

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: P241020

Luminaire Tested: **UTLD-AF24-40-D-U-T4W-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-47)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-40-D-U-T4W-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4205.3 lumens
Efficiency: N/A
Efficacy: 105.1 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 - U2 - G1

Input Watts (W): 40
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

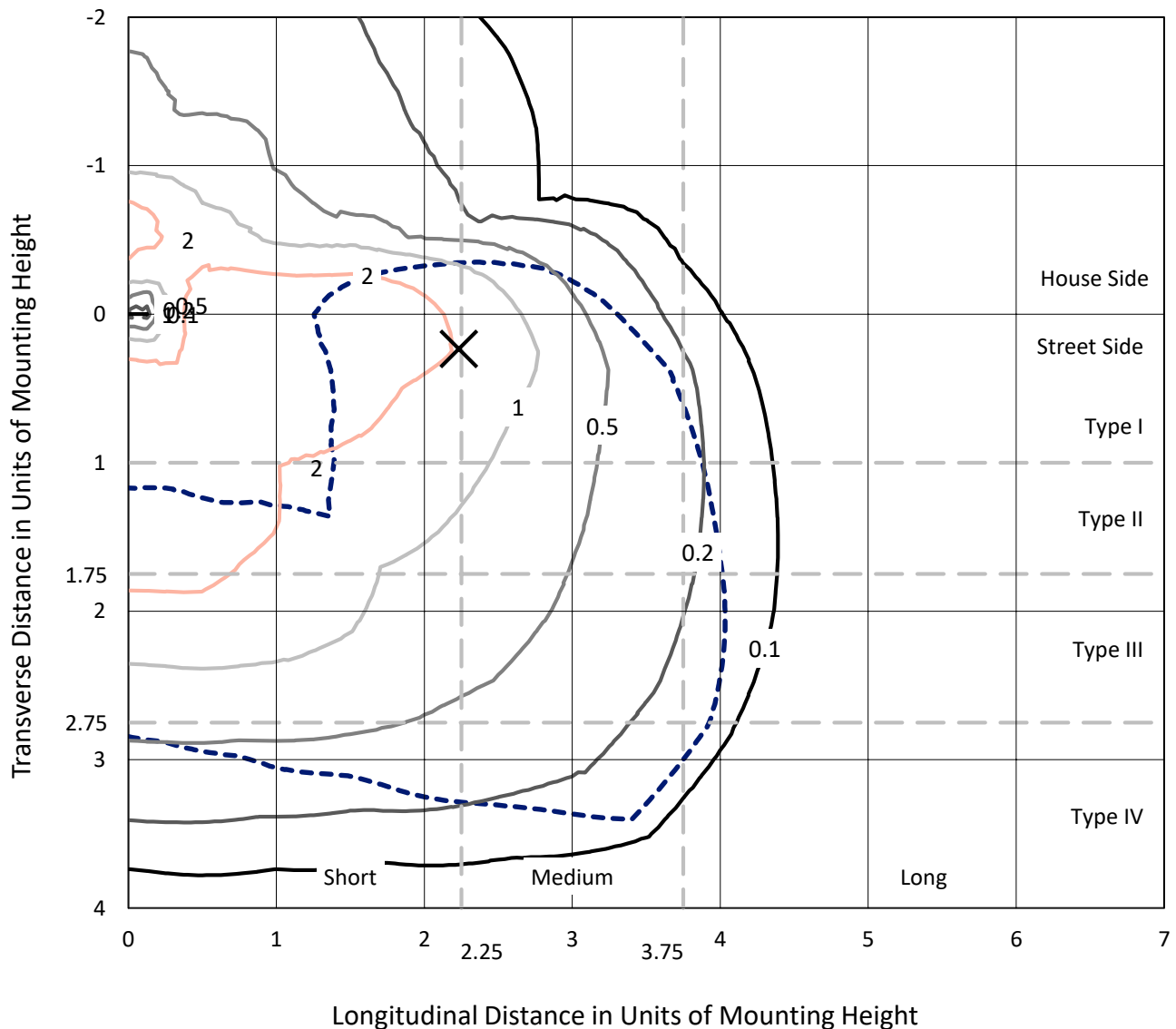


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

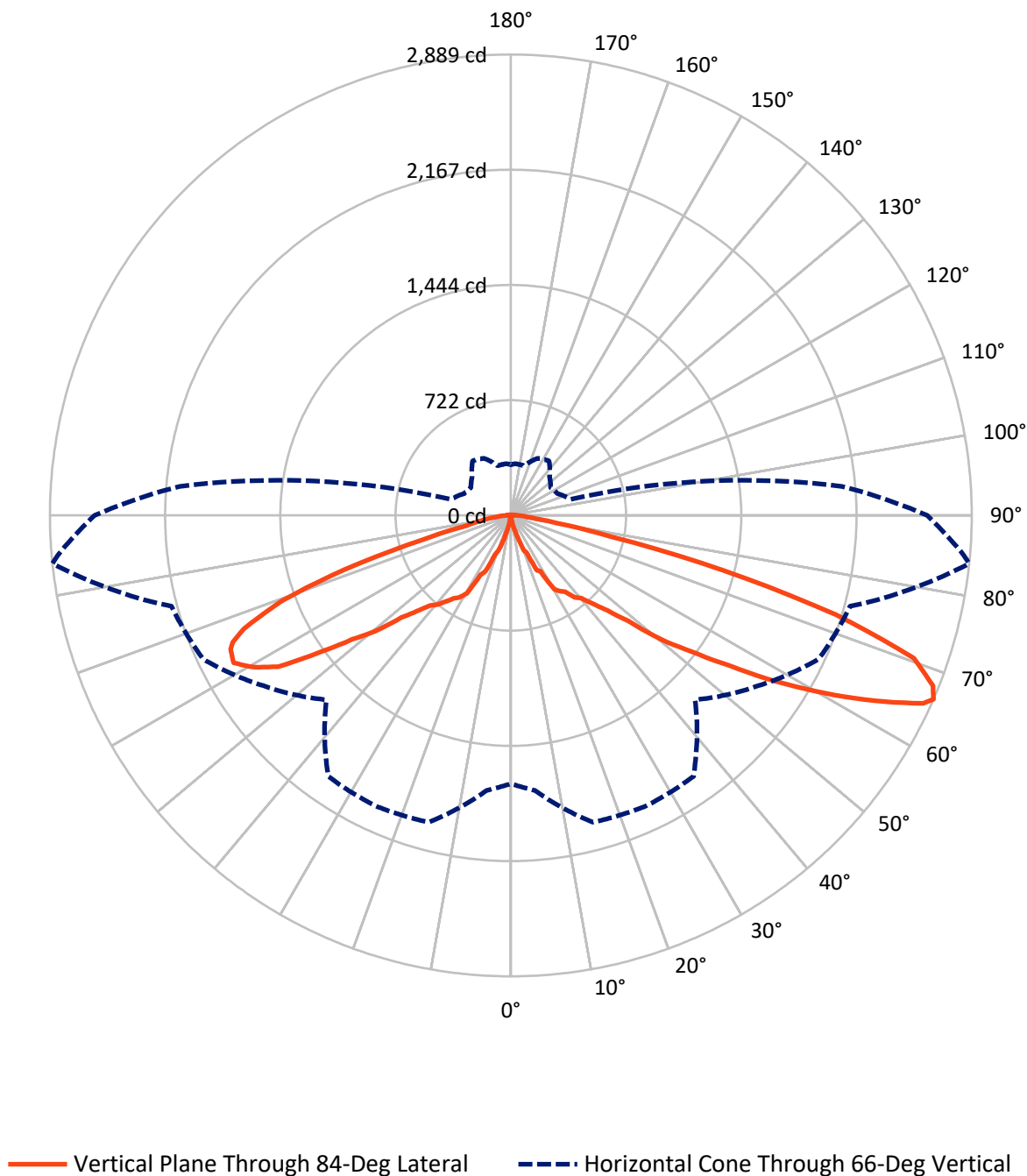


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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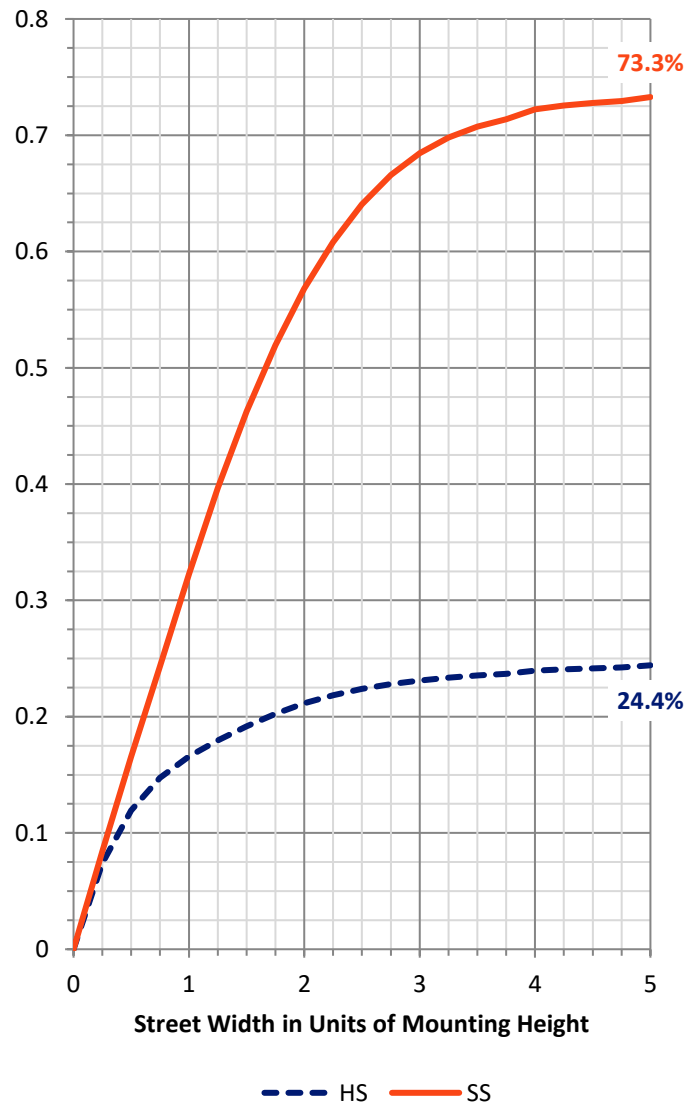
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1052.3	25.6	1077.9
	% Fixture	25.0	0.6	25.6
Street Side	Lumens	3103.4	24.1	3127.4
	% Fixture	73.8	0.6	74.4
Total	Lumens	4155.7	49.6	4205.3
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.1
10°-20°	39.0	0.9
20°-30°	144.2	3.4
30°-40°	296.6	7.1
40°-50°	492.1	11.7
50°-60°	858.0	20.4
60°-70°	1264.0	30.1
70°-80°	922.5	21.9
80°-90°	136.1	3.2
90°-100°	25.4	0.6
100°-110°	11.6	0.3
110°-120°	5.5	0.1
120°-130°	3.8	0.1
130°-140°	2.2	0.1
140°-150°	1.0	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4155.7	98.8
0°-180°	4205.3	100.0

Coefficient of Utilization



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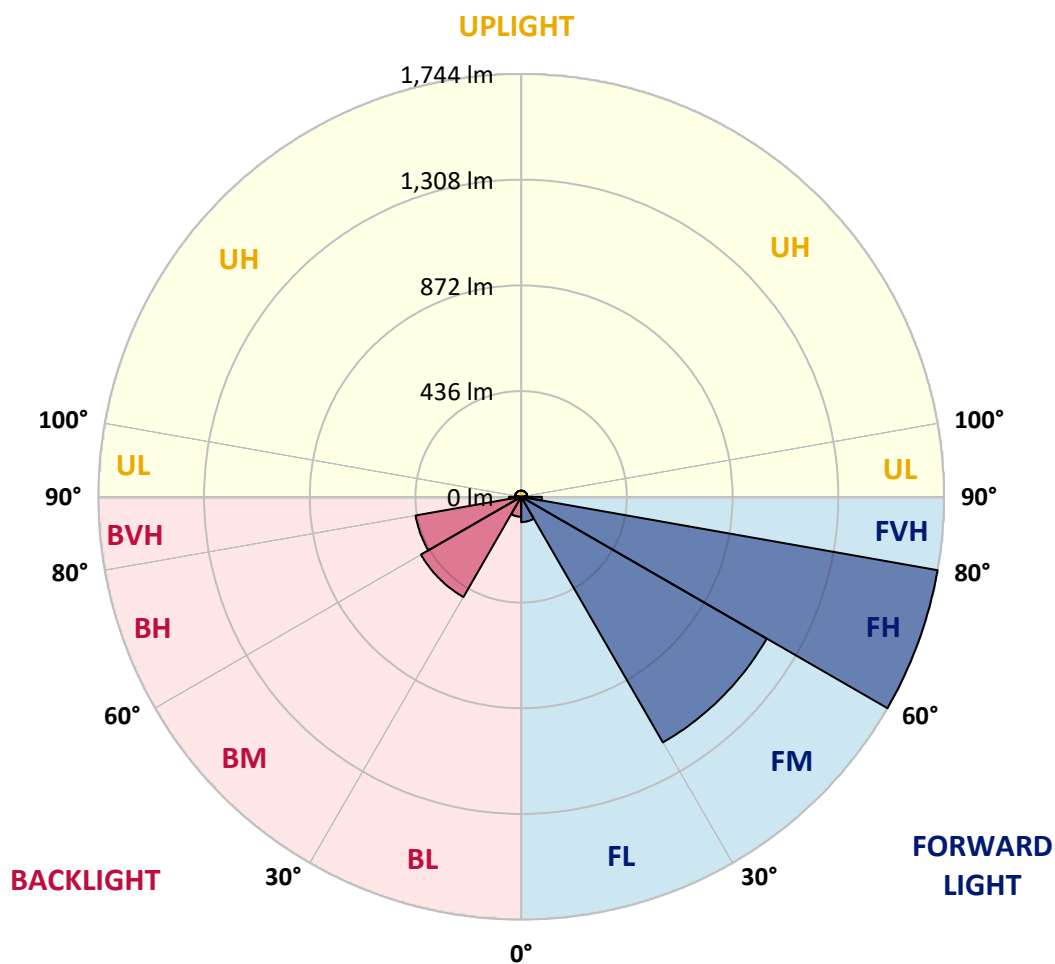
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	104.1	2.5			
FM	(30°-60°)	1169.6	27.8			
FH	(60°-80°)	1744.1	41.5			G1/1800
FVH	(80°-90°)	85.6	2.0			G1/100
BL	(0°-30°)	82.3	2.0	B0/110		
BM	(30°-60°)	477.2	11.3	B1/1000		
BH	(60°-80°)	442.4	10.5	B1/500		G1/500
BVH	(80°-90°)	50.5	1.2			G1/100
UL	(90°-100°)	25.4	0.6		U2/50	
UH	(100°-180°)	25.6	0.6		U2/50	

BUG Rating: B1-U2-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
2.5°	24.9	22.2	22.2	21.2	19.1	17.1	13.4	11.4	9.8	9.8	9.3
5°	47.6	50.2	57.9	53.3	44.0	57.4	25.9	17.1	10.8	9.3	9.3
7.5°	75.5	79.7	61.1	54.3	54.3	57.9	47.1	28.4	14.5	10.8	10.3
10°	158.3	149.6	103.9	105.6	89.5	62.6	43.0	37.7	22.2	17.6	16.1
12.5°	153.6	151.6	154.7	135.0	136.1	98.8	54.8	88.0	79.7	76.0	83.8
15°	198.1	196.1	157.2	160.4	145.4	151.1	127.3	126.7	122.7	102.9	98.8
17.5°	275.2	273.1	307.8	204.9	145.9	188.8	164.0	141.3	146.4	154.7	160.9
20°	274.7	271.6	286.1	245.7	248.8	195.1	174.8	257.1	234.9	235.9	222.5
22.5°	405.6	387.0	339.9	256.6	280.4	228.1	259.2	254.0	236.9	250.9	246.7
25°	393.6	400.9	384.9	379.7	285.6	326.9	285.0	293.3	362.1	380.7	381.3
27.5°	456.7	442.8	430.5	390.1	383.8	318.1	293.3	390.6	379.2	396.3	395.8
30°	544.7	540.1	536.9	433.5	415.4	350.8	395.3	398.8	460.4	538.0	554.0
32.5°	629.6	607.3	557.2	501.8	417.0	414.4	392.6	495.6	528.1	564.9	570.6
35°	764.0	763.5	678.7	536.4	466.7	440.3	508.5	533.9	533.4	588.7	622.4
37.5°	878.9	884.6	795.7	647.7	482.6	444.9	530.8	575.8	577.9	652.8	640.0
40°	1053.7	1038.8	959.1	773.4	551.5	474.3	582.0	588.7	631.2	681.3	699.9
42.5°	1177.9	1172.2	1146.4	920.3	631.2	528.7	642.5	613.6	668.4	759.4	779.1
45°	1255.6	1227.6	1252.9	1028.0	758.9	645.1	655.9	694.8	753.2	849.5	904.8
47.5°	1333.6	1354.9	1295.4	1109.1	873.7	698.9	721.7	844.2	900.6	987.0	1022.2
50°	1469.2	1446.5	1425.7	1231.2	1050.7	784.8	902.8	886.2	1044.4	1220.9	1227.1
52.5°	1551.9	1551.9	1518.4	1337.8	1172.8	911.6	963.2	1022.2	1258.1	1418.0	1475.9
55°	1669.4	1693.7	1687.5	1463.5	1316.5	1083.8	1121.6	1245.7	1453.7	1659.0	1802.3
57.5°	1752.7	1786.3	1859.2	1598.0	1456.3	1154.1	1352.8	1491.0	1716.5	1966.3	2139.6
60°	1876.3	1876.8	1951.9	1717.0	1632.6	1288.1	1442.3	1718.6	1860.7	2261.7	2353.3
62.5°	1888.8	1910.0	2067.2	1902.2	1808.6	1427.8	1735.1	1836.0	2023.2	2558.7	2638.8
65°	1738.7	1795.6	2058.9	1989.1	1969.4	1556.6	1821.0	2068.2	2155.2	2840.1	2817.3
66°	1681.3	1729.4	1990.7	2008.3	1995.8	1633.7	1871.2	2128.8	2201.2	2888.7	2848.9
67.5°	1661.1	1696.3	1908.9	2028.9	2085.3	1773.4	1993.7	2158.2	2285.5	2853.5	2837.5
70°	1520.9	1564.9	1764.6	2165.5	2276.2	2029.4	2151.6	2229.6	2345.0	2679.2	2609.9
72.5°	1159.8	1204.8	1352.2	1786.8	2292.2	2408.1	2396.3	2319.6	2151.6	2128.8	2017.6
75°	575.3	623.4	727.3	1041.4	1783.7	2365.7	2382.2	2091.5	1738.7	1373.0	1287.6
77.5°	297.5	335.2	280.9	398.8	917.2	1678.2	1685.9	1379.1	1007.7	641.5	599.0
80°	202.7	211.0	191.4	196.6	377.7	857.7	799.7	734.1	405.6	294.4	307.3
82.5°	148.9	137.6	132.0	143.3	203.9	268.0	287.7	317.6	216.8	149.6	157.7
85°	70.4	77.6	76.0	87.5	124.2	91.6	140.8	190.9	144.3	96.3	94.6
87.5°	44.0	43.5	46.5	53.8	75.0	60.6	77.1	94.6	87.0	60.0	59.0
90°	28.9	25.9	24.3	28.9	41.9	30.0	41.4	53.8	49.1	32.6	30.5
92.5°	19.6	19.6	21.2	24.3	36.2	32.1	29.5	30.5	30.5	25.4	24.3
95°	14.5	15.5	17.6	18.1	21.7	18.6	23.8	26.4	26.9	20.7	20.2
97.5°	12.4	13.4	14.5	15.0	18.1	15.0	19.6	23.3	22.8	16.6	17.1
100°	11.4	12.4	12.4	12.9	14.5	11.4	16.1	21.7	20.7	14.5	14.0
102.5°	10.8	10.8	10.3	10.3	11.4	8.8	13.4	19.1	15.5	11.9	10.8
105°	10.3	10.3	8.8	8.3	8.8	7.3	10.8	14.5	10.8	9.8	9.8
107.5°	9.8	9.3	7.8	6.8	7.3	5.7	8.8	9.3	7.8	8.8	9.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
110°	8.8	8.8	6.8	5.7	5.7	4.7	6.2	6.8	6.8	8.8	9.3
112.5°	8.3	7.8	5.7	4.7	4.7	4.1	4.7	5.2	5.7	8.3	8.8
115°	7.8	7.3	5.2	4.1	3.6	3.1	3.6	4.1	5.2	8.3	8.3
117.5°	7.3	6.8	4.7	3.6	3.1	2.6	3.1	3.6	5.2	8.3	8.3
120°	7.3	6.8	4.7	3.1	2.6	2.6	2.6	3.1	5.7	8.3	8.8
122.5°	6.8	6.8	4.7	3.1	2.6	2.0	2.0	3.1	5.2	7.8	7.8
125°	6.8	6.8	4.1	2.6	2.0	2.0	2.0	2.6	5.2	7.3	7.8
127.5°	6.2	6.2	4.1	2.6	2.0	1.5	1.5	2.6	4.7	7.3	7.3
130°	6.2	6.2	4.1	2.0	1.5	1.5	1.5	2.0	4.7	6.8	6.8
132.5°	5.2	5.2	3.6	2.0	1.5	1.0	1.5	2.0	4.1	5.7	6.2
135°	5.2	5.2	3.6	2.0	1.5	1.0	1.0	2.0	3.6	5.2	5.2
137.5°	4.7	4.7	3.1	2.0	1.5	1.0	1.0	1.5	3.1	4.7	4.7
140°	4.1	4.1	3.6	2.0	1.5	1.0	1.0	1.0	2.6	3.6	3.6
142.5°	4.1	4.1	3.1	2.0	1.0	0.5	0.5	1.0	2.0	2.6	2.6
145°	3.6	3.6	3.1	2.0	1.0	0.5	0.5	1.0	1.5	2.0	2.0
147.5°	3.6	3.6	3.1	1.5	0.5	0.5	0.5	1.0	1.5	2.0	2.0
150°	3.1	3.1	2.0	1.0	0.0	0.0	0.5	0.5	1.0	1.5	1.5
152.5°	2.0	2.0	1.5	0.5	0.0	0.0	0.0	0.5	1.0	1.0	1.0
155°	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
157.5°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
2.5°	9.3	9.3	9.3	9.3	9.3	9.3	8.8	8.8	8.8	8.8	8.8
5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	9.3	9.8	9.8	9.8
7.5°	9.8	9.8	9.3	8.8	9.3	10.3	15.5	35.7	52.3	64.1	63.6
10°	16.1	16.1	15.0	12.9	16.1	35.2	69.4	69.9	57.9	53.3	55.3
12.5°	84.8	75.5	64.1	52.8	51.8	62.6	59.0	82.2	92.1	98.8	97.8
15°	97.3	102.9	94.1	105.6	108.1	64.1	100.4	134.5	144.8	148.9	153.6
17.5°	160.4	177.5	126.7	120.0	120.5	128.3	135.5	142.3	145.4	143.8	144.3
20°	241.6	230.2	247.2	211.0	161.4	171.8	157.2	155.2	204.9	248.8	243.2
22.5°	246.7	266.4	243.7	223.0	246.7	174.8	216.8	230.2	236.9	242.6	249.9
25°	399.4	390.1	341.5	256.0	243.7	233.3	235.4	240.6	253.5	273.1	285.0
27.5°	424.2	422.2	377.7	345.0	259.7	291.7	241.6	290.7	314.0	334.7	338.8
30°	570.6	576.3	434.5	331.6	301.1	249.9	280.4	299.5	317.6	346.6	347.1
32.5°	606.3	618.2	480.6	366.8	315.6	258.7	281.9	296.5	365.2	392.1	393.1
35°	615.6	646.1	495.6	353.8	304.7	257.6	260.2	309.9	344.0	398.8	418.5
37.5°	713.4	691.1	526.6	358.5	285.0	247.8	280.9	297.5	351.3	386.5	393.1
40°	754.7	742.4	546.8	367.9	281.4	275.7	260.2	277.3	302.6	328.0	328.0
42.5°	831.9	783.2	558.2	361.1	273.6	295.9	237.4	256.6	280.4	265.4	271.6
45°	934.3	869.1	597.0	325.4	259.2	251.4	228.1	257.6	242.6	242.6	239.5
47.5°	1066.7	977.7	584.0	313.0	291.7	237.9	301.1	242.1	223.5	231.8	232.3
50°	1276.2	1170.7	623.9	304.7	276.8	233.3	257.6	233.8	233.8	239.5	237.4
52.5°	1539.0	1331.1	641.0	304.2	261.8	271.6	255.5	279.9	242.1	262.3	259.7
55°	1823.5	1572.7	658.6	300.0	259.2	245.2	312.5	268.0	251.4	288.2	289.2
57.5°	2184.1	1852.6	731.0	291.7	260.2	245.7	294.9	300.0	306.3	330.6	334.2
60°	2408.6	2007.7	666.9	307.3	257.6	280.4	343.0	335.2	316.1	406.1	419.5
62.5°	2579.9	2125.2	549.4	320.2	304.7	282.4	354.4	391.1	373.5	409.7	420.0
65°	2610.9	2114.8	420.0	320.2	300.5	329.0	425.2	390.1	332.7	336.2	332.2
66°	2608.8	2083.2	387.0	322.8	304.7	343.0	417.5	394.8	321.8	325.4	317.6
67.5°	2523.5	1983.4	336.2	319.2	333.7	352.3	410.2	368.4	309.3	310.4	302.6
70°	2194.9	1673.0	286.1	328.0	346.1	353.3	448.6	343.0	284.0	276.8	275.2
72.5°	1614.5	1186.7	268.0	326.4	351.3	342.5	378.2	281.9	245.2	230.7	229.1
75°	907.9	606.3	266.9	313.0	310.9	293.8	286.1	217.3	202.7	185.8	182.6
77.5°	418.5	292.3	226.1	252.0	234.9	232.3	213.2	181.1	172.8	161.4	156.7
80°	242.1	206.4	160.9	167.0	168.7	164.0	172.3	163.0	154.2	145.9	138.1
82.5°	141.3	130.8	117.4	110.2	110.2	117.9	141.8	135.5	128.8	121.5	104.5
85°	88.5	84.8	80.2	77.1	77.1	70.9	101.9	113.3	107.1	91.6	81.7
87.5°	57.9	60.6	53.8	54.3	52.8	47.1	68.8	76.0	65.2	52.3	43.5
90°	26.4	28.9	31.5	31.0	33.7	25.9	37.7	38.8	34.7	23.8	17.1
92.5°	20.2	23.8	26.4	26.4	28.9	17.6	27.4	30.5	28.4	22.2	16.1
95°	17.1	21.2	25.4	24.9	24.9	14.0	25.4	28.4	26.9	19.1	14.0
97.5°	14.0	17.1	20.7	20.7	22.8	11.9	23.3	27.4	25.9	19.1	13.4
100°	12.9	15.5	18.1	18.6	20.7	9.3	21.2	25.9	23.3	16.1	12.9
102.5°	11.9	12.9	15.0	15.0	15.5	8.3	17.1	21.2	18.6	12.4	12.4
105°	10.8	10.8	10.8	9.8	9.8	6.8	10.3	14.5	11.4	9.8	10.8
107.5°	10.3	9.8	8.3	7.8	7.3	5.7	7.3	8.8	6.8	8.8	9.8



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CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	9.8	9.8	7.8	6.8	6.2	5.2	6.2	5.7	5.7	8.8	9.3
112.5°	9.8	9.3	6.8	5.7	5.2	4.7	5.2	4.1	5.2	8.8	9.3
115°	9.3	9.3	6.2	5.2	5.2	4.1	4.1	3.6	4.7	8.3	9.3
117.5°	9.3	9.3	6.2	4.7	4.1	3.6	3.6	3.6	4.7	8.3	9.3
120°	9.3	8.8	6.2	4.7	3.6	3.1	3.1	3.1	4.7	8.3	8.8
122.5°	8.8	8.3	5.7	4.1	3.6	3.1	2.6	3.1	4.7	7.8	8.3
125°	8.3	8.3	5.7	3.6	3.1	2.6	2.0	2.6	4.7	7.8	8.3
127.5°	8.3	7.8	5.2	3.1	2.6	2.6	2.0	2.6	4.7	7.3	7.8
130°	7.3	7.3	4.7	3.1	2.0	2.0	1.5	2.0	4.7	7.3	7.3
132.5°	6.8	6.2	4.1	2.6	2.0	1.5	1.5	1.5	4.1	6.2	6.8
135°	5.7	5.2	3.6	2.0	1.5	1.5	1.0	1.5	3.6	5.7	5.7
137.5°	4.7	4.7	3.6	2.0	1.5	1.0	1.0	1.5	3.6	5.2	5.7
140°	4.1	3.6	2.6	1.5	1.0	1.0	1.0	1.5	3.1	4.1	4.7
142.5°	3.1	3.1	2.0	1.5	1.0	1.0	0.5	1.0	2.6	3.6	3.6
145°	2.6	2.6	2.0	1.0	1.0	0.5	0.5	0.5	2.0	2.6	3.1
147.5°	2.0	2.0	1.5	1.0	0.5	0.5	0.0	0.5	1.5	2.0	2.0
150°	1.5	1.5	1.5	1.0	0.5	0.0	0.0	0.0	0.5	1.0	1.0
152.5°	1.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.5	0.5	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)