

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: P240536

Luminaire Tested: **UTLD-AF24-60-D-U-SL3-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-32)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-60-D-U-SL3-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5896.3 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 64
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

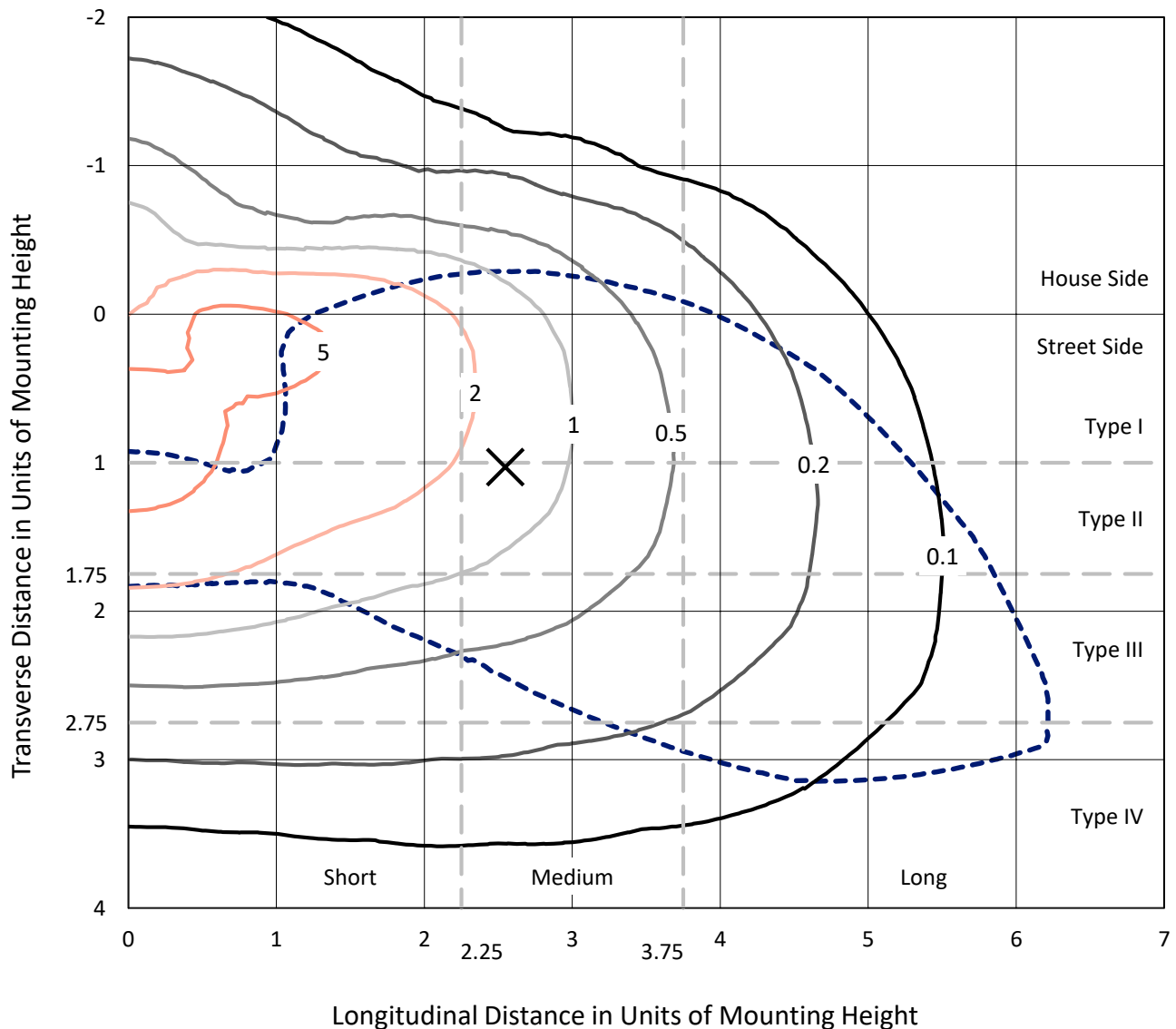


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

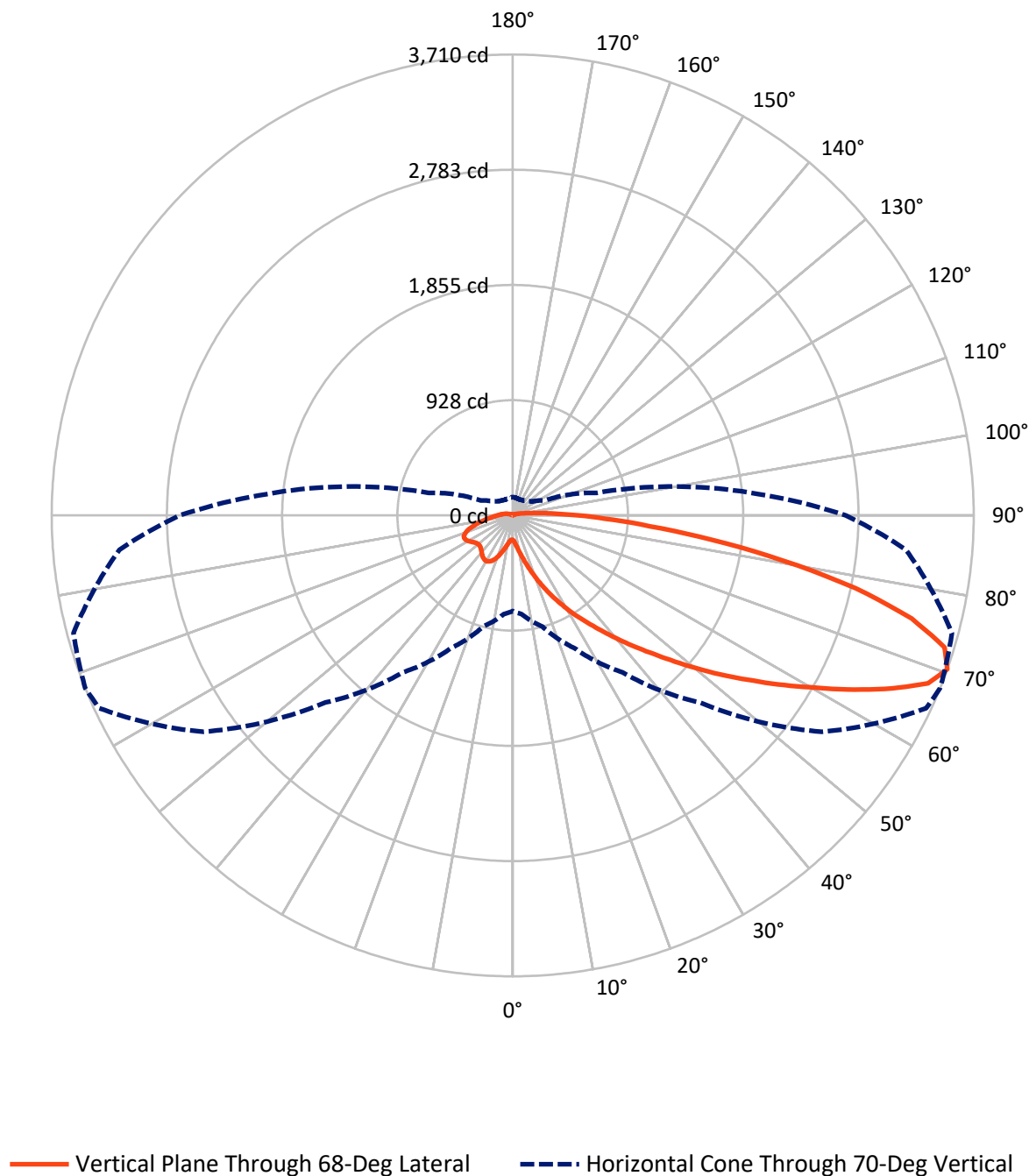


Based on 10 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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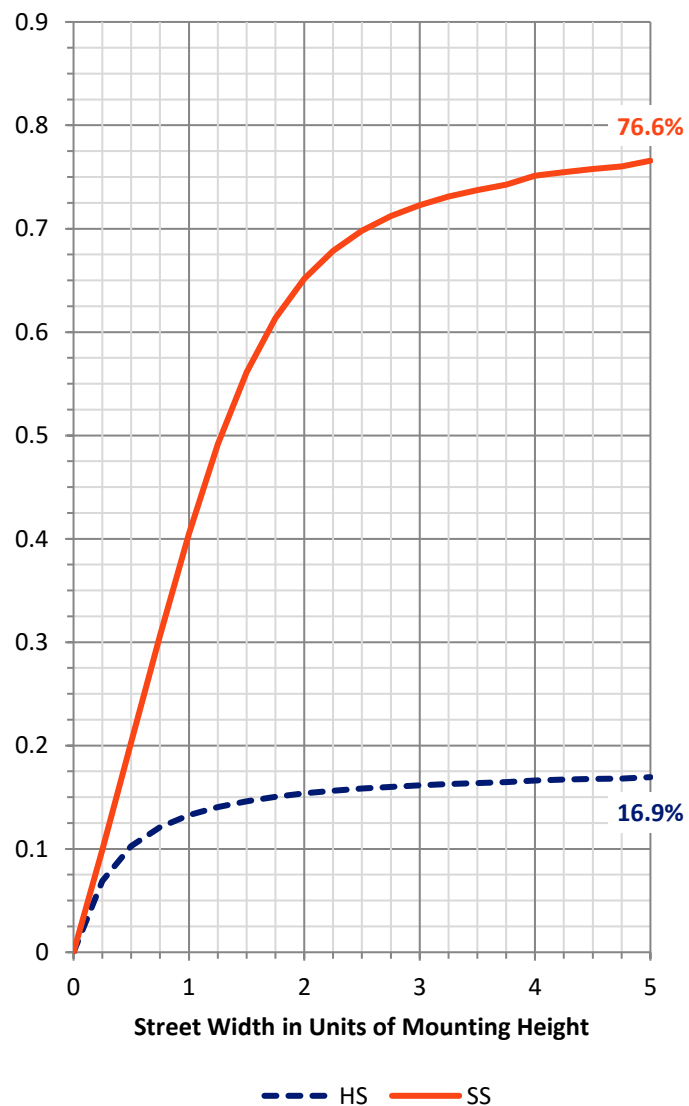
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1042.2	95.7	1138.0
	% Fixture	17.7	1.6	19.3
Street Side	Lumens	4627.2	131.1	4758.3
	% Fixture	78.5	2.2	80.7
Total	Lumens	5669.4	226.9	5896.3
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.6	0.4
10°-20°	93.6	1.6
20°-30°	236.7	4.0
30°-40°	458.7	7.8
40°-50°	773.4	13.1
50°-60°	1156.4	19.6
60°-70°	1402.2	23.8
70°-80°	1094.0	18.6
80°-90°	432.9	7.3
90°-100°	132.6	2.2
100°-110°	52.1	0.9
110°-120°	23.1	0.4
120°-130°	11.4	0.2
130°-140°	5.6	0.1
140°-150°	1.8	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5669.4	96.2
0°-180°	5896.3	100.0

Coefficient of Utilization



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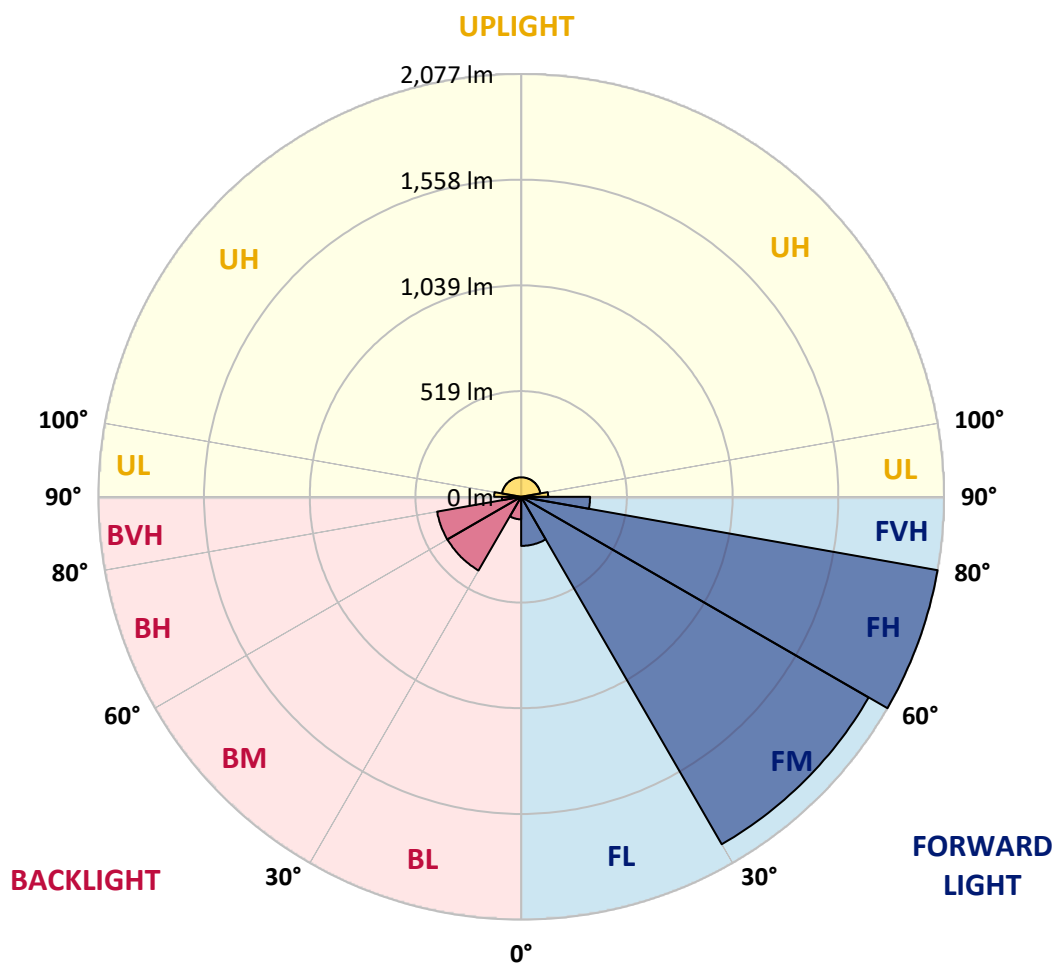
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	241.1	4.1			
FM	(30°-60°)	1970.8	33.4			
FH	(60°-80°)	2077.0	35.2			G2/5000
FVH	(80°-90°)	338.3	5.7			G3/500
BL	(0°-30°)	110.8	1.9	B1/500		
BM	(30°-60°)	417.8	7.1	B1/1000		
BH	(60°-80°)	419.1	7.1	B1/500		G1/500
BVH	(80°-90°)	94.5	1.6			G1/100
UL	(90°-100°)	132.6	2.2		U3/500	
UH	(100°-180°)	95.7	1.6		U3/500	

BUG Rating: B1-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1
2.5°	220.4	221.3	221.3	218.9	218.2	215.8	212.0	210.4	208.9	207.4	204.3
5°	249.8	249.8	248.3	245.9	242.8	240.5	236.7	232.0	231.3	225.9	220.4
7.5°	282.9	283.7	284.5	280.6	276.0	272.1	267.5	261.4	259.8	254.4	244.4
10°	326.8	327.7	326.1	322.2	316.1	311.5	306.1	299.8	297.6	293.0	279.1
12.5°	380.0	379.3	374.6	369.3	362.3	356.9	350.0	345.3	343.8	339.2	324.6
15°	436.3	439.4	434.0	421.7	413.2	404.7	401.6	401.6	403.1	397.8	383.9
17.5°	508.8	511.1	501.9	484.9	471.0	461.8	458.7	464.8	467.2	469.4	457.2
20°	592.8	593.6	578.9	555.1	530.4	518.8	519.6	534.2	539.6	548.1	533.5
22.5°	695.3	689.2	668.4	631.4	595.9	577.4	584.3	613.7	618.3	636.0	628.3
25°	802.5	801.7	767.0	717.7	666.0	642.1	653.7	690.0	703.1	730.0	720.1
27.5°	925.9	922.7	878.0	817.1	747.0	711.6	721.6	773.2	788.6	834.1	823.3
30°	1056.9	1057.6	1005.3	920.5	833.3	784.0	790.1	861.8	881.9	934.4	931.2
32.5°	1213.3	1204.1	1145.5	1034.5	927.4	860.3	868.8	952.1	979.8	1042.3	1033.0
35°	1370.7	1359.1	1281.2	1159.4	1025.3	945.9	949.7	1048.4	1077.7	1158.6	1140.9
37.5°	1515.6	1509.4	1431.5	1291.3	1134.8	1040.6	1045.4	1151.7	1188.7	1278.9	1257.3
40°	1671.3	1671.3	1591.9	1439.3	1256.6	1143.2	1150.2	1266.5	1311.3	1409.9	1373.7
42.5°	1836.3	1830.9	1746.8	1574.1	1377.6	1253.4	1267.3	1396.1	1446.1	1551.0	1514.0
45°	1998.9	1987.4	1900.2	1720.6	1498.6	1377.6	1398.4	1537.9	1590.4	1723.7	1672.0
47.5°	2139.2	2126.9	2041.3	1852.5	1625.8	1506.3	1535.7	1702.9	1758.4	1917.2	1838.5
50°	2239.4	2235.6	2152.3	1957.3	1739.1	1638.9	1700.6	1878.6	1944.9	2105.3	2031.3
52.5°	2298.1	2291.1	2224.8	2052.1	1852.5	1776.1	1870.2	2069.8	2140.0	2312.7	2226.4
55°	2284.9	2280.3	2233.2	2102.2	1941.0	1907.9	2058.3	2282.6	2348.1	2534.7	2432.2
57.5°	2181.6	2187.8	2173.9	2105.3	2006.6	2044.4	2251.0	2506.9	2576.3	2758.2	2648.7
60°	1997.4	1995.1	2034.3	2045.9	2032.8	2162.3	2483.8	2762.9	2816.1	2999.5	2860.0
62.5°	1725.2	1719.1	1804.7	1914.9	2013.6	2261.7	2693.4	3035.7	3088.9	3236.9	3055.0
65°	1391.4	1419.2	1526.3	1708.3	1917.9	2299.6	2897.0	3314.1	3357.9	3436.6	3208.4
67.5°	1054.6	1081.6	1220.3	1450.9	1758.4	2255.6	3026.5	3563.8	3606.2	3627.0	3275.5
70°	770.1	796.4	927.4	1180.2	1541.8	2128.5	3036.5	3671.7	3710.2	3659.4	3176.8
72.5°	548.1	562.0	674.5	914.3	1295.1	1905.7	2910.1	3602.3	3633.9	3492.9	2916.2
75°	387.8	393.9	491.0	695.3	1054.6	1653.5	2609.4	3291.7	3316.3	3139.0	2479.9
77.5°	264.4	278.2	355.4	530.4	845.7	1357.6	2211.6	2822.2	2822.2	2597.1	1961.9
80°	187.3	198.9	255.1	396.2	662.2	1087.7	1786.9	2242.5	2207.0	1951.9	1413.8
82.5°	134.9	144.1	188.8	302.2	514.1	859.6	1356.0	1660.5	1612.0	1362.2	934.4
85°	97.9	107.1	143.4	222.0	393.9	666.9	1016.0	1153.3	1105.4	902.8	606.7
87.5°	71.7	77.8	107.1	167.3	298.3	504.9	745.4	783.2	740.8	583.6	389.3
90°	50.8	56.3	81.7	126.4	223.5	379.3	523.4	514.1	467.9	366.9	257.5
92.5°	37.0	40.8	60.9	96.4	166.5	278.2	360.0	332.3	306.1	235.9	178.8
95°	27.7	30.8	47.8	74.8	122.5	195.8	242.8	218.2	198.1	161.1	131.9
97.5°	22.4	24.7	39.3	60.1	94.8	142.6	168.1	144.1	134.9	116.4	101.8
100°	19.2	20.8	33.1	50.1	74.8	107.1	118.8	101.0	95.5	87.9	79.4
102.5°	17.7	18.5	29.3	43.2	60.9	80.2	85.5	75.6	71.7	67.1	62.4
105°	16.2	17.0	26.2	37.7	51.7	62.4	65.6	57.8	55.5	50.8	47.8
107.5°	15.4	15.4	23.1	33.1	44.0	51.7	51.7	45.5	43.2	38.6	37.0
110°	14.6	14.6	20.8	30.1	37.7	44.0	42.4	36.2	34.0	29.3	28.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	13.9	13.9	19.2	26.2	33.1	37.0	35.5	29.3	27.0	22.4	22.4
115°	13.1	13.1	17.0	23.1	29.3	31.6	30.1	23.9	22.4	17.7	18.5
117.5°	13.1	13.1	16.2	20.8	25.5	27.7	25.5	19.2	17.7	14.6	16.2
120°	12.4	12.4	14.6	18.5	22.4	23.9	21.6	16.2	14.6	12.4	13.9
122.5°	12.4	12.4	13.9	16.2	20.0	20.8	18.5	13.9	12.4	10.8	12.4
125°	11.6	11.6	13.1	14.6	17.0	17.7	15.4	11.6	10.8	10.0	10.8
127.5°	11.6	11.6	12.4	13.1	15.4	15.4	13.1	9.2	9.2	8.5	10.0
130°	10.8	11.6	11.6	12.4	13.1	13.1	10.8	7.7	7.7	7.7	9.2
132.5°	10.8	10.8	10.8	10.8	11.6	10.8	8.5	7.0	7.0	7.0	8.5
135°	10.0	10.0	10.0	10.0	9.2	8.5	7.0	5.4	5.4	6.1	7.7
137.5°	10.0	10.0	9.2	8.5	8.5	7.0	5.4	4.6	4.6	6.1	7.0
140°	9.2	9.2	8.5	7.7	6.1	5.4	3.9	3.9	3.9	4.6	5.4
142.5°	7.7	7.7	7.7	6.1	4.6	3.1	2.4	2.4	3.1	3.9	4.6
145°	7.0	7.0	6.1	5.4	3.1	1.5	0.8	1.5	2.4	3.1	3.9
147.5°	5.4	5.4	4.6	3.9	1.5	0.8	0.0	0.8	1.5	1.5	2.4
150°	3.9	3.9	3.9	2.4	0.8	0.0	0.0	0.8	0.8	0.8	1.5
152.5°	3.1	3.1	2.4	1.5	0.0	0.0	0.0	0.0	0.8	0.8	0.8
155°	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8
157.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.8	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°	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1
2.5°	201.9	201.2	197.3	194.3	190.4	187.3	184.2	181.9	181.2	179.6	180.3
5°	215.8	212.8	205.1	198.1	190.4	183.5	177.3	172.7	168.8	167.3	166.5
7.5°	239.8	235.1	221.3	208.9	196.6	184.2	174.2	166.5	161.9	158.8	158.8
10°	274.5	264.4	246.6	225.9	205.1	187.3	173.5	162.6	155.7	153.4	153.4
12.5°	316.8	306.1	278.2	246.6	217.4	192.7	174.2	162.6	155.7	152.6	151.9
15°	373.1	356.9	316.1	271.4	228.9	197.3	175.0	163.5	158.8	157.2	157.2
17.5°	439.4	419.4	360.0	298.3	242.0	199.7	177.3	168.1	165.7	165.7	165.7
20°	518.0	488.8	409.4	322.2	251.3	201.9	178.8	172.0	172.0	173.5	174.2
22.5°	602.1	565.1	457.2	344.6	254.4	203.5	178.1	173.5	177.3	181.2	181.9
25°	691.5	639.9	500.3	358.4	255.9	199.7	175.7	174.2	181.9	187.3	188.8
27.5°	786.3	716.2	537.4	363.9	251.3	192.7	172.0	172.7	184.2	191.9	193.5
30°	873.4	787.9	566.6	362.3	241.3	184.2	167.3	170.3	184.2	195.1	197.3
32.5°	963.6	858.8	584.3	355.4	228.9	175.0	161.9	168.1	183.5	195.8	198.1
35°	1053.8	921.2	592.8	341.5	215.1	166.5	156.5	164.2	181.2	195.1	196.6
37.5°	1144.0	982.9	595.2	323.8	202.7	159.6	152.6	161.9	177.3	193.5	195.8
40°	1241.1	1043.8	590.4	306.1	191.2	155.0	149.6	158.8	174.2	191.2	194.3
42.5°	1349.8	1108.6	585.1	288.3	183.5	151.9	147.2	155.7	169.6	188.8	192.7
45°	1470.8	1179.5	582.1	274.5	178.8	150.3	146.5	153.4	167.3	187.3	191.2
47.5°	1601.1	1268.9	585.1	265.1	176.6	151.1	146.5	151.9	164.2	184.2	188.8
50°	1759.9	1371.4	596.7	258.3	175.7	151.9	147.2	150.3	161.1	179.6	184.2
52.5°	1924.2	1476.2	615.2	256.7	176.6	153.4	148.0	149.6	156.5	173.5	177.3
55°	2094.5	1615.0	646.8	259.0	178.1	155.7	148.7	148.0	152.6	165.7	170.3
57.5°	2287.2	1759.2	686.1	264.4	180.3	157.2	149.6	146.5	148.0	158.8	162.6
60°	2478.4	1905.7	726.2	271.4	185.1	159.6	150.3	145.7	145.7	154.2	157.2
62.5°	2651.8	2034.3	759.3	280.6	188.8	161.1	150.3	144.1	143.4	150.3	153.4
65°	2770.6	2102.2	767.0	286.0	192.7	161.9	148.7	142.6	141.9	147.2	150.3
67.5°	2802.2	2091.4	751.6	288.3	195.1	161.9	148.7	141.1	141.9	146.5	148.7
70°	2678.8	1979.6	700.7	283.7	194.3	161.1	147.2	139.5	141.1	145.7	147.2
72.5°	2384.4	1748.3	622.1	272.1	190.4	158.0	144.1	137.2	139.5	145.0	146.5
75°	2001.2	1448.5	528.9	253.6	183.5	154.2	141.1	134.1	138.0	143.4	144.1
77.5°	1539.4	1110.1	432.5	229.8	174.2	148.7	136.5	129.5	134.9	141.1	140.3
80°	1093.1	809.5	341.5	205.1	161.9	141.1	130.3	124.1	130.3	136.5	134.9
82.5°	753.2	548.9	272.9	181.2	148.7	132.6	123.4	117.9	124.9	130.3	128.0
85°	493.4	370.8	215.1	158.8	136.5	124.1	115.6	110.3	117.1	121.8	118.8
87.5°	318.3	258.3	172.0	138.0	123.4	114.9	107.1	102.5	109.5	113.3	110.3
90°	221.3	188.1	141.9	119.5	111.0	104.9	98.7	94.0	100.2	103.3	101.8
92.5°	158.0	144.1	117.9	104.9	100.2	94.8	89.4	85.5	91.8	94.0	92.5
95°	123.4	114.9	100.2	92.5	90.2	86.3	80.9	77.1	81.7	83.3	82.4
97.5°	98.7	94.8	86.3	81.7	80.2	77.1	73.2	69.4	72.4	73.2	72.4
100°	79.4	77.8	74.0	71.7	70.9	68.6	64.8	61.7	63.2	62.4	62.4
102.5°	63.2	63.2	62.4	61.7	61.7	59.3	56.3	53.2	53.2	51.7	51.7
105°	50.1	51.7	51.7	52.4	53.2	51.7	48.6	44.7	44.0	41.6	41.6
107.5°	39.3	40.8	43.2	44.0	44.7	43.2	40.8	37.0	34.7	32.4	33.1
110°	30.8	32.4	35.5	37.0	37.7	37.0	34.0	30.8	27.0	25.5	26.2



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CATALOG NUMBER: UTLD-AF24-60-D-U-SL3-TL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	23.9	26.2	29.3	30.8	31.6	30.8	27.7	24.7	20.8	20.0	20.0
115°	20.0	21.6	24.7	26.2	26.2	25.5	23.1	19.2	16.2	15.4	16.2
117.5°	17.0	18.5	20.8	22.4	22.4	21.6	19.2	15.4	13.1	13.1	13.1
120°	14.6	16.2	17.7	19.2	19.2	18.5	16.2	12.4	10.8	10.8	10.8
122.5°	13.1	13.9	15.4	16.2	16.2	15.4	13.1	10.0	8.5	9.2	9.2
125°	11.6	12.4	13.9	14.6	13.9	13.1	10.8	7.7	7.0	7.7	7.7
127.5°	10.8	11.6	12.4	12.4	12.4	10.8	9.2	6.1	6.1	7.0	7.0
130°	10.0	10.0	10.8	10.8	10.0	9.2	7.0	4.6	4.6	6.1	6.1
132.5°	9.2	9.2	10.0	9.2	9.2	7.7	5.4	3.9	4.6	5.4	5.4
135°	7.7	7.7	8.5	8.5	7.0	6.1	3.9	3.1	3.1	3.9	4.6
137.5°	7.0	7.7	7.7	7.0	6.1	4.6	3.1	2.4	3.1	3.1	3.9
140°	6.1	6.1	6.1	5.4	4.6	3.1	1.5	1.5	2.4	2.4	2.4
142.5°	4.6	5.4	5.4	4.6	3.1	1.5	0.8	0.8	1.5	1.5	1.5
145°	3.9	3.9	3.9	3.1	2.4	1.5	0.8	0.8	0.8	0.8	0.8
147.5°	2.4	3.1	3.1	2.4	1.5	0.8	0.0	0.0	0.0	0.0	0.0
150°	1.5	1.5	2.4	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0
152.5°	0.8	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.8	1.5	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.8	0.8	0.8	0.8	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)