

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: P240589

Luminaire Tested: **UTLD-AF24-50-D-U-T2U-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240589
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-AF24-50-D-U-T2U-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 670mA 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: 5295.8 lumens
Efficiency: N/A
Efficacy: 98.1 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: B2 - U3 - 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

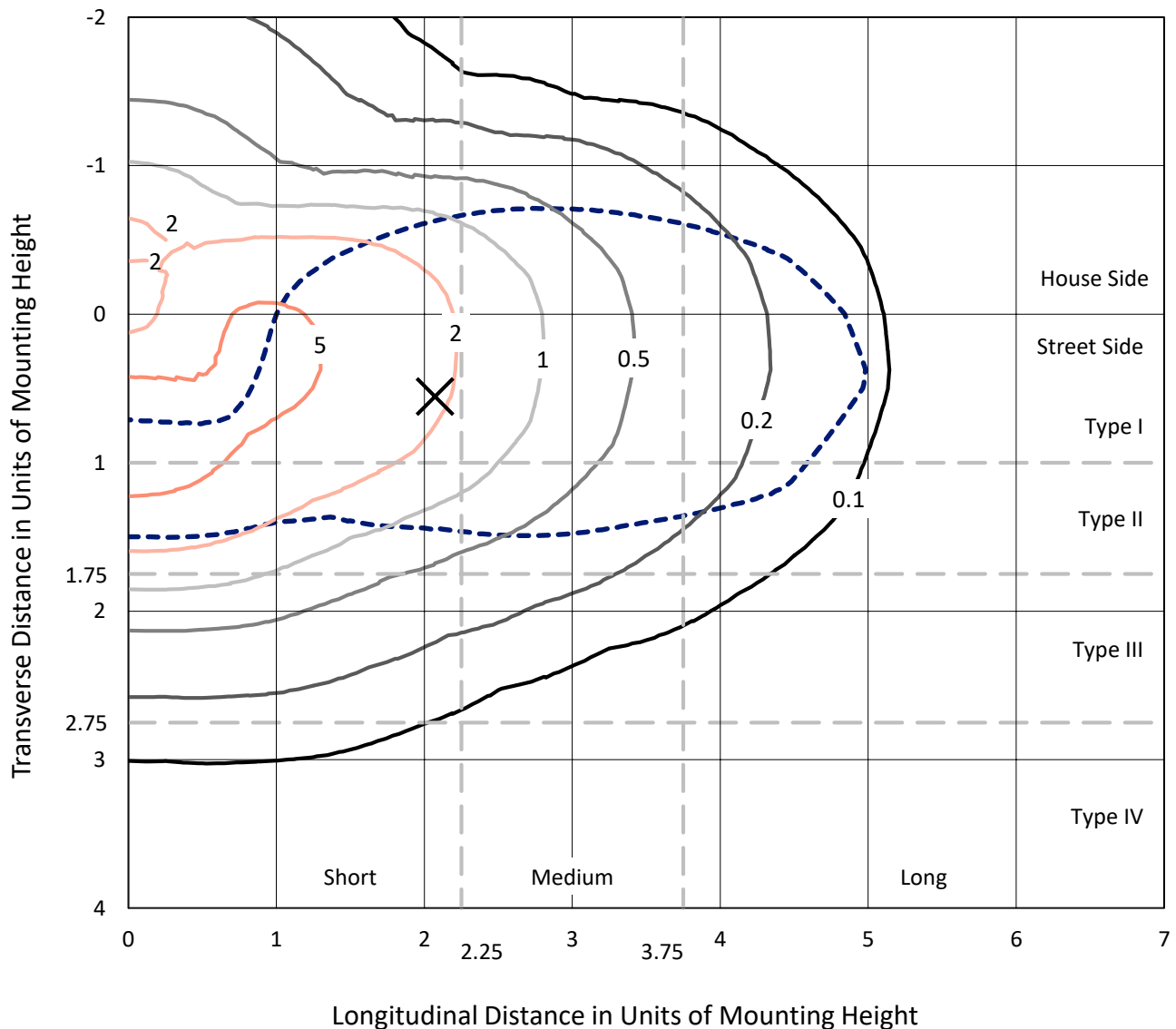


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

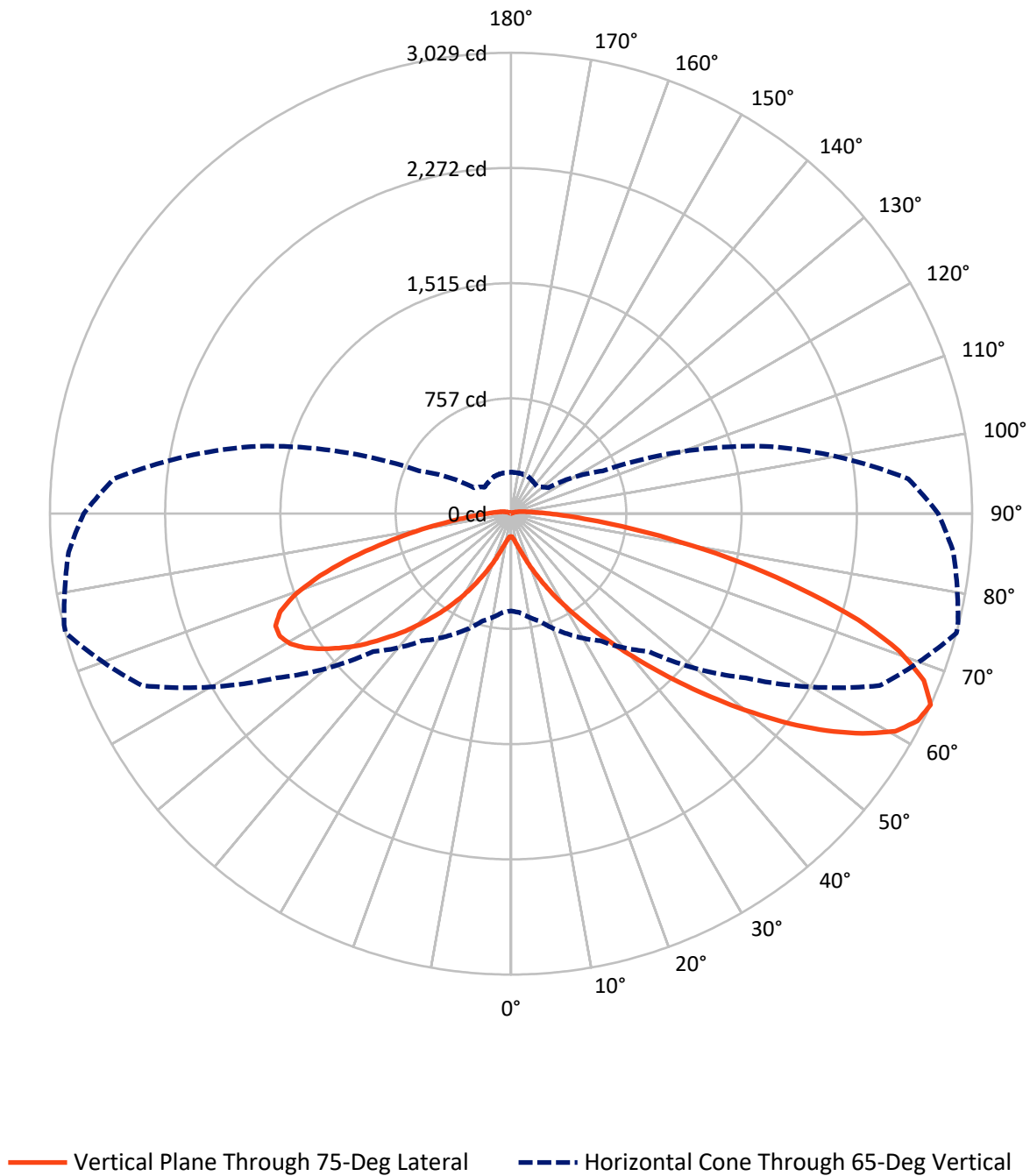


Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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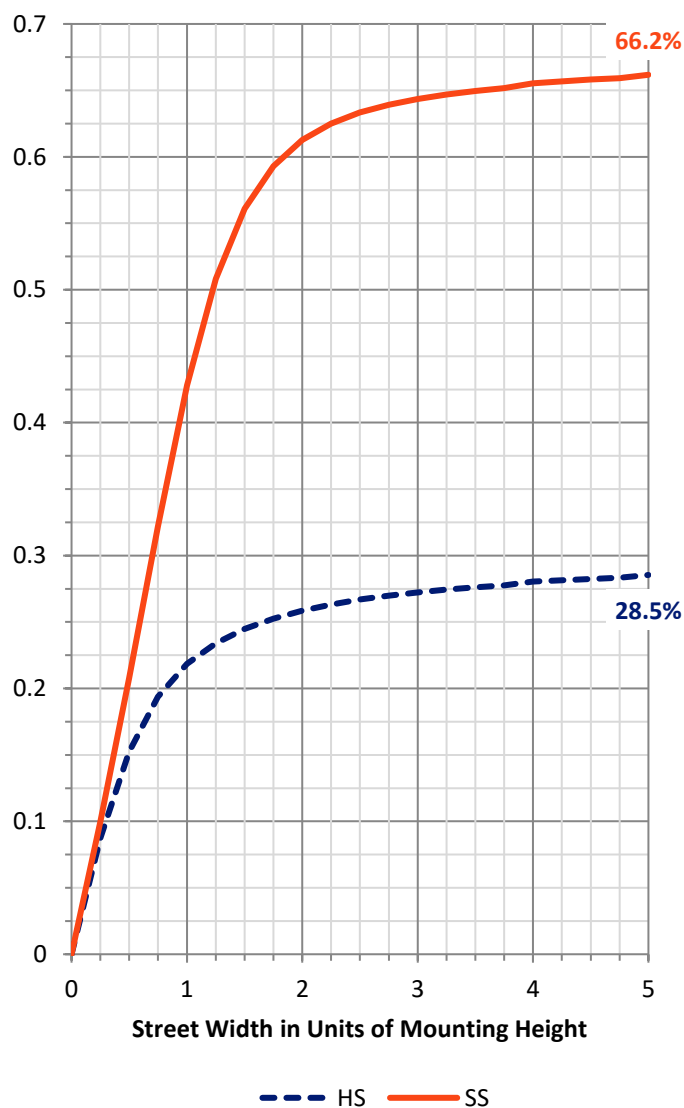
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1563.7	93.7	1657.4
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	3554.0	84.3	3638.4
	% Fixture	67.1	1.6	68.7
Total	Lumens	5117.7	178.1	5295.8
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.6	0.3
10°-20°	76.6	1.4
20°-30°	223.3	4.2
30°-40°	500.9	9.5
40°-50°	891.4	16.8
50°-60°	1211.4	22.9
60°-70°	1176.4	22.2
70°-80°	741.5	14.0
80°-90°	279.6	5.3
90°-100°	95.2	1.8
100°-110°	43.1	0.8
110°-120°	20.8	0.4
120°-130°	10.9	0.2
130°-140°	5.7	0.1
140°-150°	2.1	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5117.7	96.6
0°-180°	5295.8	100.0

Coefficient of Utilization



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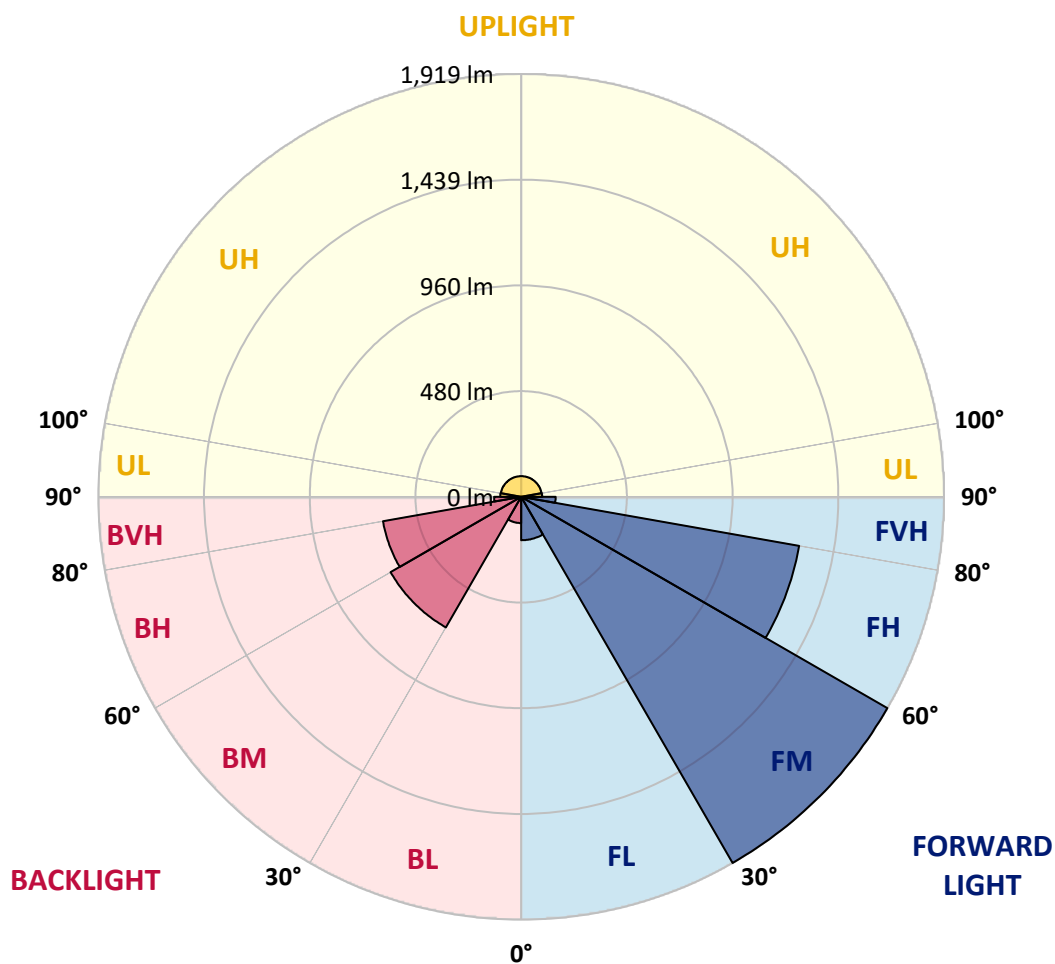
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	197.2	3.7			
FM	(30°-60°)	1919.3	36.2			
FH	(60°-80°)	1281.1	24.2			G1/1800
FVH	(80°-90°)	156.5	3.0			G2/225
BL	(0°-30°)	119.3	2.3	B1/500		
BM	(30°-60°)	684.5	12.9	B1/1000		
BH	(60°-80°)	636.8	12.0	B2/1000		G2/1000
BVH	(80°-90°)	123.1	2.3			G2/225
UL	(90°-100°)	95.2	1.8		U3/500	
UH	(100°-180°)	93.7	1.8		U3/500	

BUG Rating: B2-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	150.6	150.6	150.6	150.6	150.6	150.6	150.6	150.6	150.6	150.6	150.6
2.5°	163.8	163.2	163.2	163.2	161.8	160.5	158.6	157.2	155.2	154.6	153.9
5°	181.1	181.1	180.4	179.7	178.4	175.1	171.8	169.1	165.8	165.1	162.4
7.5°	208.3	207.6	206.9	203.6	201.6	197.0	191.7	187.7	181.8	181.8	177.8
10°	244.1	242.7	240.8	237.4	230.2	224.1	218.2	210.9	204.9	204.3	198.4
12.5°	286.5	286.5	283.9	277.2	267.9	259.3	249.4	241.4	233.4	232.8	227.5
15°	344.9	345.6	337.0	326.9	313.7	300.4	287.9	280.6	271.3	273.2	266.0
17.5°	417.2	415.8	408.6	388.6	366.7	349.5	334.9	326.9	319.7	320.4	315.1
20°	508.0	506.8	494.1	467.6	431.8	405.9	388.6	383.4	379.4	377.4	372.0
22.5°	620.1	613.5	588.3	553.8	510.7	473.5	455.0	447.0	445.7	446.4	441.1
25°	745.5	742.9	711.0	655.9	600.3	552.5	524.0	522.6	524.7	521.3	521.3
27.5°	898.0	890.8	853.6	777.3	697.8	640.7	607.5	604.3	613.5	610.8	606.9
30°	1076.5	1065.2	1014.8	917.3	815.1	738.9	700.4	700.4	710.3	710.3	709.0
32.5°	1262.8	1260.8	1182.5	1068.5	947.8	847.0	813.8	808.5	818.5	823.8	817.1
35°	1472.4	1457.2	1367.0	1237.7	1081.8	971.0	929.9	937.1	945.1	945.8	935.2
37.5°	1685.9	1670.7	1567.3	1407.4	1225.7	1106.3	1063.9	1069.2	1081.8	1081.8	1067.9
40°	1869.0	1852.5	1751.0	1584.4	1384.9	1256.9	1211.8	1227.0	1235.6	1238.9	1216.4
42.5°	2013.6	2001.7	1910.8	1741.1	1538.1	1408.1	1378.9	1404.1	1412.7	1419.3	1386.8
45°	2094.5	2084.6	2021.6	1868.3	1666.7	1559.3	1564.6	1595.1	1611.7	1604.4	1569.2
47.5°	2107.2	2099.2	2064.0	1947.3	1784.8	1704.5	1755.0	1800.7	1826.0	1826.6	1766.8
50°	2028.9	2032.2	2032.8	1965.9	1851.1	1822.6	1932.7	2035.5	2054.7	2044.2	1973.8
52.5°	1877.0	1875.0	1913.4	1913.4	1863.1	1895.5	2081.9	2265.6	2292.2	2289.6	2192.1
55°	1651.5	1653.5	1725.1	1781.5	1800.1	1910.8	2203.9	2473.9	2517.7	2513.7	2406.3
57.5°	1371.0	1390.2	1478.4	1586.5	1670.7	1845.8	2260.3	2653.0	2724.6	2725.2	2595.3
60°	1098.3	1118.2	1221.0	1359.7	1481.7	1720.5	2222.6	2745.8	2903.0	2895.8	2757.8
62.5°	839.0	859.6	958.4	1116.2	1258.2	1520.2	2093.9	2765.0	2997.9	2993.3	2874.5
65°	638.7	651.9	731.5	870.2	1019.4	1280.7	1882.3	2673.6	3029.1	3025.7	2917.7
67.5°	477.5	483.5	559.1	671.2	800.6	1035.9	1589.8	2453.3	2925.5	2928.9	2868.6
70°	367.4	371.4	426.5	524.0	620.1	809.9	1288.0	2135.6	2708.1	2716.7	2714.7
72.5°	291.8	297.8	341.6	412.6	482.2	613.5	996.1	1727.8	2385.7	2403.6	2457.3
75°	240.8	247.3	280.6	333.0	383.4	466.9	724.2	1325.8	1961.2	1999.1	2118.4
77.5°	199.0	205.6	233.4	274.6	305.8	356.8	530.6	980.3	1540.8	1556.6	1714.5
80°	163.2	169.1	194.4	226.2	248.7	278.5	386.7	688.4	1123.5	1143.5	1297.3
82.5°	130.0	135.3	158.6	184.3	203.0	223.5	286.5	471.6	782.7	797.2	898.7
85°	100.1	105.5	125.3	147.9	163.8	180.4	219.5	328.3	518.0	535.2	609.5
87.5°	75.0	79.6	96.2	115.4	132.0	145.9	169.1	226.8	345.6	360.2	395.3
90°	55.0	58.4	72.9	87.6	102.8	118.0	132.7	165.8	230.2	236.1	260.6
92.5°	41.1	43.1	55.0	67.6	82.2	95.5	104.8	122.0	161.8	162.4	179.7
95°	30.5	32.5	42.5	53.1	65.7	78.3	86.2	94.8	118.8	120.7	131.3
97.5°	24.6	25.2	33.9	43.1	53.7	64.3	71.0	75.6	90.8	92.9	100.1
100°	20.6	21.2	28.5	36.5	45.7	55.0	59.7	61.7	71.6	73.7	79.0
102.5°	17.9	17.9	24.6	31.8	39.8	46.4	49.7	51.0	57.7	57.7	61.7
105°	16.0	16.0	21.2	27.8	34.5	40.5	42.5	42.5	45.1	45.7	47.8
107.5°	14.6	14.6	19.2	25.2	30.5	35.2	36.5	35.2	35.8	35.8	37.1
110°	13.3	13.3	16.6	22.5	27.2	30.5	31.2	29.9	27.8	27.8	29.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	12.0	12.6	15.2	19.9	23.8	27.2	27.2	25.2	21.9	21.9	23.2
115°	11.3	11.3	13.9	17.9	21.2	23.8	23.8	21.2	17.9	17.3	18.6
117.5°	10.6	10.6	12.0	16.0	19.2	21.2	21.2	17.9	14.6	14.6	16.0
120°	9.9	9.9	11.3	14.6	17.3	19.2	18.6	16.0	12.6	12.6	13.9
122.5°	9.9	9.9	10.6	13.3	15.2	16.6	16.0	13.3	10.6	10.6	12.0
125°	9.3	9.3	9.9	12.0	13.9	15.2	13.9	11.3	9.9	9.9	10.6
127.5°	9.3	9.3	9.3	10.6	12.6	13.3	12.6	9.9	8.6	8.6	9.9
130°	8.6	8.6	9.3	9.9	11.3	12.0	10.6	8.6	8.0	8.0	9.3
132.5°	8.6	8.6	8.6	8.6	9.3	9.9	8.6	6.6	7.3	7.3	8.0
135°	8.0	8.0	8.0	8.0	8.6	8.6	7.3	5.9	6.6	6.6	7.3
137.5°	7.3	7.3	7.3	7.3	7.3	6.6	5.9	5.3	5.9	5.9	6.6
140°	6.6	6.6	6.6	5.9	5.3	5.3	4.6	4.0	4.6	4.6	5.3
142.5°	5.9	5.9	5.9	5.3	4.6	4.0	3.3	3.3	4.0	4.0	4.6
145°	5.3	5.3	4.6	4.0	3.3	2.7	1.9	2.7	3.3	3.3	4.0
147.5°	4.0	4.0	4.0	3.3	1.9	1.3	1.3	1.9	2.7	2.7	2.7
150°	3.3	3.3	3.3	2.7	1.3	0.6	0.6	1.3	1.3	1.3	1.9
152.5°	1.9	1.9	1.9	1.9	0.6	0.0	0.0	0.6	1.3	1.3	1.3
155°	1.3	1.3	1.3	0.6	0.6	0.0	0.0	0.6	0.6	0.6	0.6
157.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.6	0.6	0.6
160°	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.6	0.0
162.5°	0.0	0.0	0.0	0.6	0.6	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°	150.6	150.6	150.6	150.6	150.6	150.6	150.6	150.6	150.6	150.6	150.6
2.5°	153.2	152.5	151.2	149.9	148.5	147.2	145.9	145.3	143.9	143.9	143.9
5°	161.2	159.2	156.5	153.9	151.2	149.2	147.2	145.3	143.9	143.2	142.6
7.5°	175.7	173.1	168.5	164.5	159.9	155.9	152.5	149.9	148.5	147.9	147.9
10°	195.7	192.3	186.4	178.4	173.1	167.2	161.8	158.6	155.9	155.2	154.6
12.5°	222.2	218.9	208.9	200.3	190.4	181.1	175.1	171.1	169.1	168.5	168.5
15°	260.0	256.0	240.1	225.5	209.6	198.4	190.4	187.0	187.7	189.7	187.7
17.5°	307.1	301.2	282.5	258.7	234.8	217.6	210.2	210.9	213.6	215.5	214.9
20°	365.4	356.8	330.9	297.2	264.6	241.4	234.2	234.8	238.1	244.1	243.5
22.5°	433.7	420.5	387.3	341.6	295.8	269.2	256.0	258.0	265.3	271.3	271.3
25°	508.7	496.7	449.7	388.6	331.6	292.5	275.9	278.5	289.2	295.8	297.8
27.5°	597.6	579.0	520.7	441.1	365.4	313.0	292.5	293.8	307.1	315.7	317.0
30°	692.4	670.5	597.6	493.5	395.3	329.0	302.5	305.0	319.7	329.6	331.6
32.5°	799.2	773.4	677.8	548.5	423.2	338.3	307.7	310.4	325.6	337.0	338.3
35°	917.9	880.1	764.0	598.9	441.7	341.6	307.7	311.1	325.6	337.0	338.9
37.5°	1038.6	996.1	848.3	647.3	453.0	338.9	303.1	307.1	320.4	330.9	333.0
40°	1179.3	1124.8	940.5	687.1	457.0	331.6	295.1	299.8	311.1	319.7	321.0
42.5°	1339.8	1262.8	1037.3	721.0	451.0	322.3	287.1	292.5	301.8	307.7	308.4
45°	1506.2	1413.4	1131.5	747.5	442.4	311.1	279.3	285.2	293.2	294.5	295.8
47.5°	1685.9	1582.5	1234.3	763.4	427.1	299.1	273.2	279.3	284.5	283.9	284.5
50°	1885.0	1757.6	1339.1	770.1	409.9	289.2	268.6	275.3	279.3	275.9	275.9
52.5°	2079.2	1949.2	1434.6	772.6	390.7	279.9	265.3	273.2	275.3	271.9	271.9
55°	2286.2	2126.4	1530.1	765.4	371.4	272.6	263.9	272.6	273.9	269.2	269.2
57.5°	2477.2	2315.3	1616.4	754.1	353.5	266.0	262.0	271.9	273.2	269.2	270.0
60°	2653.0	2476.0	1683.4	735.5	334.3	259.3	260.6	271.9	273.2	270.6	271.9
62.5°	2760.4	2582.0	1718.5	706.3	315.7	253.4	258.7	270.6	273.2	271.3	272.6
65°	2806.9	2619.8	1713.9	664.6	297.8	246.0	254.7	267.9	271.3	271.3	272.6
67.5°	2771.7	2585.3	1646.1	610.8	281.2	238.8	249.4	262.7	267.3	268.6	270.6
70°	2641.1	2442.7	1510.2	543.2	263.3	230.8	242.7	255.3	260.6	263.3	264.6
72.5°	2380.4	2203.3	1317.3	475.6	244.7	220.9	232.8	244.7	250.7	254.0	254.0
75°	2049.5	1872.3	1084.4	404.0	227.5	209.6	220.9	230.8	237.4	240.8	239.5
77.5°	1648.8	1483.7	842.3	330.9	208.9	196.3	206.9	215.5	220.9	223.5	220.2
80°	1221.7	1116.2	632.7	273.2	190.4	181.1	189.7	197.0	203.0	202.3	199.7
82.5°	866.2	766.7	443.0	226.8	171.8	164.5	171.1	175.7	179.7	178.4	173.8
85°	577.0	512.0	313.0	185.1	152.5	146.6	150.6	153.2	155.2	151.9	148.5
87.5°	375.4	334.3	225.5	152.5	132.0	128.0	130.0	130.6	131.3	128.0	124.0
90°	245.4	228.1	167.8	126.0	113.4	110.8	110.8	108.1	108.7	104.8	100.9
92.5°	173.1	162.4	130.6	103.4	96.9	94.8	94.2	90.8	90.2	86.2	83.6
95°	129.3	124.7	105.5	87.6	82.2	81.5	80.3	76.9	74.3	70.3	68.9
97.5°	100.9	98.8	86.8	75.0	71.0	69.7	68.9	65.0	63.0	59.0	57.7
100°	80.3	80.3	72.9	64.3	61.0	60.4	59.7	55.8	53.7	49.7	49.1
102.5°	64.3	65.0	61.0	55.8	53.1	51.8	50.4	47.8	44.4	41.7	41.7
105°	50.4	51.8	50.4	47.1	45.7	44.4	43.1	40.5	37.1	34.5	34.5
107.5°	39.8	41.1	41.1	40.5	38.5	37.8	37.1	33.9	31.2	28.5	28.5
110°	30.5	32.5	33.9	33.9	33.9	32.5	31.2	29.2	25.9	23.8	23.8



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CATALOG NUMBER: UTLD-AF24-50-D-U-T2U-TL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	24.6	25.9	27.8	28.5	28.5	28.5	27.2	23.8	21.2	19.9	20.6
115°	19.9	21.2	23.2	24.6	24.6	24.6	22.5	20.6	17.9	17.3	17.3
117.5°	16.6	17.9	19.2	21.2	21.2	21.2	19.9	17.3	14.6	14.6	14.6
120°	14.6	15.2	17.3	17.9	18.6	18.6	17.3	14.6	12.6	12.6	13.3
122.5°	12.6	13.3	14.6	16.0	16.6	16.0	14.6	12.0	10.6	11.3	11.3
125°	11.3	12.0	12.6	13.9	14.6	13.9	12.6	9.9	9.3	9.9	9.9
127.5°	10.6	10.6	11.3	12.0	12.6	12.0	10.6	8.6	8.0	9.3	9.3
130°	9.3	9.9	9.9	10.6	10.6	10.6	9.3	7.3	7.3	8.0	8.0
132.5°	8.6	8.6	8.6	9.3	9.3	8.6	7.3	5.9	6.6	7.3	7.3
135°	7.3	8.0	8.0	8.0	8.0	7.3	5.9	5.3	5.9	6.6	6.6
137.5°	6.6	6.6	6.6	6.6	6.6	5.9	5.3	4.6	5.3	5.3	5.3
140°	5.3	5.9	5.9	5.3	5.3	4.6	4.0	3.3	4.0	4.6	4.6
142.5°	4.6	4.6	4.6	4.6	4.0	3.3	2.7	2.7	3.3	3.3	3.3
145°	4.0	4.0	4.0	3.3	2.7	2.7	1.9	1.9	2.7	2.7	3.3
147.5°	2.7	2.7	2.7	2.7	1.9	1.9	1.3	1.3	1.9	1.9	1.9
150°	1.9	1.9	1.9	1.9	1.3	1.3	1.3	0.6	1.3	1.3	1.3
152.5°	1.3	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6
155°	0.6	0.6	1.3	1.3	0.6	0.6	0.6	0.0	0.0	0.0	0.0
157.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
160°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
162.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	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)