2	12.6	10.1	9.4	8.2	6.9	7.5	7.5	7.5	11.3	11.9
112.5°	12.6	12.6	9.4	8.2	7.5	6.2	6.2	5.7	6.9	11.3	12.6
115°	12.6	11.9	8.7	7.5	6.2	5.7	5.0	5.0	6.2	11.3	12.6
117.5°	12.6	11.9	8.7	6.9	6.2	5.0	4.4	4.4	6.2	11.3	12.6
120°	12.6	12.6	8.7	6.2	5.7	5.0	4.4	4.4	6.2	10.7	11.9
122.5°	11.9	11.9	8.2	6.2	5.0	4.4	3.8	3.8	6.2	10.7	11.3
125°	11.3	11.3	8.2	5.7	4.4	3.8	3.8	3.8	6.2	10.1	11.3
127.5°	10.7	10.7	7.5	5.0	3.8	3.8	3.2	3.2	6.2	10.1	10.7
130°	10.1	10.1	6.9	4.4	3.8	3.2	2.5	3.2	6.2	9.4	10.1
132.5°	8.7	8.7	6.2	3.8	3.2	2.5	2.5	2.5	5.7	8.7	9.4
135°	7.5	7.5	5.7	3.8	3.2	2.5	1.8	2.5	5.0	7.5	8.2
137.5°	6.9	6.9	5.0	3.2	2.5	1.8	1.8	2.5	5.0	6.9	7.5
140°	5.0	5.0	3.8	2.5	1.8	1.8	1.2	1.8	4.4	5.7	6.2
142.5°	3.8	3.8	3.2	2.5	1.8	1.2	1.2	1.8	3.8	5.0	5.0
145°	3.2	3.2	2.5	1.8	1.8	1.2	0.6	1.2	3.2	4.4	4.4
147.5°	2.5	2.5	2.5	1.8	1.2	0.6	0.6	0.6	1.8	3.2	3.2
150°	1.8	1.8	1.8	1.8	1.2	0.0	0.0	0.0	1.2	1.8	1.8
152.5°	1.2	1.2	1.2	1.2	0.6	0.0	0.0	0.0	0.0	0.6	0.6
155°	0.6	1.2	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.6	0.6	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)