

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: P240590

Luminaire Tested: **UTLD-AF24-60-D-U-T2U-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240590
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-AF24-60-D-U-T2U-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 800mA 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: 6156.1 lumens
Efficiency: N/A
Efficacy: 96.2 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): 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

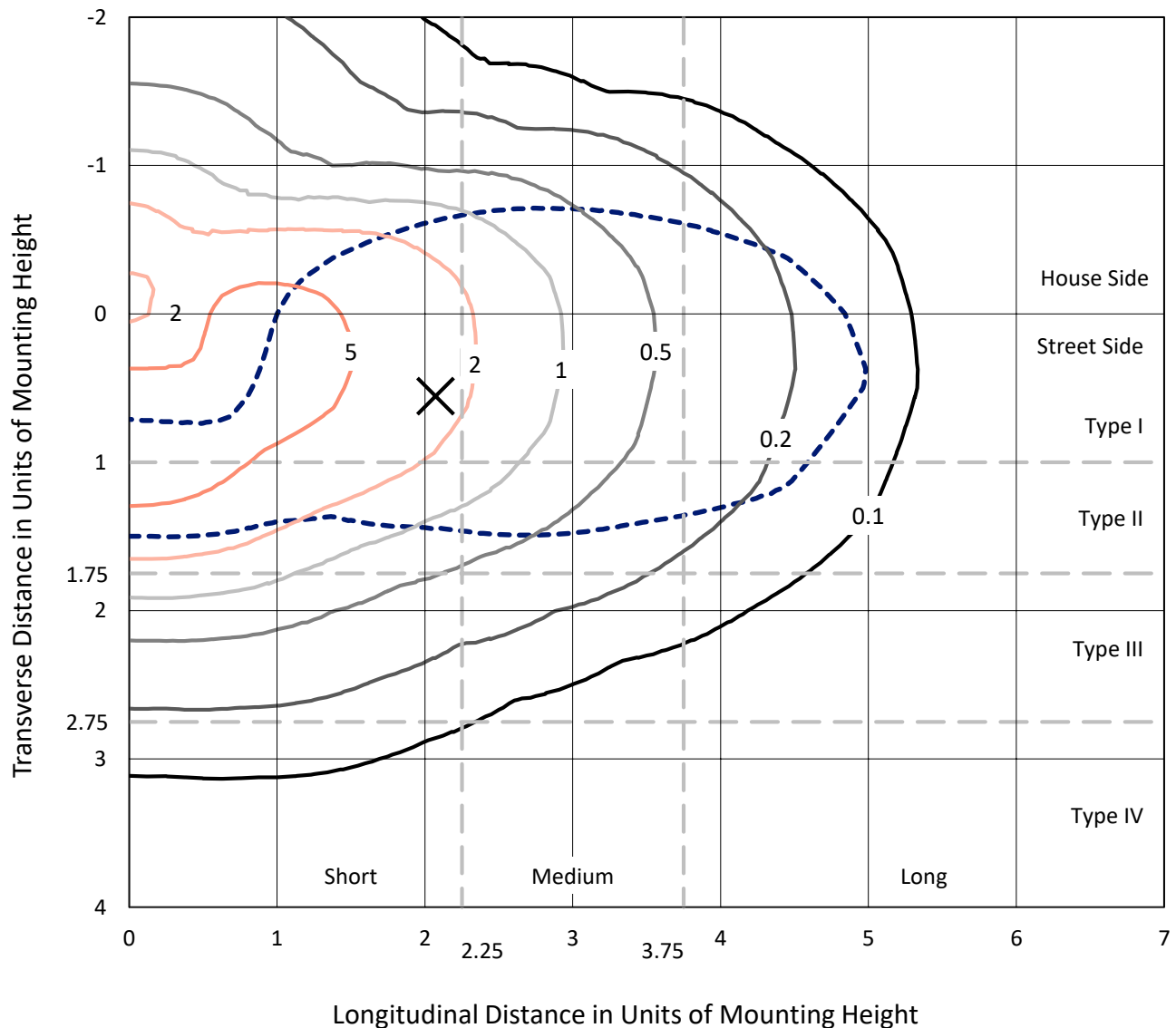


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

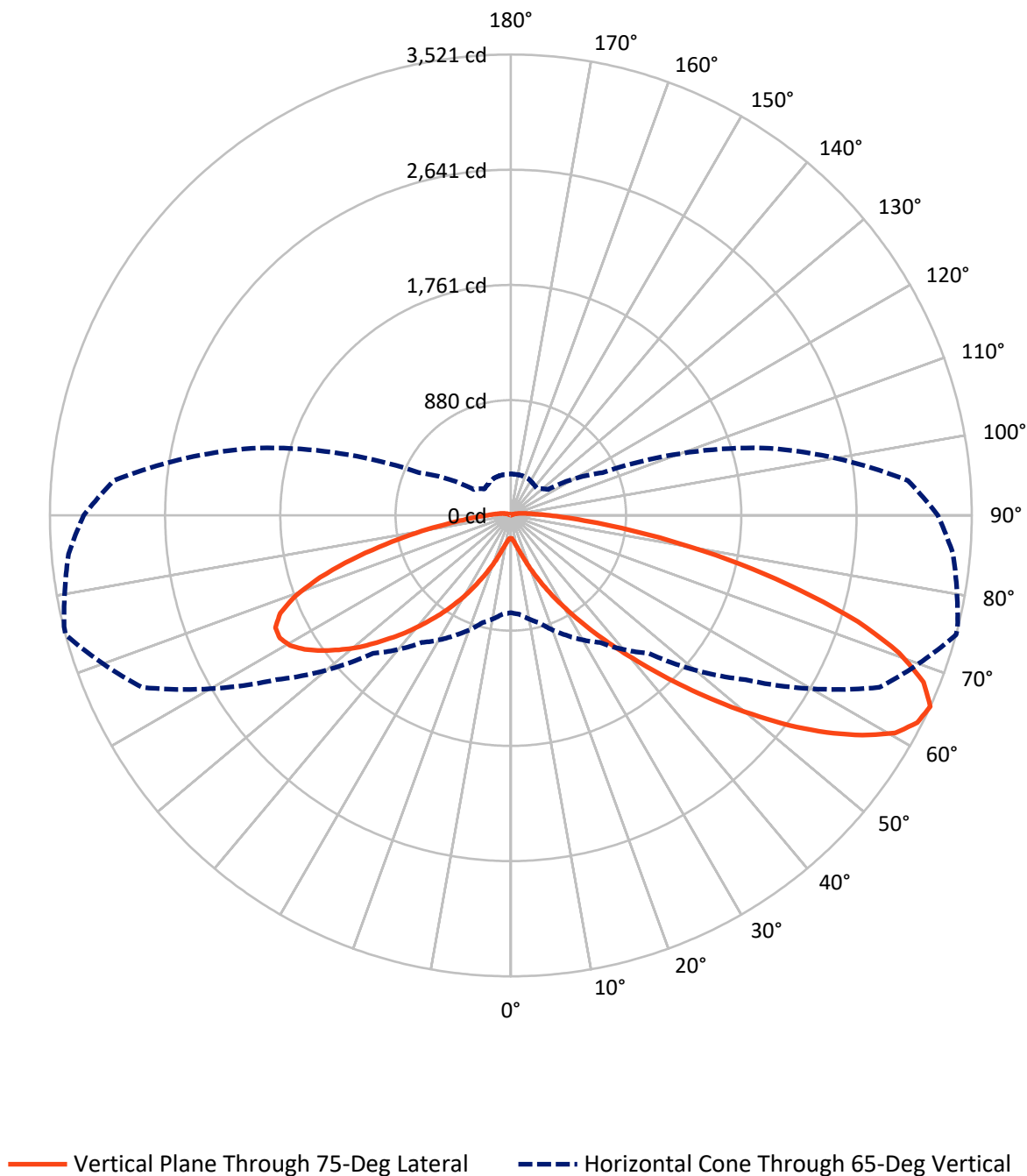


Based on 10 foot mounting height. Maximum calculated value = 9.7 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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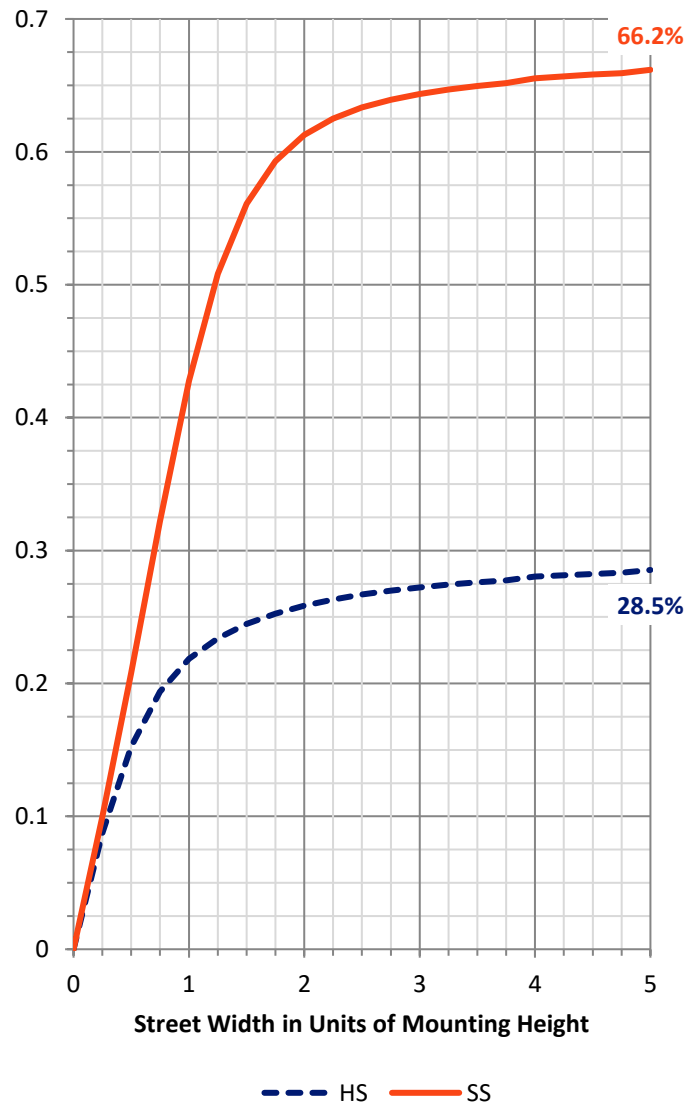
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1817.7	109.0	1926.7
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	4131.4	98.1	4229.5
	% Fixture	67.1	1.6	68.7
Total	Lumens	5949.1	207.1	6156.1
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.3	0.3
10°-20°	89.0	1.4
20°-30°	259.6	4.2
30°-40°	582.3	9.5
40°-50°	1036.2	16.8
50°-60°	1408.2	22.9
60°-70°	1367.5	22.2
70°-80°	861.9	14.0
80°-90°	325.1	5.3
90°-100°	110.7	1.8
100°-110°	50.1	0.8
110°-120°	24.1	0.4
120°-130°	12.7	0.2
130°-140°	6.6	0.1
140°-150°	2.4	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5949.1	96.6
0°-180°	6156.1	100.0

Coefficient of Utilization



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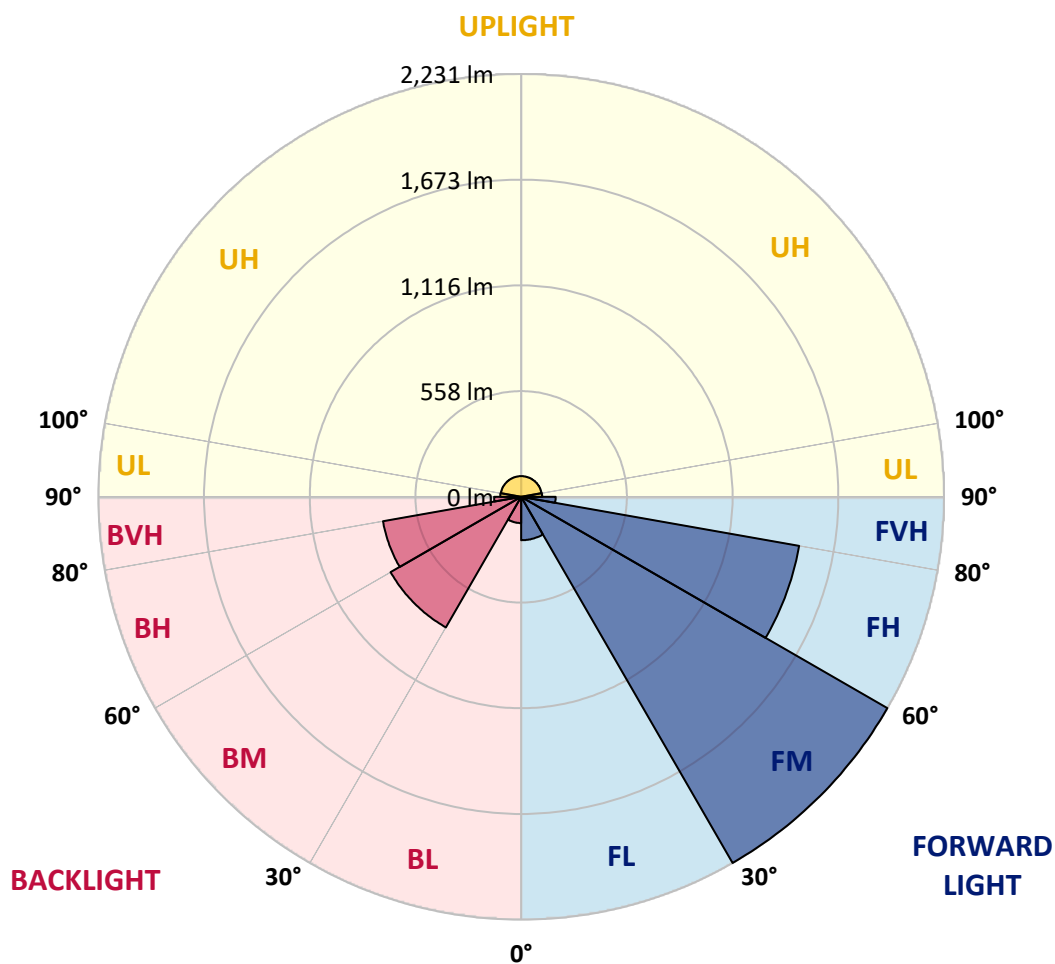
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	229.2	3.7			
FM	(30°-60°)	2231.0	36.2			
FH	(60°-80°)	1489.2	24.2			G1/1800
FVH	(80°-90°)	181.9	3.0			G2/225
BL	(0°-30°)	138.6	2.3	B1/500		
BM	(30°-60°)	795.7	12.9	B1/1000		
BH	(60°-80°)	740.3	12.0	B2/1000		G2/1000
BVH	(80°-90°)	143.1	2.3			G2/225
UL	(90°-100°)	110.7	1.8		U3/500	
UH	(100°-180°)	109.0	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°	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0
2.5°	190.5	189.7	189.7	189.7	188.1	186.6	184.2	182.7	180.4	179.6	178.9
5°	210.5	210.5	209.7	209.0	207.4	203.6	199.7	196.6	192.7	192.0	188.9
7.5°	242.1	241.3	240.6	236.7	234.4	228.9	222.8	218.2	211.2	211.2	206.6
10°	283.8	282.2	279.9	276.0	267.5	260.5	253.7	245.2	238.2	237.4	230.6
12.5°	333.1	333.1	330.0	322.2	311.5	301.5	289.9	280.6	271.4	270.6	264.4
15°	400.9	401.7	391.7	380.1	364.7	349.2	334.6	326.1	315.4	317.6	309.1
17.5°	485.0	483.4	475.0	451.8	426.4	406.3	389.3	380.1	371.6	372.4	366.2
20°	590.5	589.0	574.4	543.6	502.0	471.9	451.8	445.6	441.0	438.7	432.5
22.5°	720.9	713.2	683.8	643.7	593.6	550.4	528.9	519.7	518.1	518.8	512.7
25°	866.6	863.5	826.5	762.5	697.8	642.2	609.1	607.5	609.9	606.0	606.0
27.5°	1043.9	1035.4	992.3	903.6	811.1	744.8	706.2	702.4	713.2	710.1	705.4
30°	1251.3	1238.2	1179.7	1066.3	947.6	858.9	814.2	814.2	825.7	825.7	824.2
32.5°	1467.9	1465.7	1374.6	1242.1	1101.7	984.6	946.0	939.9	951.4	957.6	949.8
35°	1711.6	1693.9	1589.1	1438.7	1257.5	1128.7	1081.0	1089.4	1098.6	1099.5	1087.1
37.5°	1959.9	1942.2	1821.9	1636.0	1424.8	1286.1	1236.6	1242.9	1257.5	1257.5	1241.2
40°	2172.6	2153.4	2035.4	1841.9	1609.8	1461.0	1408.6	1426.3	1436.3	1440.2	1414.0
42.5°	2340.7	2326.8	2221.2	2023.8	1787.9	1636.8	1602.9	1632.2	1642.2	1649.9	1612.2
45°	2434.8	2423.3	2350.0	2171.9	1937.5	1812.6	1818.8	1854.2	1873.5	1865.0	1824.1
47.5°	2449.5	2440.1	2399.3	2263.6	2074.7	1981.5	2040.1	2093.3	2122.5	2123.3	2053.9
50°	2358.4	2362.3	2363.1	2285.2	2151.9	2118.6	2246.7	2366.2	2388.5	2376.2	2294.5
52.5°	2182.0	2179.6	2224.3	2224.3	2165.7	2203.5	2420.1	2633.7	2664.6	2661.4	2548.2
55°	1919.8	1922.1	2005.4	2070.9	2092.4	2221.2	2562.0	2875.8	2926.7	2922.1	2797.2
57.5°	1593.7	1616.0	1718.6	1844.2	1942.2	2145.6	2627.6	3084.0	3167.3	3168.0	3016.9
60°	1276.7	1299.9	1419.3	1580.6	1722.4	2000.0	2583.6	3191.9	3374.6	3366.1	3205.8
62.5°	975.3	999.2	1114.1	1297.6	1462.6	1767.1	2434.0	3214.2	3484.9	3479.5	3341.5
65°	742.5	757.9	850.4	1011.5	1185.0	1488.8	2188.1	3107.8	3521.1	3517.2	3391.6
67.5°	555.2	562.0	650.0	780.2	930.6	1204.3	1848.1	2851.9	3400.8	3404.7	3334.5
70°	427.1	431.8	495.7	609.1	720.9	941.4	1497.3	2482.6	3147.9	3158.0	3155.7
72.5°	339.2	346.2	397.1	479.6	560.5	713.2	1158.0	2008.5	2773.2	2794.1	2856.5
75°	279.9	287.6	326.1	387.1	445.6	542.8	841.9	1541.2	2279.9	2323.7	2462.5
77.5°	231.3	239.0	271.4	319.2	355.5	414.8	616.8	1139.6	1791.0	1809.5	1993.0
80°	189.7	196.6	225.9	262.9	289.1	323.9	449.5	800.3	1306.1	1329.2	1508.0
82.5°	151.1	157.3	184.2	214.3	235.9	259.8	333.1	548.2	909.8	926.7	1044.7
85°	116.4	122.5	145.7	172.0	190.5	209.7	255.2	381.7	602.1	622.2	708.5
87.5°	87.2	92.5	111.8	134.1	153.4	169.6	196.6	263.7	401.7	418.7	459.5
90°	64.0	67.8	84.8	101.8	119.5	137.3	154.2	192.7	267.5	274.5	303.0
92.5°	47.8	50.1	64.0	78.7	95.6	111.0	121.8	141.9	188.1	188.9	209.0
95°	35.5	37.7	49.3	61.7	76.3	90.9	100.2	110.3	138.0	140.3	152.6
97.5°	28.5	29.3	39.3	50.1	62.4	74.8	82.4	87.9	105.7	107.9	116.4
100°	23.9	24.7	33.1	42.5	53.2	64.0	69.4	71.7	83.3	85.6	91.8
102.5°	20.8	20.8	28.5	37.0	46.2	54.0	57.8	59.3	67.1	67.1	71.7
105°	18.5	18.5	24.7	32.4	40.1	47.1	49.3	49.3	52.5	53.2	55.5
107.5°	17.0	17.0	22.4	29.3	35.5	40.8	42.5	40.8	41.6	41.6	43.2
110°	15.4	15.4	19.2	26.2	31.6	35.5	36.2	34.7	32.4	32.4	34.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	13.9	14.6	17.7	23.1	27.7	31.6	31.6	29.3	25.5	25.5	27.0
115°	13.1	13.1	16.2	20.8	24.7	27.7	27.7	24.7	20.8	20.0	21.6
117.5°	12.4	12.4	13.9	18.5	22.4	24.7	24.7	20.8	17.0	17.0	18.5
120°	11.6	11.6	13.1	17.0	20.0	22.4	21.6	18.5	14.6	14.6	16.2
122.5°	11.6	11.6	12.4	15.4	17.7	19.2	18.5	15.4	12.4	12.4	13.9
125°	10.8	10.8	11.6	13.9	16.2	17.7	16.2	13.1	11.6	11.6	12.4
127.5°	10.8	10.8	10.8	12.4	14.6	15.4	14.6	11.6	10.0	10.0	11.6
130°	10.0	10.0	10.8	11.6	13.1	13.9	12.4	10.0	9.2	9.2	10.8
132.5°	10.0	10.0	10.0	10.0	10.8	11.6	10.0	7.7	8.5	8.5	9.2
135°	9.2	9.2	9.2	9.2	10.0	10.0	8.5	7.0	7.7	7.7	8.5
137.5°	8.5	8.5	8.5	8.5	8.5	7.7	7.0	6.1	7.0	7.0	7.7
140°	7.7	7.7	7.7	7.0	6.1	6.1	5.4	4.6	5.4	5.4	6.1
142.5°	7.0	7.0	7.0	6.1	5.4	4.6	3.9	3.9	4.6	4.6	5.4
145°	6.1	6.1	5.4	4.6	3.9	3.1	2.4	3.1	3.9	3.9	4.6
147.5°	4.6	4.6	4.6	3.9	2.4	1.5	1.5	2.4	3.1	3.1	3.1
150°	3.9	3.9	3.9	3.1	1.5	0.8	0.8	1.5	1.5	1.5	2.4
152.5°	2.4	2.4	2.4	2.4	0.8	0.0	0.0	0.8	1.5	1.5	1.5
155°	1.5	1.5	1.5	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.8
160°	0.0	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.0
162.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0
2.5°	178.1	177.3	175.7	174.2	172.7	171.1	169.6	168.9	167.4	167.4	167.4
5°	187.3	185.1	182.0	178.9	175.7	173.5	171.1	168.9	167.4	166.5	165.7
7.5°	204.3	201.2	195.8	191.2	185.8	181.2	177.3	174.2	172.7	172.0	172.0
10°	227.4	223.6	216.7	207.4	201.2	194.3	188.1	184.2	181.2	180.4	179.6
12.5°	258.3	254.4	242.8	232.8	221.3	210.5	203.6	199.0	196.6	195.8	195.8
15°	302.2	297.6	279.1	262.2	243.7	230.6	221.3	217.4	218.2	220.5	218.2
17.5°	357.0	350.1	328.5	300.6	272.9	252.9	244.4	245.2	248.3	250.6	249.8
20°	424.8	414.8	384.7	345.5	307.6	280.6	272.2	272.9	276.8	283.8	282.9
22.5°	504.2	488.8	450.3	397.1	343.8	313.0	297.6	299.9	308.4	315.4	315.4
25°	591.4	577.5	522.7	451.8	385.4	340.0	320.7	323.9	336.1	343.8	346.2
27.5°	694.7	673.1	605.2	512.7	424.8	363.9	340.0	341.6	357.0	367.0	368.6
30°	805.0	779.5	694.7	573.6	459.5	382.4	351.6	354.7	371.6	383.2	385.4
32.5°	929.0	899.0	788.0	637.6	491.9	393.2	357.7	360.8	378.6	391.7	393.2
35°	1067.0	1023.2	888.2	696.2	513.5	397.1	357.7	361.6	378.6	391.7	393.9
37.5°	1207.4	1158.0	986.1	752.5	526.6	393.9	352.3	357.0	372.4	384.7	387.1
40°	1370.9	1307.6	1093.2	798.7	531.2	385.4	343.1	348.5	361.6	371.6	373.2
42.5°	1557.4	1467.9	1205.9	838.1	524.3	374.7	333.8	340.0	350.8	357.7	358.5
45°	1750.9	1643.0	1315.3	868.9	514.2	361.6	324.6	331.5	340.7	342.3	343.8
47.5°	1959.9	1839.6	1434.8	887.4	496.5	347.7	317.6	324.6	330.7	330.0	330.7
50°	2191.2	2043.1	1556.6	895.1	476.5	336.1	312.2	320.0	324.6	320.7	320.7
52.5°	2417.0	2265.9	1667.6	898.3	454.1	325.4	308.4	317.6	320.0	316.1	316.1
55°	2657.6	2471.8	1778.7	889.8	431.8	316.9	306.9	316.9	318.4	313.0	313.0
57.5°	2879.6	2691.5	1878.9	876.6	410.9	309.1	304.5	316.1	317.6	313.0	313.8
60°	3084.0	2878.1	1956.8	855.0	388.6	301.5	303.0	316.1	317.6	314.6	316.1
62.5°	3208.9	3001.4	1997.6	821.1	367.0	294.5	300.6	314.6	317.6	315.4	316.9
65°	3262.8	3045.4	1992.2	772.5	346.2	286.0	296.0	311.5	315.4	315.4	316.9
67.5°	3222.0	3005.3	1913.6	710.1	326.9	277.5	289.9	305.4	310.7	312.2	314.6
70°	3070.1	2839.6	1755.6	631.5	306.1	268.3	282.2	296.9	303.0	306.1	307.6
72.5°	2767.1	2561.3	1531.2	552.8	284.5	256.8	270.6	284.5	291.4	295.3	295.3
75°	2382.4	2176.5	1260.6	469.5	264.4	243.7	256.8	268.3	276.0	279.9	278.3
77.5°	1916.7	1724.7	979.2	384.7	242.8	228.2	240.6	250.6	256.8	259.8	255.9
80°	1420.2	1297.6	735.5	317.6	221.3	210.5	220.5	228.9	235.9	235.2	232.1
82.5°	1006.9	891.3	515.1	263.7	199.7	191.2	199.0	204.3	209.0	207.4	202.0
85°	670.7	595.3	363.9	215.1	177.3	170.4	175.0	178.1	180.4	176.6	172.7
87.5°	436.4	388.6	262.2	177.3	153.4	148.8	151.1	151.9	152.6	148.8	144.1
90°	285.3	265.3	195.1	146.5	131.9	128.8	128.8	125.7	126.4	121.8	117.2
92.5°	201.2	188.9	151.9	120.3	112.5	110.3	109.5	105.7	104.9	100.2	97.2
95°	150.4	145.0	122.5	101.8	95.6	94.8	93.3	89.4	86.3	81.7	80.2
97.5°	117.2	114.9	101.0	87.2	82.4	80.9	80.2	75.6	73.2	68.6	67.1
100°	93.3	93.3	84.8	74.8	70.9	70.2	69.4	64.8	62.4	57.8	57.1
102.5°	74.8	75.6	70.9	64.8	61.7	60.1	58.6	55.5	51.7	48.6	48.6
105°	58.6	60.1	58.6	54.7	53.2	51.7	50.1	47.1	43.2	40.1	40.1
107.5°	46.2	47.8	47.8	47.1	44.7	44.0	43.2	39.3	36.2	33.1	33.1
110°	35.5	37.7	39.3	39.3	39.3	37.7	36.2	34.0	30.1	27.7	27.7



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CATALOG NUMBER: UTLD-AF24-60-D-U-T2U-TL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	28.5	30.1	32.4	33.1	33.1	33.1	31.6	27.7	24.7	23.1	23.9
115°	23.1	24.7	27.0	28.5	28.5	28.5	26.2	23.9	20.8	20.0	20.0
117.5°	19.2	20.8	22.4	24.7	24.7	24.7	23.1	20.0	17.0	17.0	17.0
120°	17.0	17.7	20.0	20.8	21.6	21.6	20.0	17.0	14.6	14.6	15.4
122.5°	14.6	15.4	17.0	18.5	19.2	18.5	17.0	13.9	12.4	13.1	13.1
125°	13.1	13.9	14.6	16.2	17.0	16.2	14.6	11.6	10.8	11.6	11.6
127.5°	12.4	12.4	13.1	13.9	14.6	13.9	12.4	10.0	9.2	10.8	10.8
130°	10.8	11.6	11.6	12.4	12.4	12.4	10.8	8.5	8.5	9.2	9.2
132.5°	10.0	10.0	10.0	10.8	10.8	10.0	8.5	7.0	7.7	8.5	8.5
135°	8.5	9.2	9.2	9.2	9.2	8.5	7.0	6.1	7.0	7.7	7.7
137.5°	7.7	7.7	7.7	7.7	7.7	7.0	6.1	5.4	6.1	6.1	6.1
140°	6.1	7.0	7.0	6.1	6.1	5.4	4.6	3.9	4.6	5.4	5.4
142.5°	5.4	5.4	5.4	5.4	4.6	3.9	3.1	3.1	3.9	3.9	3.9
145°	4.6	4.6	4.6	3.9	3.1	3.1	2.4	2.4	3.1	3.1	3.9
147.5°	3.1	3.1	3.1	3.1	2.4	2.4	1.5	1.5	2.4	2.4	2.4
150°	2.4	2.4	2.4	2.4	1.5	1.5	1.5	0.8	1.5	1.5	1.5
152.5°	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8
155°	0.8	0.8	1.5	1.5	0.8	0.8	0.8	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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)