

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: P239888

Luminaire Tested: **UTLD-AF24-60-D-U-T3-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-15)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-60-D-U-T3-A
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5535 lumens
Efficiency: N/A
Efficacy: 86.5 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: B1 - 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

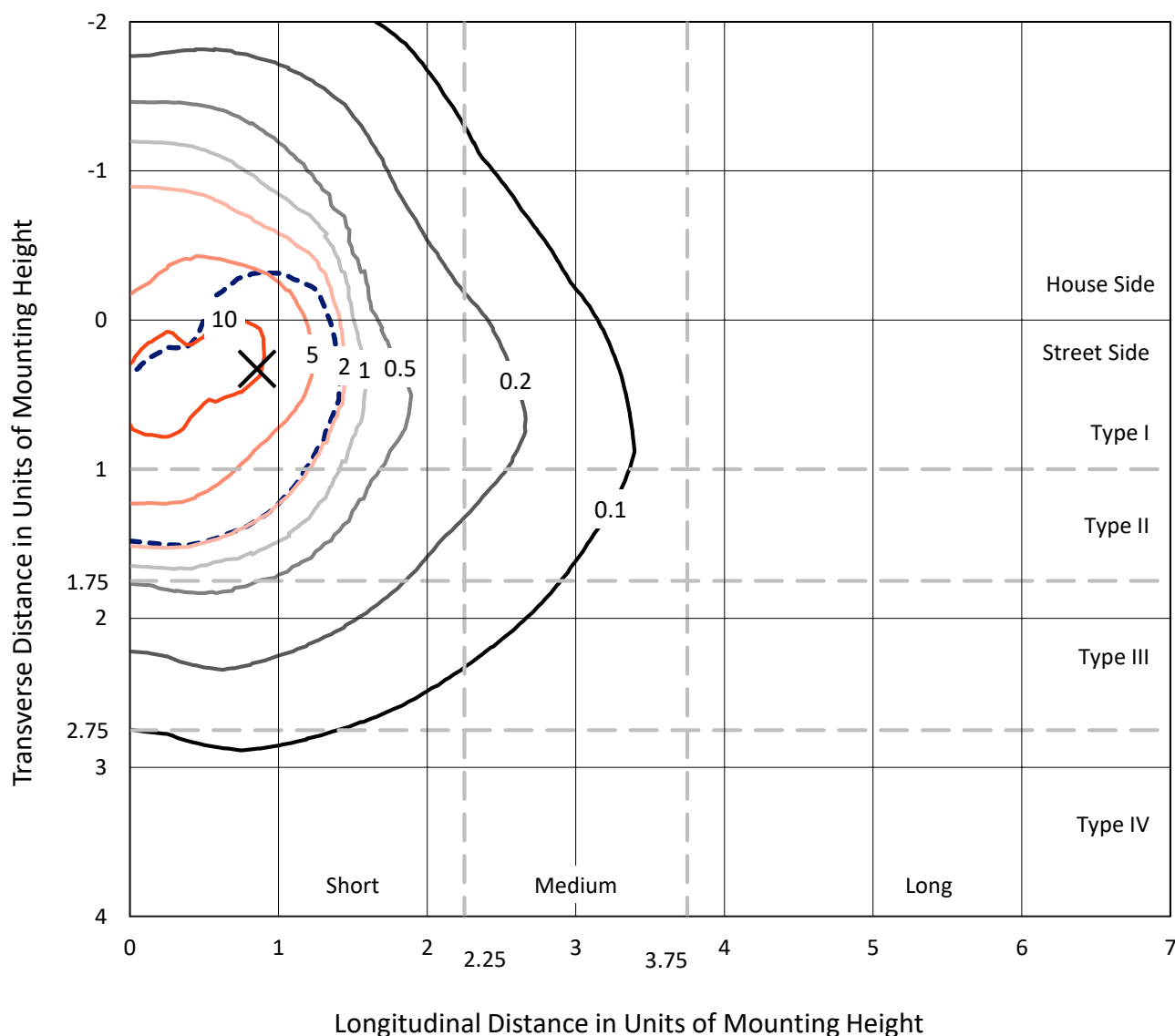


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

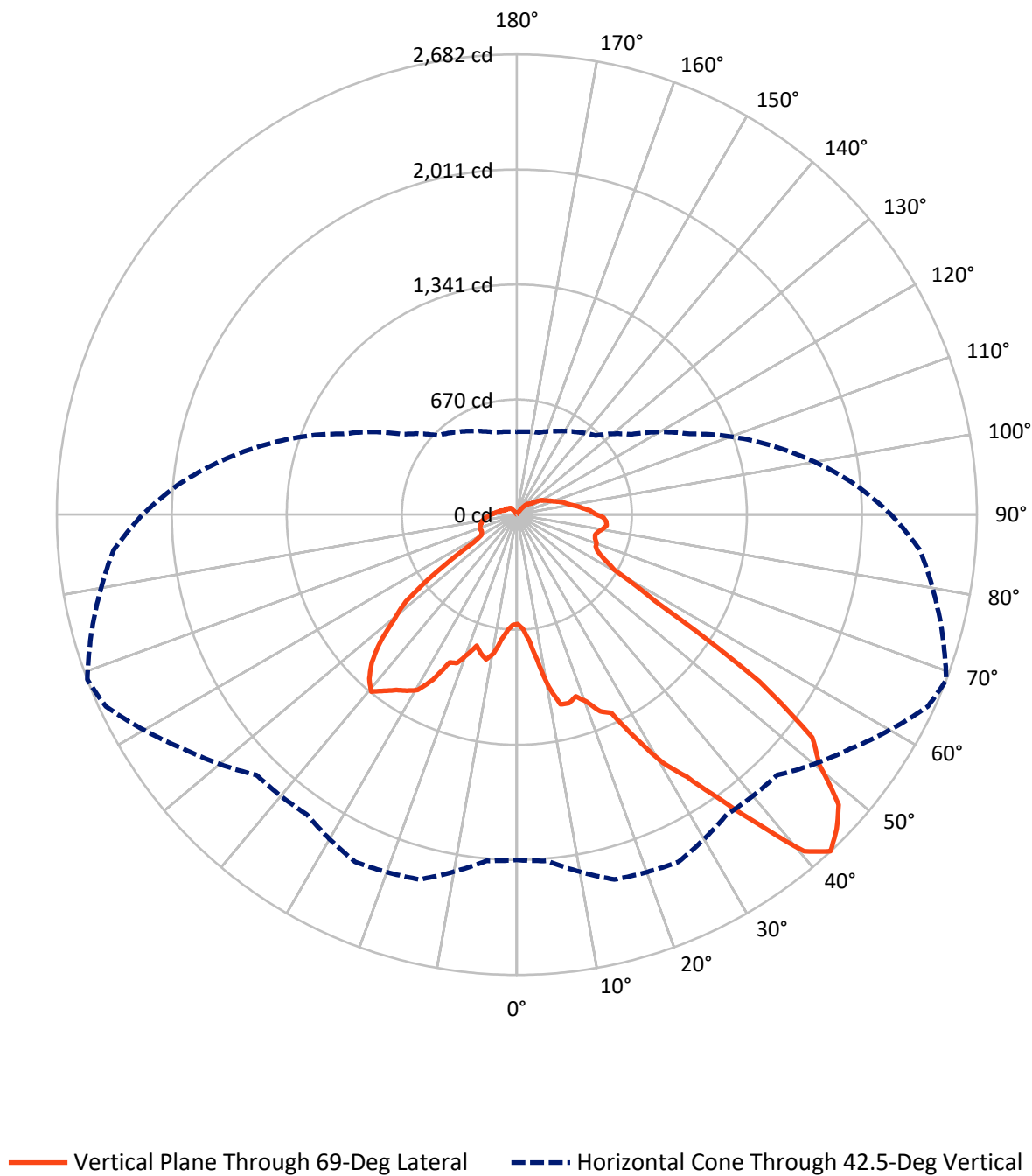


Based on 10 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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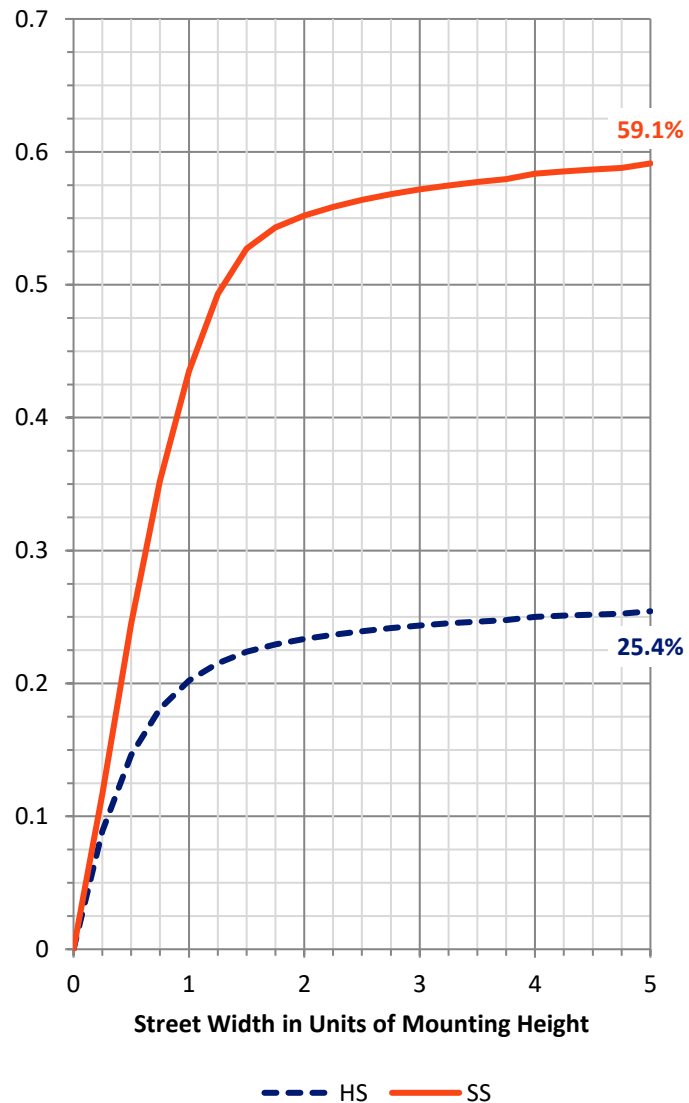
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1458.4	175.8	1634.1
	% Fixture	26.3	3.2	29.5
Street Side	Lumens	3379.4	521.4	3900.9
	% Fixture	61.1	9.4	70.5
Total	Lumens	4837.8	697.2	5535.0
	% Fixture	87.4	12.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.3
10°-20°	266.2	4.8
20°-30°	544.6	9.8
30°-40°	916.0	16.5
40°-50°	1212.5	21.9
50°-60°	874.4	15.8
60°-70°	343.5	6.2
70°-80°	309.5	5.6
80°-90°	301.6	5.4
90°-100°	254.4	4.6
100°-110°	180.9	3.3
110°-120°	121.9	2.2
120°-130°	79.8	1.4
130°-140°	47.7	0.9
140°-150°	12.1	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4837.8	87.4
0°-180°	5535.0	100.0

Coefficient of Utilization



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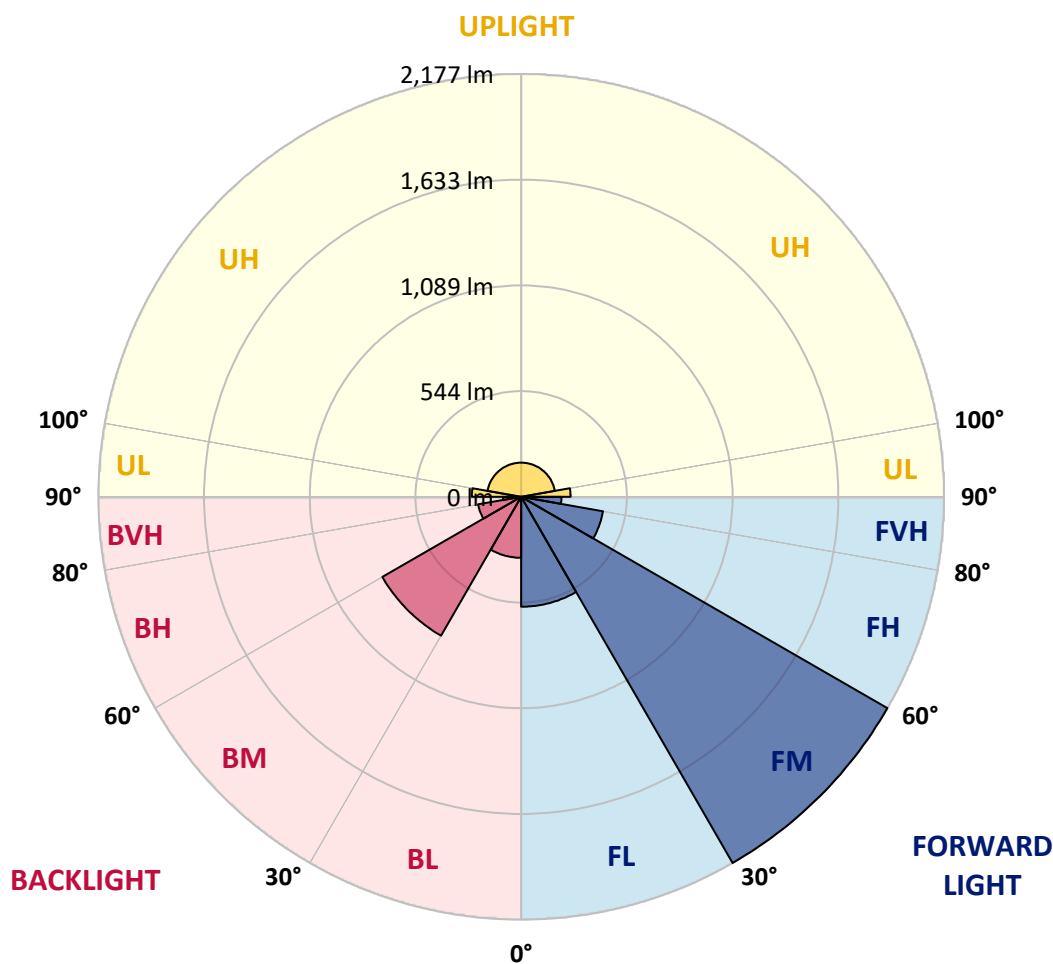
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	566.1	10.2			
FM	(30°-60°)	2177.5	39.3			
FH	(60°-80°)	428.0	7.7			G0/660
FVH	(80°-90°)	207.8	3.8			G2/225
BL	(0°-30°)	314.1	5.7	B1/500		
BM	(30°-60°)	825.5	14.9	B1/1000		
BH	(60°-80°)	225.0	4.1	B1/500		G1/500
BVH	(80°-90°)	93.8	1.7			G1/100
UL	(90°-100°)	254.4	4.6		U3/500	
UH	(100°-180°)	175.8	3.2		U3/500	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9
2.5°	678.3	674.6	673.1	673.1	670.8	670.0	671.6	669.3	665.5	664.8	660.3
5°	725.8	724.3	723.6	729.6	734.9	736.4	734.9	734.9	730.3	730.3	716.0
7.5°	801.9	799.7	805.7	820.8	826.1	841.9	860.7	849.4	852.4	844.2	817.0
10°	890.1	886.4	914.3	934.6	981.3	1000.9	1025.0	1022.8	1018.3	1003.9	958.7
12.5°	970.0	967.8	1003.9	1077.8	1140.4	1203.7	1209.0	1156.9	1133.6	1082.3	1025.8
15°	1069.5	1071.8	1126.8	1231.6	1324.3	1349.9	1285.8	1183.3	1139.6	1086.9	1003.2
17.5°	1230.1	1237.6	1331.1	1450.1	1511.9	1408.7	1271.5	1153.9	1112.5	1055.2	974.5
20°	1323.5	1328.0	1456.2	1617.5	1635.6	1468.2	1325.8	1199.2	1163.0	1117.8	1051.4
22.5°	1379.3	1395.9	1542.8	1740.3	1729.8	1606.9	1409.4	1289.6	1244.4	1182.6	1128.3
25°	1469.0	1481.0	1622.0	1812.7	1765.9	1652.1	1484.1	1324.3	1279.8	1234.6	1180.3
27.5°	1590.3	1601.6	1759.9	1870.0	1821.0	1712.4	1595.6	1493.1	1469.7	1462.2	1438.8
30°	1655.2	1662.7	1840.6	1933.3	1849.6	1799.1	1766.7	1684.5	1677.8	1662.7	1609.2
32.5°	1692.1	1720.7	1927.2	1980.8	1871.5	1865.4	1885.0	1834.5	1821.0	1795.3	1733.5
35°	1725.2	1739.6	1934.0	2015.4	1906.9	1903.9	2038.8	2062.2	2032.0	1979.2	1831.5
37.5°	1980.8	1987.5	2120.9	2092.3	1953.6	1970.2	2192.5	2313.9	2286.8	2221.2	2119.4
40°	2119.4	2131.5	2255.1	2195.6	2052.4	2071.2	2303.3	2555.1	2579.2	2576.9	2488.0
42.5°	2011.7	2024.5	2200.1	2231.7	2133.0	2145.8	2375.7	2643.3	2681.7	2563.4	2358.4
45°	2362.9	2372.7	2471.4	2240.0	2078.0	2127.0	2319.2	2579.2	2613.9	2579.2	2403.6
47.5°	2362.1	2350.1	2432.2	2263.4	2074.2	2041.1	2196.3	2456.3	2524.9	2445.8	2255.1
50°	2076.5	2075.7	2278.5	2181.2	2033.5	1956.6	2061.4	2267.2	2283.7	2191.0	1935.5
52.5°	1813.4	1811.9	2046.3	1996.6	1900.1	1824.7	1889.6	2094.6	2157.9	2076.5	1863.2
55°	1580.5	1645.4	1851.1	1744.8	1704.9	1630.3	1695.1	1745.6	1713.2	1487.1	1003.2
57.5°	957.2	1028.8	1297.1	1374.0	1383.1	1329.5	1182.6	1010.0	948.2	757.5	452.2
60°	446.2	463.5	680.6	828.3	1010.7	924.1	747.7	651.2	651.2	572.1	392.7
62.5°	314.3	326.4	447.0	534.4	605.2	596.9	530.6	544.2	571.3	535.9	378.4
65°	295.5	303.0	398.0	424.3	451.5	456.7	447.7	489.2	517.8	513.3	383.6
67.5°	274.4	284.1	363.3	380.6	401.7	411.5	418.3	466.5	496.7	513.3	398.7
70°	249.5	260.8	335.4	359.5	379.9	402.5	410.8	462.8	493.7	510.3	404.0
72.5°	226.1	235.9	298.5	328.6	364.8	391.2	424.3	456.0	477.1	494.4	407.0
75°	203.5	214.8	267.6	302.2	344.4	394.2	434.1	457.5	471.8	485.4	403.2
77.5°	188.4	200.5	241.9	281.9	332.4	401.0	446.2	476.3	484.6	486.9	398.7
80°	174.9	188.4	232.1	274.4	329.4	404.0	460.5	496.7	508.0	513.3	424.3
82.5°	184.7	196.7	234.4	285.7	339.2	403.2	456.7	514.0	526.8	523.8	432.6
85°	208.8	218.6	264.6	312.8	354.2	396.5	443.2	505.7	523.8	539.7	458.3
87.5°	254.0	258.5	291.7	336.2	370.1	383.6	430.4	489.2	505.7	511.0	446.2
90°	278.1	282.6	321.8	358.8	369.3	373.8	383.6	442.4	454.5	475.6	426.6
92.5°	306.0	306.0	346.7	368.6	368.6	349.7	356.5	409.3	429.6	441.7	396.5
95°	333.1	331.6	354.2	367.1	347.5	321.1	332.4	373.8	386.7	399.5	368.6
97.5°	341.4	340.7	354.2	346.7	314.3	289.4	303.7	339.2	352.7	366.3	334.6
100°	332.4	328.6	332.4	315.8	285.7	266.8	275.1	304.5	318.8	330.1	301.5
102.5°	312.8	310.5	312.0	295.5	263.8	241.2	252.5	283.4	293.9	303.0	277.4
105°	303.7	300.0	293.2	269.1	238.2	222.3	232.1	263.0	272.8	290.9	269.8
107.5°	258.5	255.5	250.2	237.4	221.6	209.5	217.8	239.7	245.7	254.8	235.2
110°	223.1	221.6	220.1	217.1	207.3	199.0	203.5	215.6	223.1	229.9	210.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
112.5°	215.6	213.3	211.8	206.5	193.7	184.7	187.7	201.2	205.8	208.0	186.9
115°	205.8	203.5	195.2	187.7	178.6	174.1	174.9	186.2	189.2	190.7	177.9
117.5°	182.4	180.1	174.9	171.8	166.6	164.3	168.1	174.1	174.9	175.6	164.3
120°	168.8	168.1	165.1	159.8	156.0	150.7	156.8	162.8	165.1	167.3	159.8
122.5°	153.8	152.2	149.2	142.5	142.5	139.4	138.7	142.5	143.2	149.2	145.5
125°	135.7	134.2	131.1	125.1	132.7	132.7	127.4	119.1	121.3	126.6	123.6
127.5°	121.3	119.8	116.8	113.8	124.4	128.1	119.1	104.0	105.5	107.0	104.8
130°	119.1	117.6	113.8	108.5	111.5	122.9	107.0	95.0	97.2	98.7	97.2
132.5°	116.8	116.1	110.8	104.0	100.2	110.8	92.7	89.7	92.0	94.2	92.7
135°	109.3	108.5	104.0	94.2	83.7	88.9	73.9	78.4	82.2	85.2	83.7
137.5°	97.2	96.5	92.7	82.9	68.6	64.1	56.5	67.1	70.1	73.9	73.9
140°	78.4	77.6	73.9	64.1	48.2	33.9	36.2	51.3	54.3	58.8	59.5
142.5°	57.3	55.8	52.0	43.0	27.1	11.3	20.4	30.9	34.7	39.2	42.2
145°	39.2	38.4	33.2	25.6	12.8	1.5	9.0	18.8	21.1	24.1	27.1
147.5°	24.9	24.9	21.1	14.3	3.8	1.5	2.3	9.8	12.1	15.1	17.3
150°	15.1	15.1	11.3	4.5	0.8	0.8	0.8	1.5	3.8	6.8	9.0
152.5°	3.8	3.8	2.3	1.5	0.8	0.0	0.8	0.8	0.8	0.8	1.5
155°	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.8	0.8	0.8	0.0	0.8	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°	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9
2.5°	658.0	653.5	647.4	639.1	630.9	622.6	614.3	609.8	607.5	606.0	605.2
5°	712.3	702.5	686.6	664.8	637.6	621.8	610.5	596.9	587.9	584.9	582.6
7.5°	808.0	792.2	760.5	713.8	680.6	633.9	593.9	568.3	549.5	538.9	538.9
10°	936.1	913.5	858.5	794.4	709.2	627.1	565.3	518.6	496.7	487.7	485.4
12.5°	992.6	970.8	906.0	831.3	740.9	645.2	566.8	511.0	484.6	474.1	475.6
15°	964.0	933.8	878.1	808.0	737.1	676.8	611.3	541.9	496.7	484.6	488.4
17.5°	935.4	904.5	844.9	767.3	697.9	658.0	612.0	565.3	522.3	505.0	502.0
20°	1019.0	996.4	915.8	827.6	723.6	622.6	590.2	569.1	554.7	555.5	548.7
22.5°	1098.9	1068.0	994.1	890.9	778.6	690.4	637.6	609.8	593.9	600.7	601.5
25°	1152.4	1129.1	1019.8	896.2	802.7	737.1	661.0	621.8	595.4	595.4	592.4
27.5°	1424.5	1366.5	1193.1	1003.9	864.5	756.0	664.0	618.8	585.6	575.8	577.3
30°	1567.0	1509.7	1311.5	1081.6	935.4	801.2	672.3	602.2	593.9	587.1	589.4
32.5°	1689.1	1604.7	1370.2	1101.9	922.5	808.0	690.4	606.0	566.0	559.3	562.3
35°	1749.4	1655.2	1417.0	1120.0	928.6	779.3	668.5	590.2	564.5	557.7	560.0
37.5°	2027.5	1886.5	1490.8	1147.1	927.1	741.7	639.1	575.8	528.4	508.0	508.0
40°	2347.1	2139.8	1619.7	1145.6	869.8	709.2	606.7	547.9	510.3	494.4	493.7
42.5°	2181.2	1983.8	1544.4	1111.7	814.0	650.5	588.6	535.9	495.2	484.6	482.4
45°	2250.6	2039.5	1490.1	1016.8	730.3	603.7	545.7	508.8	462.0	437.9	437.2
47.5°	2030.5	1860.9	1379.3	896.2	658.0	530.6	494.4	470.3	440.9	420.6	418.3
50°	1761.4	1590.3	1160.7	794.4	560.8	470.3	445.4	433.4	404.0	380.6	382.1
52.5°	1683.0	1475.8	1011.5	693.4	482.4	410.0	398.0	384.4	355.0	327.9	330.9
55°	834.4	691.2	615.0	538.9	404.7	356.5	351.2	342.9	313.5	290.2	290.9
57.5°	388.9	335.4	293.9	312.8	305.3	309.8	307.5	302.2	274.4	241.2	238.9
60°	348.2	298.5	249.5	236.7	251.0	270.6	269.1	252.5	217.1	177.9	173.4
62.5°	336.2	285.7	241.9	223.1	229.1	241.9	232.9	211.8	183.2	147.0	146.2
65°	342.2	288.7	241.2	217.8	222.3	227.6	214.8	199.7	182.4	157.5	157.5
67.5°	355.0	300.0	246.5	215.6	217.8	223.1	211.0	200.5	191.4	174.9	174.9
70°	358.8	305.3	249.5	216.3	214.1	218.6	210.3	200.5	195.2	181.6	180.9
72.5°	360.3	308.3	248.0	212.5	207.3	211.0	205.0	200.5	198.2	187.7	186.2
75°	353.5	305.3	240.4	204.3	199.0	200.5	199.0	198.2	201.2	194.5	192.2
77.5°	345.2	300.7	234.4	195.2	189.2	189.9	188.4	190.7	193.7	189.2	185.4
80°	362.5	313.5	235.2	188.4	177.1	173.4	174.1	176.4	180.1	170.3	165.1
82.5°	368.6	314.3	224.6	173.4	159.0	153.8	155.3	161.3	164.3	155.3	150.0
85°	391.2	328.6	217.1	159.8	143.2	137.9	139.4	143.2	141.7	131.1	126.6
87.5°	382.1	318.8	203.5	144.0	130.4	125.9	126.6	128.1	122.9	109.3	105.5
90°	369.3	307.5	188.4	126.6	115.3	113.8	112.3	110.0	101.0	86.7	82.9
92.5°	346.0	287.2	174.9	114.6	102.5	101.8	99.5	95.0	86.7	72.4	68.6
95°	326.4	269.1	162.0	104.8	92.0	88.9	88.9	84.4	75.4	63.3	61.8
97.5°	293.9	245.0	149.2	96.5	82.2	79.1	78.4	75.4	68.6	59.5	58.8
100°	266.1	221.6	135.7	87.4	73.9	70.8	69.3	67.8	62.6	57.3	57.3
102.5°	246.5	205.0	126.6	79.9	66.3	63.3	63.3	61.8	58.8	55.0	55.0
105°	241.2	201.2	122.9	73.1	58.8	57.3	58.0	58.0	55.8	53.5	53.5
107.5°	209.5	173.4	105.5	64.8	53.5	52.0	52.8	53.5	52.8	52.0	52.0
110°	186.9	157.5	98.0	61.1	50.5	48.2	48.2	48.2	48.2	49.0	49.7



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CATALOG NUMBER: UTLD-AF24-60-D-U-T3-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	167.3	140.2	89.7	58.0	47.5	45.2	44.5	43.7	43.0	46.0	46.0
115°	159.8	136.4	87.4	56.5	45.2	43.0	40.7	39.2	37.7	39.9	40.7
117.5°	148.5	128.1	85.2	56.5	44.5	40.7	38.4	36.2	33.9	36.2	36.2
120°	145.5	127.4	86.7	57.3	43.0	37.7	35.4	32.4	30.9	33.2	33.9
122.5°	134.2	119.1	82.2	54.3	41.5	36.2	33.9	27.9	27.9	29.4	30.1
125°	113.8	101.0	70.8	49.0	39.2	36.2	33.2	24.9	25.6	27.1	27.1
127.5°	97.2	87.4	64.8	47.5	39.9	36.9	30.9	23.4	24.9	27.1	27.1
130°	92.0	83.7	65.6	49.7	41.5	37.7	25.6	20.4	24.1	26.4	26.4
132.5°	88.2	81.4	65.6	52.0	43.0	34.7	20.4	18.1	20.4	21.9	21.9
135°	79.9	75.4	62.6	49.7	39.2	27.1	16.6	15.8	18.8	20.4	20.4
137.5°	71.6	67.1	57.3	46.0	34.7	21.9	12.1	14.3	15.8	17.3	17.3
140°	58.8	55.8	47.5	37.7	25.6	12.1	9.0	11.3	13.6	15.1	15.1
142.5°	41.5	39.9	33.2	24.1	14.3	4.5	6.0	8.3	9.8	11.3	11.3
145°	27.1	25.6	21.1	15.1	6.0	1.5	3.8	5.3	7.5	8.3	8.3
147.5°	17.3	16.6	12.8	7.5	2.3	1.5	1.5	3.8	6.0	6.8	6.8
150°	8.3	7.5	5.3	2.3	1.5	0.8	0.8	1.5	3.8	4.5	4.5
152.5°	1.5	1.5	1.5	0.8	0.8	0.0	0.0	0.8	0.8	1.5	1.5
155°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.8	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	0.8	0.8	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)