

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: P240203

Luminaire Tested: **UTLD-AF24-60-D-U-T4W-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240203
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-26)
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-T4W-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5325.3 lumens
Efficiency: N/A
Efficacy: 83.2 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 - U4 - 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



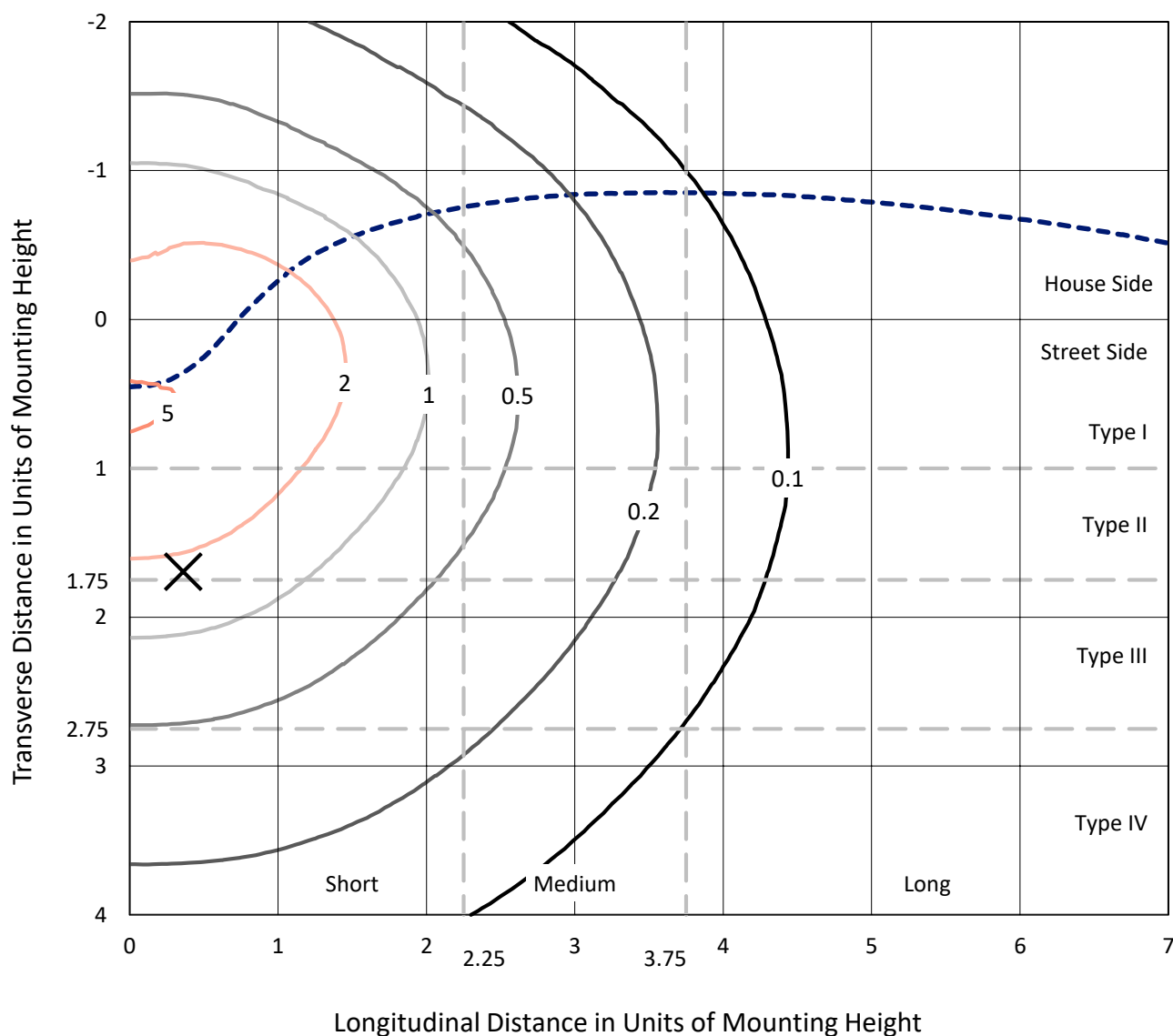
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

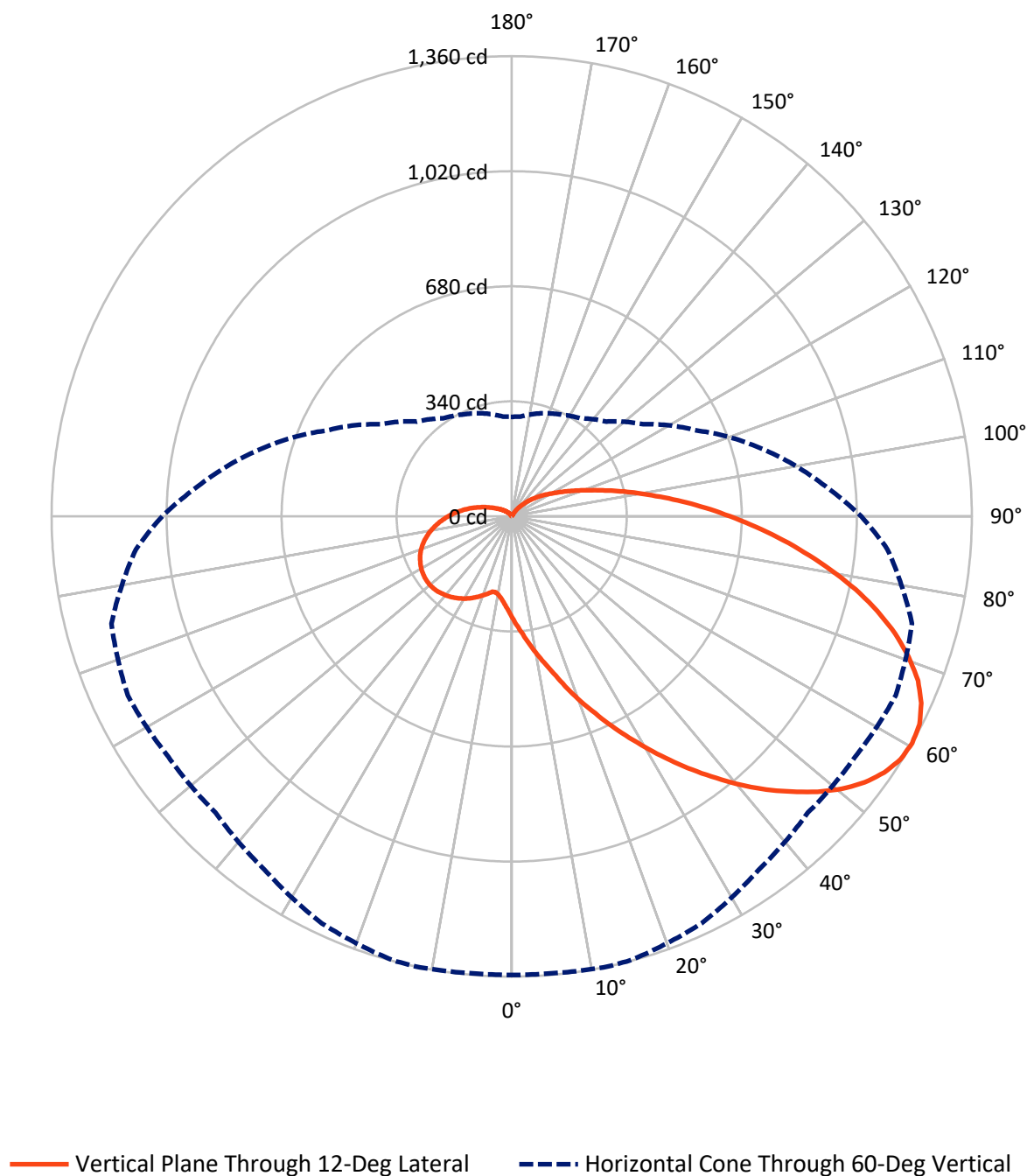


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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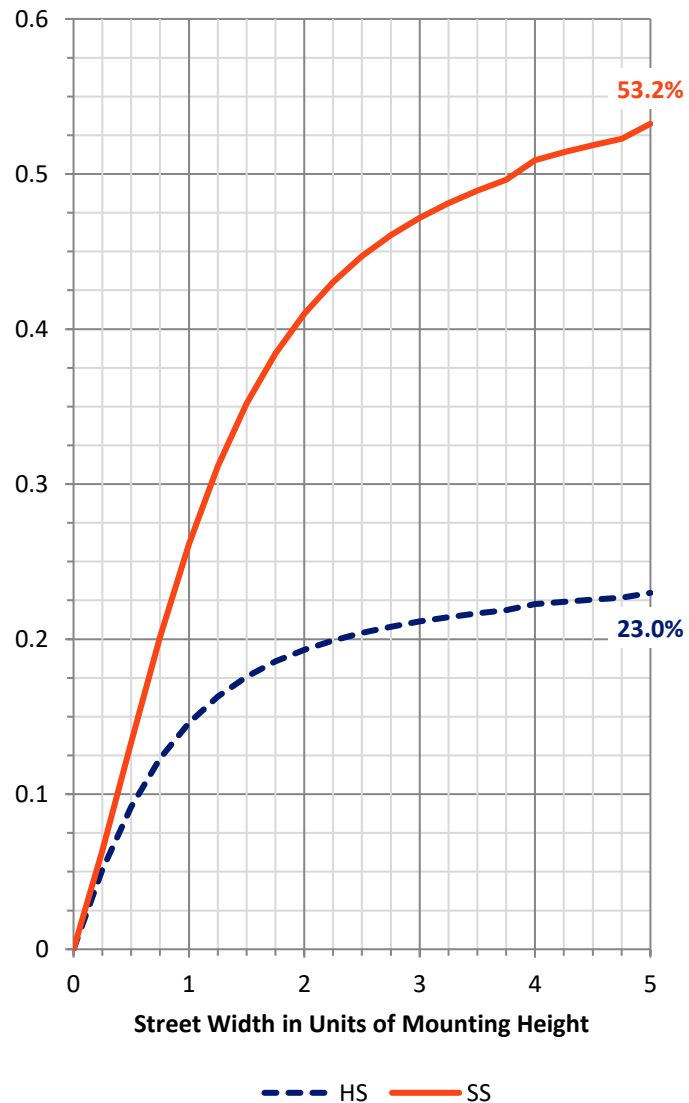
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1309.3	301.5	1610.8
	% Fixture	24.6	5.7	30.2
Street Side	Lumens	3089.7	624.8	3714.5
	% Fixture	58.0	11.7	69.8
Total	Lumens	4399.0	926.3	5325.3
	% Fixture	82.6	17.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.8	0.6
10°-20°	104.4	2.0
20°-30°	224.0	4.2
30°-40°	392.1	7.4
40°-50°	590.5	11.1
50°-60°	770.9	14.5
60°-70°	858.6	16.1
70°-80°	801.5	15.1
80°-90°	627.1	11.8
90°-100°	423.8	8.0
100°-110°	256.1	4.8
110°-120°	141.1	2.6
120°-130°	70.2	1.3
130°-140°	28.1	0.5
140°-150°	6.7	0.1
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4399.0	82.6
0°-180°	5325.3	100.0

Coefficient of Utilization



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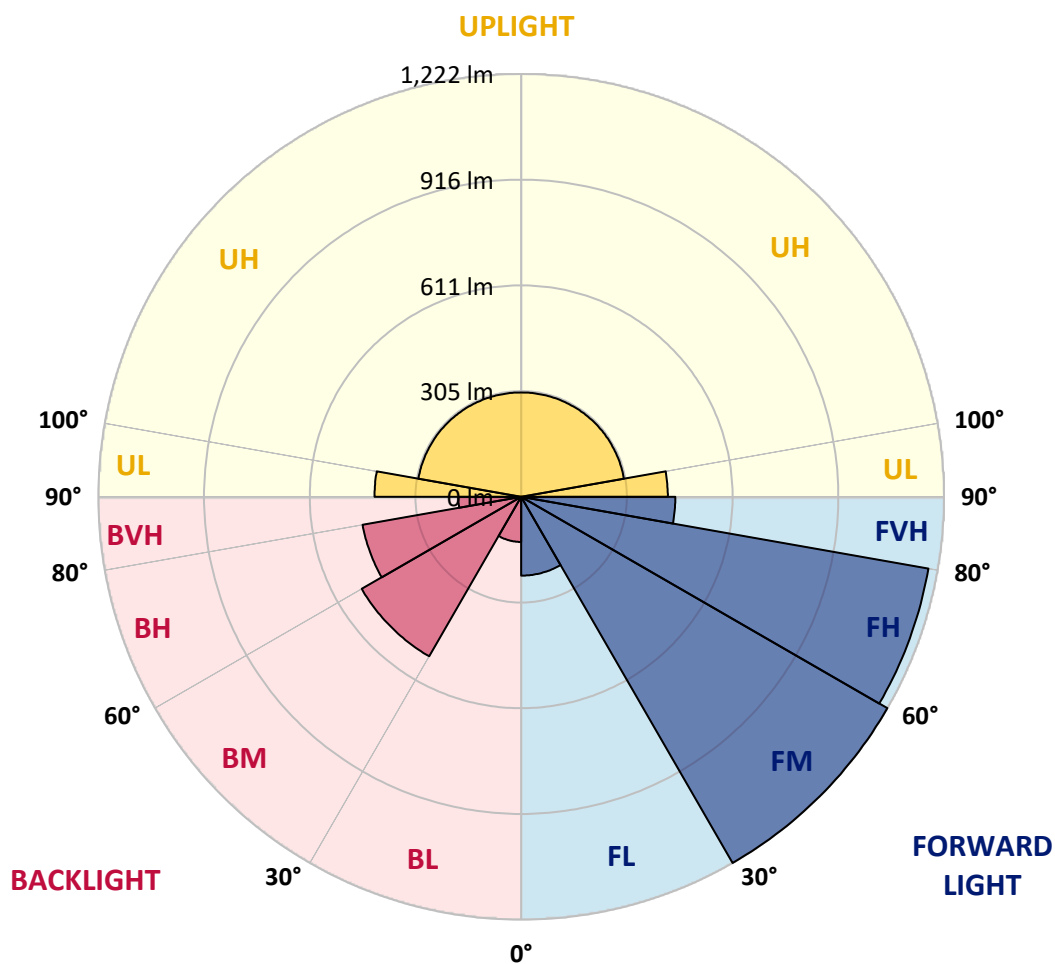
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	227.8	4.3			
FM	(30°-60°)	1221.7	22.9			
FH	(60°-80°)	1194.9	22.4			G1/1800
FVH	(80°-90°)	445.3	8.4			G3/500
BL	(0°-30°)	130.5	2.4	B1/500		
BM	(30°-60°)	531.9	10.0	B1/1000		
BH	(60°-80°)	465.2	8.7	B1/500		G1/500
BVH	(80°-90°)	181.8	3.4			G2/225
UL	(90°-100°)	423.8	8.0		U3/500	
UH	(100°-180°)	301.5	5.7		U3/500	

BUG Rating: B1-U4-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	300.3	300.3	300.3	300.3	300.3	300.3	300.3	300.3	300.3	300.3	300.3
2.5°	326.3	324.9	324.9	323.5	323.5	320.6	318.6	315.0	311.5	307.2	303.7
5°	352.4	352.4	350.9	350.9	348.1	343.2	338.2	331.9	325.6	318.6	310.1
7.5°	383.4	382.7	382.7	380.6	377.1	370.0	363.0	353.8	343.9	331.9	320.6
10°	415.0	414.4	414.4	412.2	408.1	399.6	389.1	378.5	365.8	350.2	334.8
12.5°	453.2	450.3	448.9	448.2	441.2	433.4	420.0	407.3	390.5	372.8	353.8
15°	493.3	492.6	488.4	486.3	479.2	467.3	454.6	439.1	422.2	402.4	379.1
17.5°	538.4	538.4	535.6	532.7	525.1	508.8	492.6	477.8	461.0	436.9	411.0
20°	587.0	587.0	583.6	579.3	569.5	555.4	539.2	521.5	501.1	475.1	443.3
22.5°	638.5	637.1	632.2	629.4	617.5	601.9	589.2	568.7	544.7	515.1	478.5
25°	692.8	690.6	685.7	682.9	668.7	656.8	642.0	618.1	590.5	556.7	515.9
27.5°	749.8	744.3	740.7	736.5	723.1	711.1	690.6	668.1	636.4	601.2	556.0
30°	804.8	802.7	798.4	792.9	780.8	766.8	744.3	719.6	688.6	649.8	599.8
32.5°	867.5	865.5	858.4	852.8	837.3	822.5	799.2	773.1	740.0	699.1	644.8
35°	930.4	927.5	919.8	913.4	900.8	878.9	851.3	826.6	793.6	752.0	693.5
37.5°	995.2	989.5	981.0	976.8	961.3	934.5	905.6	878.9	848.5	806.3	742.9
40°	1056.4	1053.6	1043.8	1038.8	1021.9	988.8	957.1	933.1	905.6	861.2	794.4
42.5°	1119.2	1114.2	1104.4	1099.4	1079.7	1041.7	1008.6	985.9	962.7	919.0	846.4
45°	1174.9	1172.7	1160.8	1157.9	1134.0	1093.1	1055.0	1035.3	1014.9	973.3	894.4
47.5°	1229.0	1224.1	1216.4	1212.9	1184.7	1138.2	1100.9	1084.0	1067.0	1029.0	945.7
50°	1273.5	1272.8	1265.8	1261.5	1229.0	1178.4	1140.3	1126.9	1117.7	1081.1	992.3
52.5°	1311.5	1310.9	1306.6	1302.4	1267.9	1215.0	1175.5	1165.7	1162.8	1129.0	1033.1
55°	1338.3	1337.7	1336.2	1332.0	1298.2	1243.9	1205.1	1197.4	1200.9	1169.2	1069.8
57.5°	1353.8	1353.1	1355.3	1351.7	1317.2	1263.7	1225.6	1223.4	1231.9	1203.1	1097.3
60°	1355.3	1355.3	1360.2	1358.1	1327.1	1274.2	1238.2	1239.0	1252.3	1224.9	1115.0
62.5°	1342.6	1342.6	1353.1	1351.0	1324.2	1273.5	1240.4	1246.0	1262.9	1236.9	1121.3
65°	1315.1	1318.6	1330.6	1330.6	1309.5	1263.7	1233.3	1241.8	1262.3	1236.2	1117.0
67.5°	1271.4	1278.5	1295.4	1296.8	1281.9	1241.8	1215.0	1227.0	1249.6	1222.1	1099.4
70°	1217.1	1227.0	1244.6	1249.6	1243.2	1210.0	1187.5	1201.7	1223.4	1196.0	1070.5
72.5°	1153.7	1162.8	1185.5	1191.0	1193.2	1167.1	1149.5	1166.4	1184.1	1154.5	1030.4
75°	1083.2	1091.0	1116.3	1122.0	1131.2	1116.3	1105.0	1118.5	1138.2	1101.6	979.0
77.5°	998.0	1011.3	1039.5	1045.8	1063.5	1056.4	1048.1	1064.1	1079.1	1040.2	919.0
80°	915.5	932.4	955.7	968.4	989.5	988.8	990.2	1000.9	1013.5	971.2	854.2
82.5°	831.6	843.6	871.2	883.1	915.5	923.2	923.2	937.3	941.6	894.4	784.4
85°	747.0	761.1	788.7	800.7	835.9	852.8	857.6	864.8	865.5	816.1	712.5
87.5°	672.4	680.8	706.9	721.6	759.8	779.4	785.8	794.4	788.7	740.0	638.5
90°	597.6	605.4	630.8	642.8	684.3	707.6	721.6	725.2	713.9	662.4	570.9
92.5°	527.8	535.6	559.6	573.7	614.6	639.2	652.6	655.4	642.8	590.5	505.4
95°	466.5	466.5	492.6	503.2	549.0	576.5	589.2	589.2	571.5	520.1	442.6
97.5°	408.7	410.2	430.6	444.0	486.3	515.1	528.6	529.3	504.6	455.9	389.7
100°	356.6	358.7	377.7	389.7	430.6	461.0	472.9	470.8	445.4	395.4	336.8
102.5°	313.6	313.6	329.9	339.7	378.5	408.7	420.0	415.8	389.7	341.8	293.9
105°	274.9	276.3	286.8	296.7	333.3	361.5	372.8	366.4	339.7	293.2	256.5
107.5°	243.8	243.1	250.2	257.2	291.7	318.6	328.5	320.6	292.5	250.9	222.7
110°	212.8	213.5	219.2	224.1	255.7	281.3	288.2	281.9	250.2	213.5	193.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	188.2	188.2	192.4	196.6	219.2	243.8	252.3	243.1	212.8	181.2	168.5
115°	167.0	167.7	169.2	171.2	190.3	212.8	219.9	208.5	178.9	155.0	146.6
117.5°	148.7	148.7	149.3	151.6	163.5	184.0	188.9	176.9	151.6	132.5	128.9
120°	133.2	132.5	131.7	132.5	141.0	155.8	160.7	148.7	126.2	114.8	112.1
122.5°	118.4	118.4	117.0	117.7	119.8	131.1	134.6	123.4	106.4	99.4	98.7
125°	104.4	104.4	102.9	102.1	101.5	107.1	108.5	100.1	88.1	86.0	85.2
127.5°	90.9	91.7	89.5	88.8	86.0	86.7	87.4	79.6	72.5	73.3	74.0
130°	79.6	79.6	77.6	76.2	71.9	68.4	66.9	62.1	59.2	62.1	64.1
132.5°	69.1	67.6	66.2	64.8	58.5	53.5	50.7	46.6	48.0	52.1	54.3
135°	57.8	57.1	54.9	54.3	48.0	40.2	35.3	33.9	38.0	42.9	44.4
137.5°	47.2	47.2	45.2	43.7	36.6	28.9	23.9	23.9	28.9	33.9	36.6
140°	37.3	37.3	35.3	33.9	27.6	19.7	14.7	15.6	21.2	26.1	28.2
142.5°	28.2	28.2	26.1	25.3	19.7	12.7	8.4	9.9	14.7	19.0	21.2
145°	20.4	19.7	18.3	17.6	12.7	7.7	4.3	5.7	9.2	12.7	14.7
147.5°	13.4	13.4	12.0	11.3	7.7	4.3	1.4	2.8	5.7	7.7	9.9
150°	7.7	7.7	7.1	6.3	4.3	1.4	0.0	1.4	2.8	4.3	5.7
152.5°	4.3	4.3	3.5	3.5	1.4	0.6	0.0	0.0	0.6	2.0	2.0
155°	1.4	1.4	1.4	1.4	0.6	0.0	0.0	0.0	0.0	0.6	0.6
157.5°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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°	300.3	300.3	300.3	300.3	300.3	300.3	300.3	300.3	300.3	300.3	300.3
2.5°	301.7	299.5	295.3	291.7	288.2	284.1	281.9	279.8	278.4	277.0	277.0
5°	305.8	301.7	293.9	286.2	279.0	272.7	267.1	262.9	260.8	259.4	258.6
7.5°	315.0	308.6	296.0	284.1	273.4	263.6	255.7	249.4	246.0	243.8	243.1
10°	327.0	317.8	301.7	285.3	271.3	258.6	248.1	240.4	235.4	233.3	231.8
12.5°	343.2	331.9	310.9	290.4	272.0	256.5	243.1	234.7	229.8	226.9	226.9
15°	367.8	353.1	327.0	299.5	277.0	258.0	243.1	234.1	230.4	229.0	228.4
17.5°	396.1	379.1	347.5	315.8	286.8	262.9	249.4	243.8	239.0	236.8	236.8
20°	427.1	406.7	370.0	334.0	301.7	277.0	262.2	253.1	247.4	245.3	244.5
22.5°	458.2	436.9	394.0	353.1	317.2	295.3	274.1	262.9	255.7	253.1	252.3
25°	493.3	470.1	419.3	373.5	339.0	314.3	289.6	273.4	264.3	260.8	260.0
27.5°	531.4	503.9	447.5	395.4	360.1	331.3	303.7	281.9	272.7	268.6	267.8
30°	570.9	540.5	475.8	417.9	380.6	346.1	317.2	292.5	280.5	275.6	274.9
32.5°	612.4	576.5	506.0	444.6	399.6	359.5	328.5	302.3	287.6	281.9	281.9
35°	659.0	617.5	535.6	469.4	417.3	372.8	338.2	311.5	293.9	288.2	288.2
37.5°	703.3	658.3	567.4	496.1	433.4	383.4	346.1	319.9	300.3	293.2	293.2
40°	750.6	699.1	597.6	518.0	447.5	391.8	353.1	326.3	305.2	298.9	297.4
42.5°	796.4	740.0	630.1	540.5	459.6	398.9	358.7	331.9	309.4	301.7	300.9
45°	844.3	780.8	661.0	558.9	469.4	403.8	361.5	335.4	314.3	304.5	303.0
47.5°	885.9	819.7	691.4	575.1	477.1	406.7	363.7	338.2	317.2	305.8	304.5
50°	927.5	854.2	716.7	588.5	481.4	408.1	364.4	339.0	319.2	305.8	304.5
52.5°	964.9	886.6	738.6	597.6	483.5	407.3	363.7	339.0	319.9	304.5	303.0
55°	995.8	912.7	754.1	603.3	483.5	405.3	361.5	337.6	319.2	303.0	300.9
57.5°	1019.1	930.4	764.7	604.6	479.9	401.0	358.1	335.4	317.2	300.3	297.4
60°	1033.1	940.1	768.2	601.2	474.3	396.1	353.8	332.7	315.0	296.0	293.9
62.5°	1037.4	941.6	764.7	594.2	466.5	389.1	347.5	327.7	310.9	291.0	289.0
65°	1030.4	933.8	754.8	582.8	455.9	380.6	341.1	322.1	305.8	285.3	283.3
67.5°	1011.3	916.9	737.2	567.4	444.0	370.7	334.0	315.8	300.3	279.0	274.9
70°	983.2	891.5	714.7	548.3	429.9	360.1	325.6	308.0	292.5	272.0	267.8
72.5°	942.3	857.0	685.0	525.1	413.6	348.9	315.0	298.9	284.1	263.6	258.0
75°	892.9	812.6	649.8	501.1	396.8	335.4	304.5	289.0	274.1	253.7	248.8
77.5°	838.0	766.1	611.8	473.6	377.1	322.1	293.2	278.4	262.9	243.1	236.1
80°	778.0	711.9	570.2	445.4	358.7	307.2	280.5	266.4	250.9	231.8	224.1
82.5°	713.3	655.4	528.6	417.3	338.2	292.5	267.8	253.7	237.5	219.2	211.4
85°	649.8	597.6	484.9	386.9	318.6	277.0	253.7	239.6	224.8	205.9	198.8
87.5°	584.2	539.2	441.9	357.3	298.9	262.2	240.4	225.5	210.0	192.4	186.8
90°	527.1	484.1	401.7	329.1	278.4	246.0	226.2	210.8	195.9	178.9	174.0
92.5°	466.5	431.3	362.3	302.3	259.4	230.4	212.2	197.3	181.2	164.9	161.3
95°	414.4	385.4	326.3	275.6	239.0	215.7	198.1	182.6	166.3	150.8	148.7
97.5°	364.4	340.5	291.0	250.9	221.2	200.2	183.2	168.5	151.6	137.4	136.0
100°	319.9	298.9	259.4	228.4	202.2	185.3	169.9	154.4	137.4	124.0	124.0
102.5°	279.0	262.9	231.2	205.1	185.3	169.2	155.0	139.6	122.6	111.3	112.1
105°	246.0	230.4	204.5	184.6	168.5	153.6	140.3	124.8	108.5	99.4	100.1
107.5°	214.2	202.2	181.2	164.2	151.6	139.6	125.4	110.7	94.4	88.8	89.5
110°	186.8	177.5	160.7	146.6	136.7	125.4	112.7	97.2	82.5	78.8	78.8



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CATALOG NUMBER: UTLD-AF24-60-D-U-T4W-FP-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	162.8	155.0	142.4	131.1	121.2	112.1	98.7	84.5	70.5	69.1	69.1
115°	142.4	136.7	124.8	115.6	108.5	99.4	87.4	72.5	61.3	60.6	61.3
117.5°	124.8	119.8	110.0	102.1	95.8	87.4	76.2	62.1	52.1	52.9	53.5
120°	109.3	105.8	97.2	90.9	84.5	76.8	64.8	52.1	45.8	46.6	46.6
122.5°	96.5	93.0	86.0	79.6	74.0	66.2	55.7	43.7	39.5	40.9	40.9
125°	83.9	81.7	74.8	69.1	63.5	55.7	45.8	35.9	33.9	35.3	35.3
127.5°	72.5	71.1	65.5	59.2	53.5	46.6	37.3	29.6	28.9	30.3	30.3
130°	62.8	61.3	56.4	50.7	44.4	38.0	28.9	23.9	24.7	26.1	26.8
132.5°	53.5	52.9	48.0	41.6	35.9	29.6	22.5	19.7	21.2	22.5	22.5
135°	44.4	43.7	40.2	34.5	28.2	22.5	16.9	15.6	17.6	19.0	19.0
137.5°	36.6	35.3	32.4	26.8	21.2	16.2	12.0	12.7	14.1	15.6	15.6
140°	28.9	28.2	25.3	20.4	14.7	10.6	8.4	9.9	12.0	12.7	12.7
142.5°	21.2	21.2	18.3	14.1	9.2	6.3	5.7	7.1	9.2	9.9	9.9
145°	14.7	14.7	12.7	9.2	5.7	2.8	2.8	4.9	6.3	7.1	7.7
147.5°	9.9	9.2	7.7	5.7	2.8	0.6	1.4	3.5	4.3	4.9	4.9
150°	5.7	5.7	4.3	2.8	1.4	0.0	0.6	1.4	2.0	2.8	3.5
152.5°	2.0	2.0	1.4	0.6	0.6	0.0	0.0	0.0	0.6	1.4	1.4
155°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.6	0.0	0.6	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)