

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: P240158

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-25)
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-T3-FP
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5671.2 lumens
Efficiency: N/A
Efficacy: 88.6 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: B2 - 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

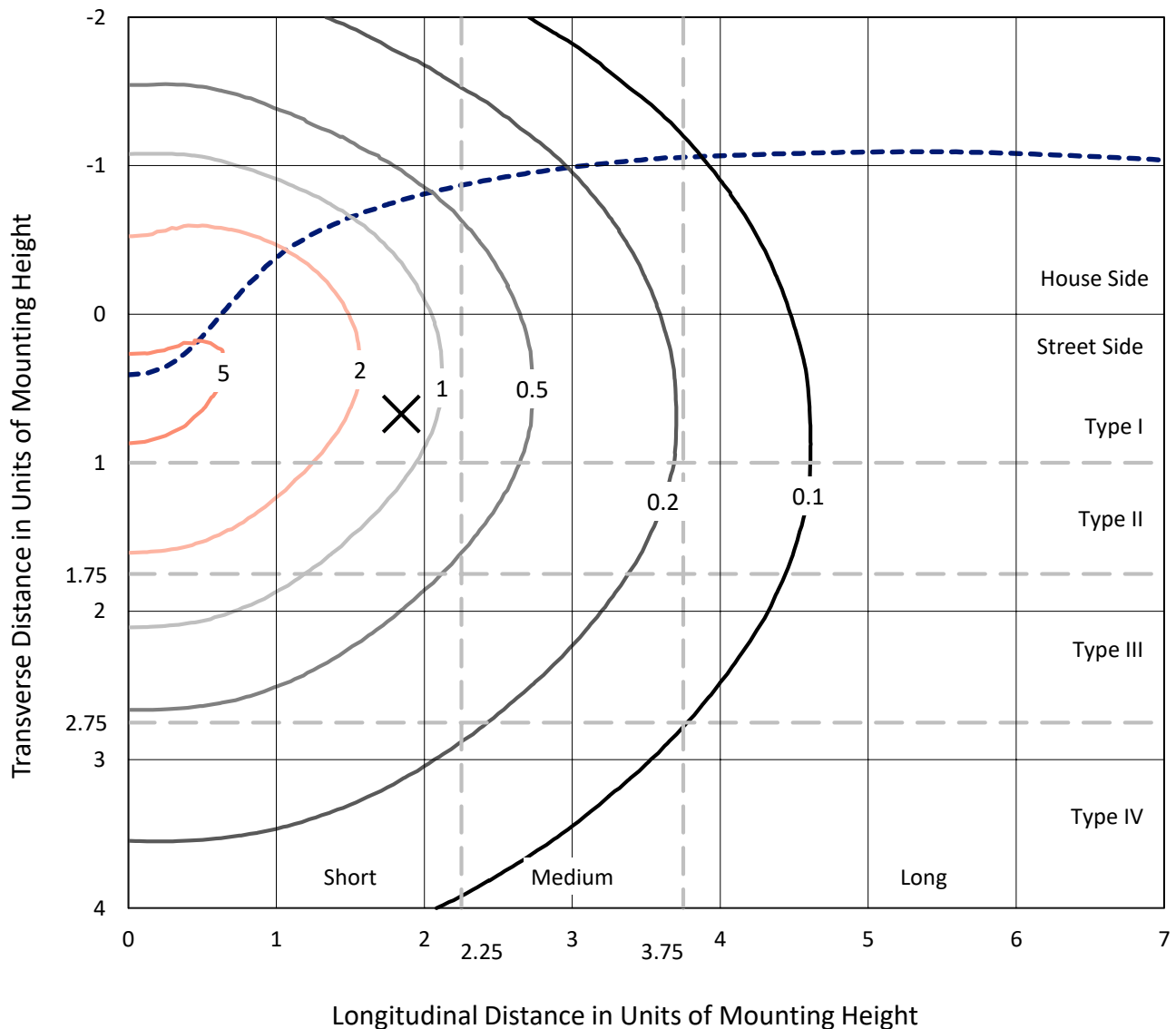


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

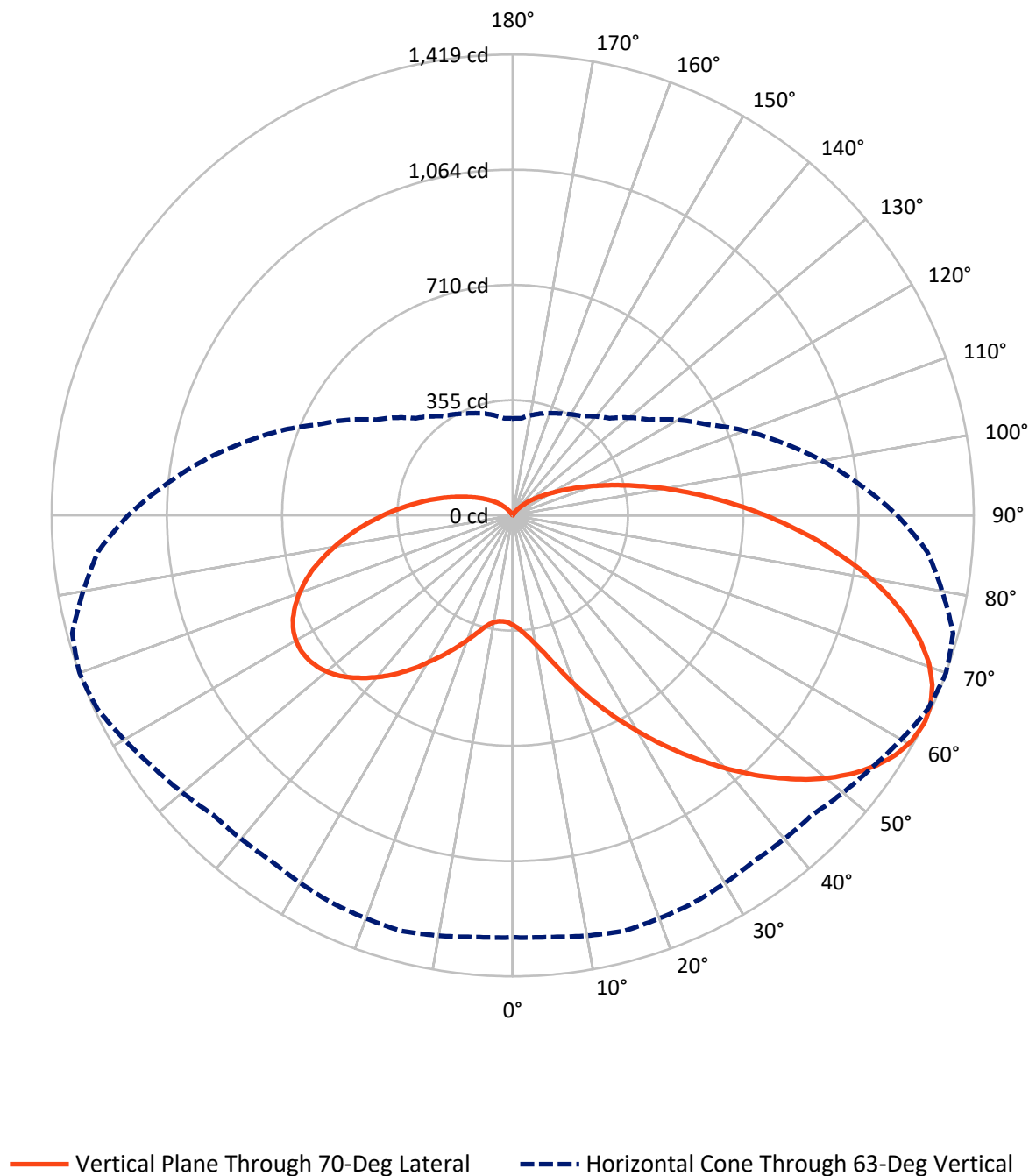


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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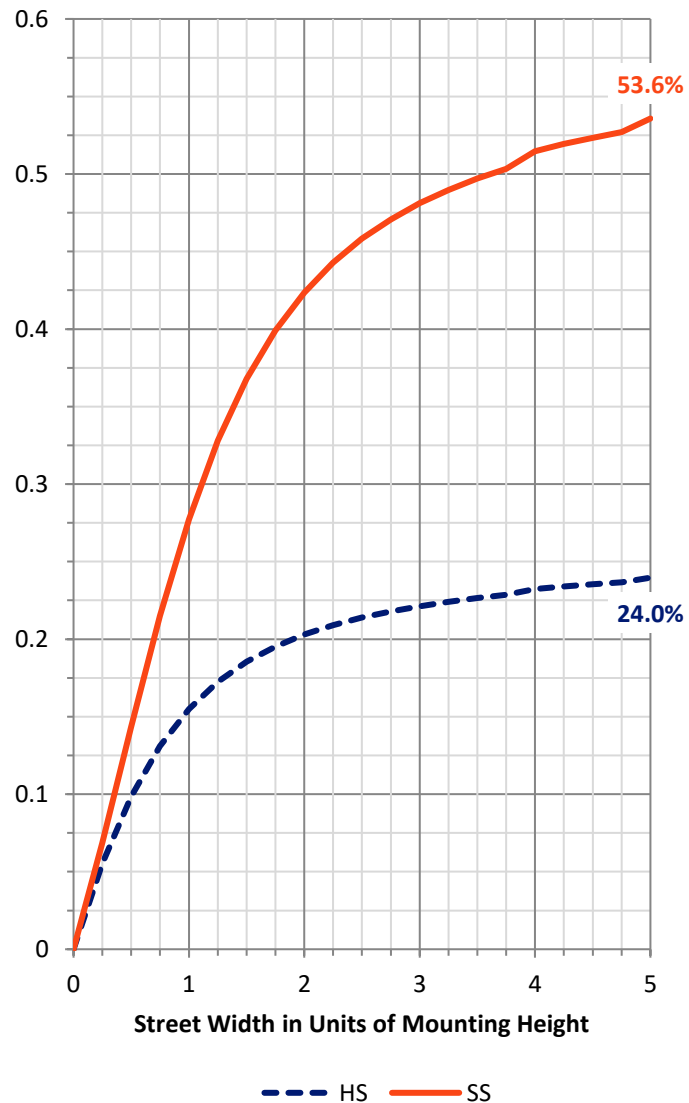
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1449.6	328.1	1777.7
	% Fixture	25.6	5.8	31.3
Street Side	Lumens	3277.0	616.5	3893.5
	% Fixture	57.8	10.9	68.7
Total	Lumens	4726.6	944.7	5671.2
	% Fixture	83.3	16.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.6	0.6
10°-20°	118.3	2.1
20°-30°	254.2	4.5
30°-40°	442.9	7.8
40°-50°	658.1	11.6
50°-60°	840.4	14.8
60°-70°	911.1	16.1
70°-80°	829.7	14.6
80°-90°	638.3	11.3
90°-100°	428.1	7.5
100°-110°	259.5	4.6
110°-120°	144.8	2.6
120°-130°	73.5	1.3
130°-140°	30.5	0.5
140°-150°	7.8	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4726.6	83.3
0°-180°	5671.2	100.0

Coefficient of Utilization



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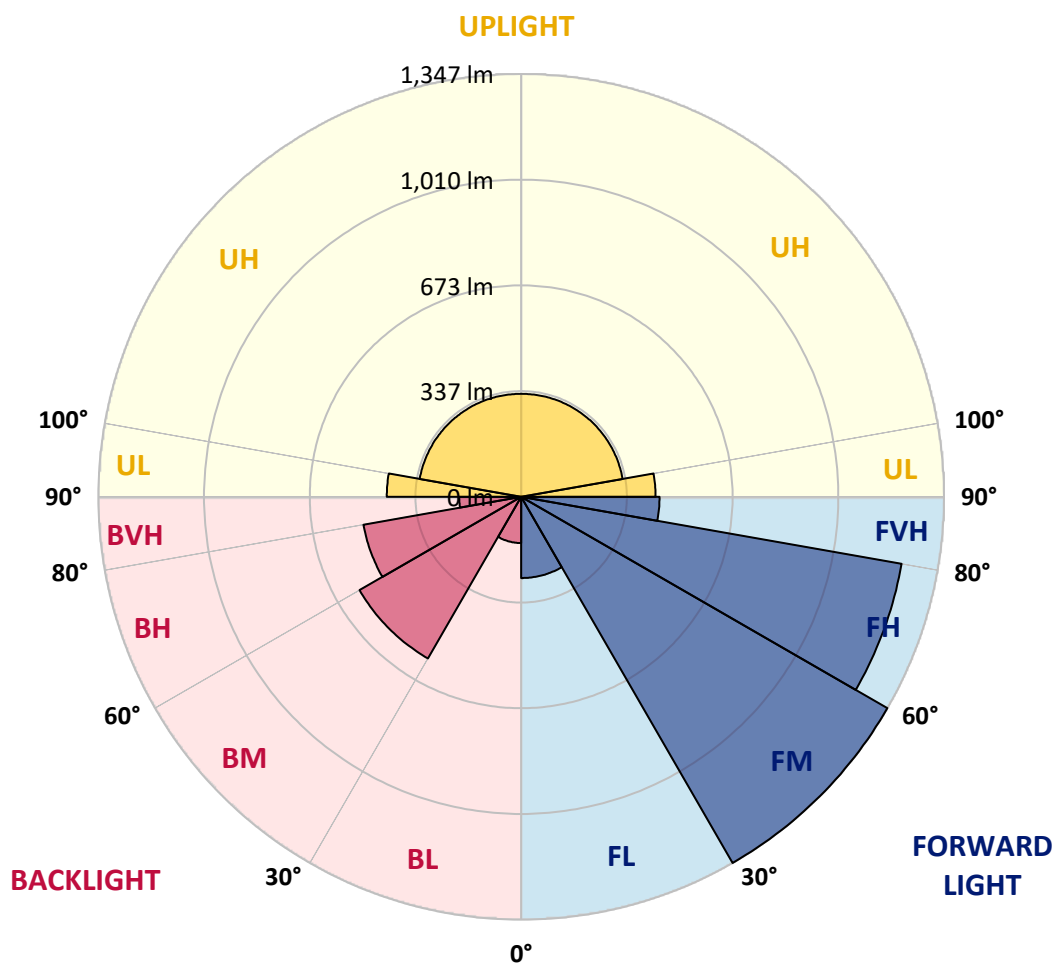
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	258.8	4.6			
FM	(30°-60°)	1347.0	23.8			
FH	(60°-80°)	1230.5	21.7			G1/1800
FVH	(80°-90°)	440.7	7.8			G3/500
BL	(0°-30°)	147.3	2.6	B1/500		
BM	(30°-60°)	594.5	10.5	B1/1000		
BH	(60°-80°)	510.3	9.0	B2/1000		G2/1000
BVH	(80°-90°)	197.6	3.5			G2/225
UL	(90°-100°)	428.1	7.5		U3/500	
UH	(100°-180°)	328.1	5.8		U3/500	

BUG Rating: B2-U4-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4
2.5°	366.0	366.0	365.3	364.5	362.3	359.3	354.9	351.9	348.8	346.6	342.2
5°	397.3	398.8	395.8	394.3	389.1	383.2	376.4	368.3	364.5	359.3	350.4
7.5°	430.9	432.4	429.3	425.6	418.9	410.0	399.6	389.1	382.4	375.7	362.3
10°	468.1	468.9	465.1	460.6	452.5	441.3	430.2	414.5	407.0	398.0	380.1
12.5°	509.8	508.4	505.4	498.0	488.3	476.3	461.5	445.8	435.4	424.9	402.5
15°	557.6	556.8	551.6	542.7	530.7	517.3	499.4	482.3	471.9	460.6	433.8
17.5°	607.5	606.0	600.8	590.3	577.7	560.6	547.2	527.0	514.3	502.4	471.9
20°	657.5	656.7	652.9	641.1	626.9	613.5	595.6	574.7	562.0	545.6	510.7
22.5°	714.8	712.6	706.7	696.2	684.4	670.9	652.2	626.1	612.0	596.4	554.6
25°	772.2	771.5	764.0	752.9	743.2	728.2	710.4	679.9	665.6	644.0	599.3
27.5°	831.9	830.4	823.0	811.0	803.5	789.4	767.0	737.2	720.1	699.2	649.3
30°	893.8	893.0	884.0	872.2	864.0	850.6	827.5	795.3	778.3	755.1	699.2
32.5°	955.6	955.6	946.7	936.3	926.6	909.4	887.8	857.2	838.6	814.0	751.4
35°	1020.5	1016.8	1010.1	1000.3	984.7	967.6	948.2	920.7	901.2	874.4	808.0
37.5°	1081.7	1081.7	1070.4	1062.2	1045.0	1025.7	1007.8	984.7	963.1	937.0	863.2
40°	1142.0	1142.7	1132.3	1121.9	1099.5	1081.7	1066.0	1047.3	1028.0	1001.2	923.6
42.5°	1200.1	1198.7	1189.0	1177.0	1152.5	1132.3	1122.6	1106.9	1092.8	1064.5	981.7
45°	1253.8	1250.0	1242.7	1228.5	1200.1	1180.0	1176.3	1168.8	1153.9	1128.6	1040.6
47.5°	1295.6	1293.3	1290.4	1271.7	1242.7	1223.2	1223.2	1226.2	1215.1	1189.0	1095.8
50°	1329.8	1329.1	1327.6	1306.7	1275.4	1260.5	1266.5	1276.9	1269.5	1246.4	1145.0
52.5°	1353.0	1352.2	1354.5	1332.8	1302.3	1288.8	1303.0	1323.9	1318.0	1297.1	1191.9
55°	1361.9	1361.9	1368.6	1348.5	1318.0	1307.5	1330.6	1359.7	1358.9	1340.3	1227.7
57.5°	1358.2	1358.9	1370.9	1352.2	1323.9	1318.0	1348.5	1388.0	1391.0	1372.4	1257.5
60°	1341.0	1341.8	1358.2	1344.1	1319.4	1318.0	1356.6	1405.1	1411.1	1394.7	1274.7
62.5°	1308.3	1311.2	1331.4	1322.4	1302.3	1307.5	1353.7	1410.3	1418.5	1402.9	1281.3
63°	1299.2	1303.0	1324.6	1316.4	1297.8	1303.8	1351.4	1410.3	1419.3	1403.7	1281.3
65°	1262.7	1267.2	1291.9	1288.1	1274.7	1285.8	1338.8	1402.2	1413.3	1399.2	1274.7
67.5°	1203.9	1212.8	1241.1	1244.1	1237.5	1254.5	1312.8	1381.3	1393.3	1379.8	1254.5
70°	1133.0	1143.5	1180.0	1189.0	1187.4	1212.8	1274.7	1346.2	1358.9	1345.5	1220.3
72.5°	1057.0	1071.2	1104.7	1124.1	1133.8	1161.4	1227.7	1298.5	1311.2	1297.1	1174.8
75°	974.3	989.2	1030.9	1054.8	1069.7	1104.0	1169.5	1240.4	1251.6	1240.4	1117.4
77.5°	891.5	906.4	948.9	979.5	1002.6	1043.6	1108.5	1173.3	1181.5	1169.5	1050.3
80°	806.6	823.7	864.7	900.5	931.8	972.8	1035.4	1094.3	1104.0	1088.3	978.0
82.5°	722.3	737.2	783.5	825.2	858.8	899.8	959.3	1014.6	1019.0	1003.3	898.3
85°	646.3	659.0	704.4	749.2	788.7	828.9	884.0	928.0	934.8	914.6	819.3
87.5°	574.7	584.4	632.1	676.1	716.4	761.1	810.3	845.4	845.4	829.7	736.5
90°	508.4	515.1	558.3	606.8	650.0	689.6	735.7	765.6	761.8	742.5	659.0
92.5°	444.3	452.5	495.0	541.1	585.1	626.1	663.5	683.5	678.3	658.2	584.4
95°	391.4	395.1	436.8	484.6	524.8	562.0	594.8	609.1	600.8	580.7	510.7
97.5°	342.9	345.9	382.4	427.9	471.1	505.4	527.7	536.7	528.6	508.4	450.2
100°	303.4	304.1	337.0	380.9	421.1	451.0	471.1	471.1	463.7	443.6	390.6
102.5°	264.6	266.1	293.0	337.0	374.9	401.0	416.6	415.2	401.8	381.7	339.2
105°	233.3	234.8	255.6	298.2	332.5	356.3	369.0	360.1	347.4	329.5	293.7
107.5°	205.7	206.5	222.9	260.9	293.7	316.1	322.7	313.1	298.9	281.8	256.5



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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	184.1	183.4	196.1	228.8	260.1	278.8	282.5	270.6	256.5	242.2	221.4
112.5°	163.3	163.3	171.4	199.1	228.1	246.0	247.5	230.4	218.4	205.7	192.3
115°	146.1	145.4	151.3	173.0	199.8	214.7	213.2	197.5	186.4	175.9	166.9
117.5°	131.2	129.7	134.2	149.0	173.7	187.8	184.1	166.2	158.0	150.6	145.4
120°	117.7	117.0	119.3	129.7	149.0	160.3	156.5	140.9	133.4	129.7	126.7
122.5°	105.9	105.9	105.1	111.8	126.7	135.6	130.4	117.7	113.3	111.1	111.1
125°	95.4	95.4	93.9	96.2	105.9	113.3	108.8	98.4	95.4	95.4	96.2
127.5°	85.0	85.0	83.5	82.8	87.3	92.5	87.3	81.2	80.5	81.2	82.8
130°	75.3	74.6	73.0	70.1	70.8	73.0	69.4	66.4	67.1	69.4	70.8
132.5°	66.4	65.6	63.3	58.9	56.0	56.0	52.9	52.9	55.1	57.4	60.4
135°	57.4	56.7	54.4	49.2	44.0	41.0	38.8	41.7	44.7	47.0	49.9
137.5°	48.5	47.7	44.7	39.5	32.8	28.3	27.6	32.0	35.0	38.1	40.3
140°	39.5	38.8	35.8	30.6	23.1	17.9	17.9	23.8	26.8	29.1	32.0
142.5°	31.3	30.6	28.3	22.4	14.9	11.2	12.0	17.2	19.3	21.6	23.8
145°	23.1	23.1	20.9	15.7	8.9	5.2	6.8	11.2	13.4	14.9	17.2
147.5°	15.7	15.7	13.4	9.7	5.2	2.3	3.0	6.8	8.2	9.7	11.2
150°	9.7	9.7	8.2	5.2	2.3	0.0	1.5	3.0	4.5	5.2	6.8
152.5°	5.2	5.2	3.7	2.3	0.7	0.0	0.0	1.5	1.5	2.3	3.0
155°	2.3	1.5	1.5	0.7	0.0	0.0	0.0	0.0	0.7	0.7	0.7
157.5°	0.7	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4
2.5°	339.9	337.7	332.5	328.8	324.3	320.5	318.3	314.6	312.3	313.1	312.3
5°	345.9	341.4	331.7	323.6	314.6	307.1	301.2	295.9	293.0	290.7	291.4
7.5°	355.6	348.8	334.7	321.3	307.9	296.7	287.8	281.0	275.1	273.5	272.8
10°	370.5	361.5	341.4	323.6	306.4	290.7	278.8	269.1	263.1	260.1	260.1
12.5°	391.4	378.7	353.3	329.5	307.9	288.5	273.5	261.7	254.9	252.0	251.2
15°	420.4	404.8	373.5	341.4	313.8	290.7	272.8	260.9	255.6	254.2	253.5
17.5°	454.0	436.8	398.0	360.8	325.7	296.7	279.6	269.9	263.9	260.9	260.1
20°	491.9	469.6	425.6	382.4	342.9	312.3	293.0	279.6	272.1	268.3	267.6
22.5°	530.7	506.2	455.4	405.5	362.3	334.0	306.4	290.0	279.6	275.1	273.5
25°	572.4	544.9	486.0	430.2	386.2	354.0	322.7	298.9	287.0	281.8	281.8
27.5°	617.2	585.1	518.1	455.4	410.7	372.8	338.4	308.6	294.4	288.5	287.8
30°	664.2	628.4	550.9	483.0	433.8	389.8	351.9	319.1	301.9	295.2	294.4
32.5°	714.8	673.9	587.4	512.9	455.4	405.5	363.8	328.8	308.6	300.4	299.6
35°	764.9	718.6	621.6	542.0	474.9	418.9	373.5	338.4	313.8	305.7	304.8
37.5°	820.0	766.3	658.2	570.3	492.8	429.3	381.7	345.9	319.1	310.1	308.6
40°	872.9	813.2	692.5	595.6	507.7	439.1	388.4	352.6	323.6	313.8	312.3
42.5°	925.1	861.0	726.8	619.5	520.3	445.0	392.8	357.1	328.0	316.8	314.6
45°	977.2	905.7	761.8	638.8	530.0	450.2	395.8	360.8	331.7	318.3	316.8
47.5°	1025.7	949.7	793.9	656.0	536.7	452.5	397.3	362.3	334.7	319.1	316.8
50°	1072.0	987.7	820.7	668.7	541.1	452.5	397.3	363.0	336.1	319.1	317.5
52.5°	1112.2	1020.5	842.3	676.9	542.0	450.2	395.1	362.3	336.1	317.5	315.3
55°	1142.7	1047.3	857.9	680.6	539.7	446.5	391.4	360.1	335.4	315.3	313.1
57.5°	1167.4	1066.0	867.7	679.9	534.5	440.6	386.9	357.1	333.2	311.6	309.3
60°	1182.2	1075.6	869.2	674.6	527.0	433.1	380.9	352.6	330.2	307.9	304.8
62.5°	1184.5	1074.9	864.0	664.2	515.9	424.1	373.5	346.6	325.0	301.9	298.9
63°	1183.8	1074.2	861.0	662.0	513.6	422.7	372.8	345.9	324.3	300.4	298.2
65°	1175.6	1065.2	849.8	650.0	503.2	413.7	366.0	339.9	319.8	295.9	292.3
67.5°	1153.9	1045.0	828.9	629.9	487.5	401.8	356.3	332.5	312.3	288.5	284.8
70°	1121.2	1016.8	800.6	607.5	471.1	389.1	345.9	322.7	304.1	280.3	275.8
72.5°	1077.2	975.8	767.8	581.4	451.7	374.9	334.0	312.3	293.7	271.3	264.6
75°	1024.2	928.0	731.3	553.1	430.9	360.1	322.0	301.9	283.3	260.9	254.2
77.5°	960.9	873.6	685.8	523.3	410.7	344.4	308.6	289.2	271.3	249.0	242.2
80°	893.0	813.2	640.4	489.8	388.4	328.0	295.2	275.8	257.9	237.0	228.8
82.5°	821.4	748.4	591.9	457.7	366.0	310.9	281.0	261.7	244.5	224.3	217.0
85°	749.2	683.5	544.9	425.6	342.9	294.4	266.1	248.3	229.6	210.2	202.7
87.5°	677.6	620.2	499.4	392.1	321.3	278.0	251.2	233.3	214.7	196.1	190.1
90°	609.1	559.0	451.7	360.8	298.9	260.1	236.3	218.4	200.5	181.9	175.9
92.5°	540.4	497.2	408.5	332.5	278.0	243.8	221.4	203.5	184.8	166.9	163.3
95°	479.4	442.0	367.5	301.9	257.9	228.1	206.5	189.3	169.9	152.8	150.6
97.5°	421.9	389.8	327.2	275.8	237.8	210.9	191.6	173.7	154.3	138.6	137.2
100°	370.5	344.4	293.0	249.0	217.7	195.3	177.4	159.5	140.1	126.7	125.2
102.5°	323.6	302.7	260.9	225.2	199.8	179.6	161.7	144.6	126.0	114.1	114.1
105°	283.3	264.6	231.1	202.7	181.2	163.3	146.9	129.7	111.1	101.4	101.4
107.5°	245.2	232.6	205.0	181.2	164.0	148.3	132.7	115.5	97.7	90.2	90.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	213.9	203.5	180.3	162.5	148.3	134.2	119.3	102.1	85.0	79.8	80.5
112.5°	186.4	178.2	158.8	144.6	132.7	120.8	105.9	88.7	73.8	70.8	71.6
115°	162.5	155.8	140.9	128.2	118.6	107.3	93.9	76.8	64.1	62.6	62.6
117.5°	141.7	136.5	123.8	114.1	105.1	95.4	82.0	66.4	55.1	55.1	55.1
120°	124.5	120.0	109.6	100.7	93.2	83.5	70.8	56.0	47.7	48.5	48.5
122.5°	108.1	105.1	95.4	88.7	81.2	73.0	60.4	46.2	41.0	42.5	43.3
125°	94.6	91.7	84.2	76.8	70.1	61.9	49.9	38.8	35.8	37.2	37.2
127.5°	81.2	79.8	73.0	66.4	60.4	52.2	41.0	32.0	31.3	32.8	32.8
130°	70.1	68.5	63.3	56.0	49.9	42.5	32.8	26.1	26.1	27.6	27.6
132.5°	59.6	58.9	53.7	47.0	41.0	33.6	26.1	20.9	22.4	23.8	23.8
135°	49.2	49.2	44.7	38.1	32.0	25.4	19.3	17.2	18.6	20.2	20.2
137.5°	40.3	39.5	35.8	29.8	23.8	18.6	14.1	13.4	15.7	17.2	17.2
140°	32.0	31.3	28.3	23.1	17.2	12.7	9.7	10.4	12.7	13.4	14.1
142.5°	23.8	23.8	20.9	17.2	11.2	7.5	5.9	8.2	9.7	10.4	11.2
145°	17.2	17.2	14.9	11.2	6.8	3.7	3.7	5.9	7.5	8.2	8.2
147.5°	11.2	11.2	9.7	6.8	3.7	1.5	2.3	3.7	5.2	5.9	5.9
150°	6.8	5.9	5.2	3.0	1.5	0.0	0.7	1.5	3.0	3.7	3.0
152.5°	3.0	3.0	2.3	1.5	0.7	0.0	0.0	0.0	0.7	1.5	1.5
155°	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	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)