

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: P240257

Luminaire Tested: **UTLD-AF24-60-D-U-SL3-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-27)
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-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5174.5 lumens
Efficiency: N/A
Efficacy: 80.9 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 - 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



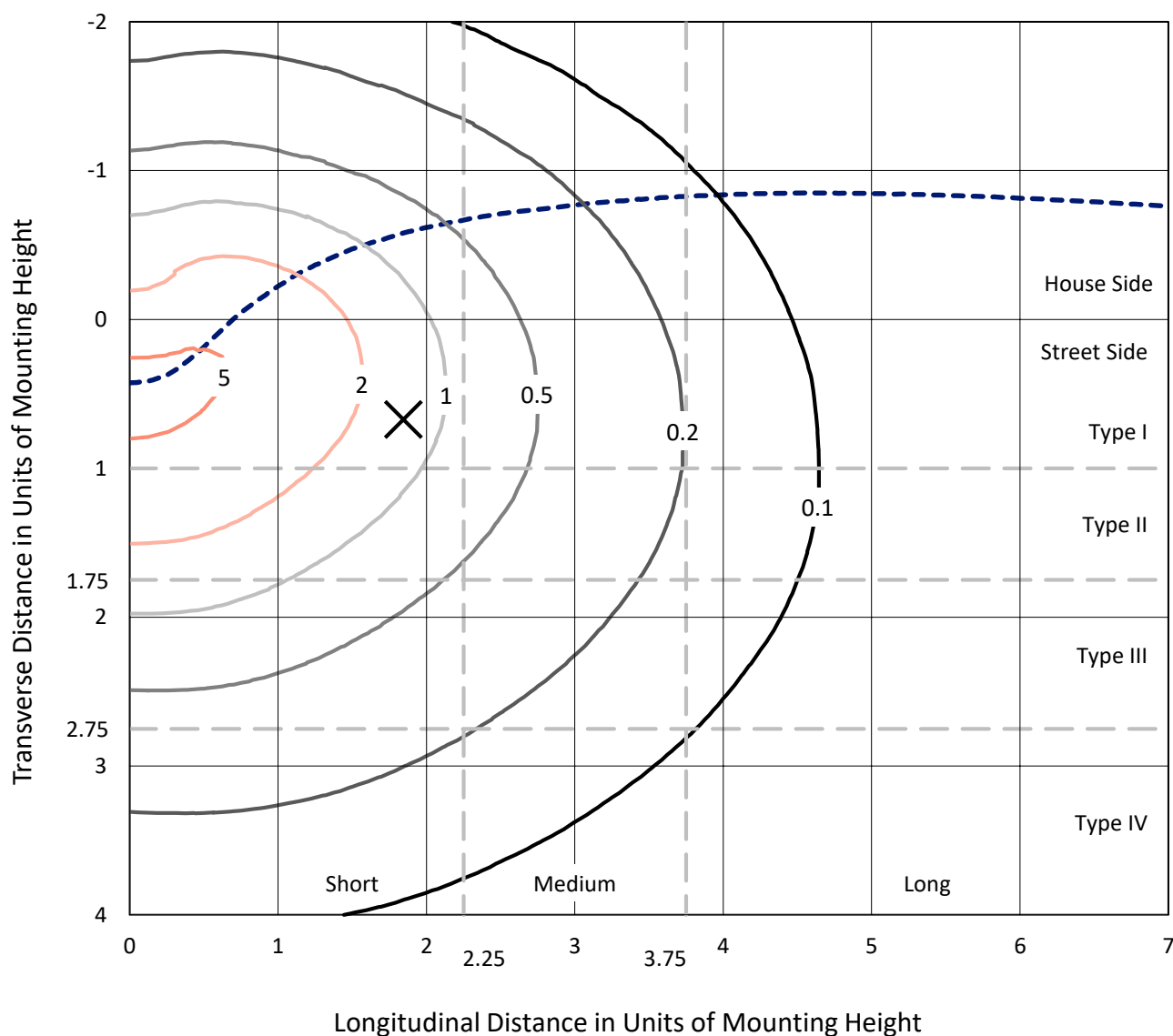
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

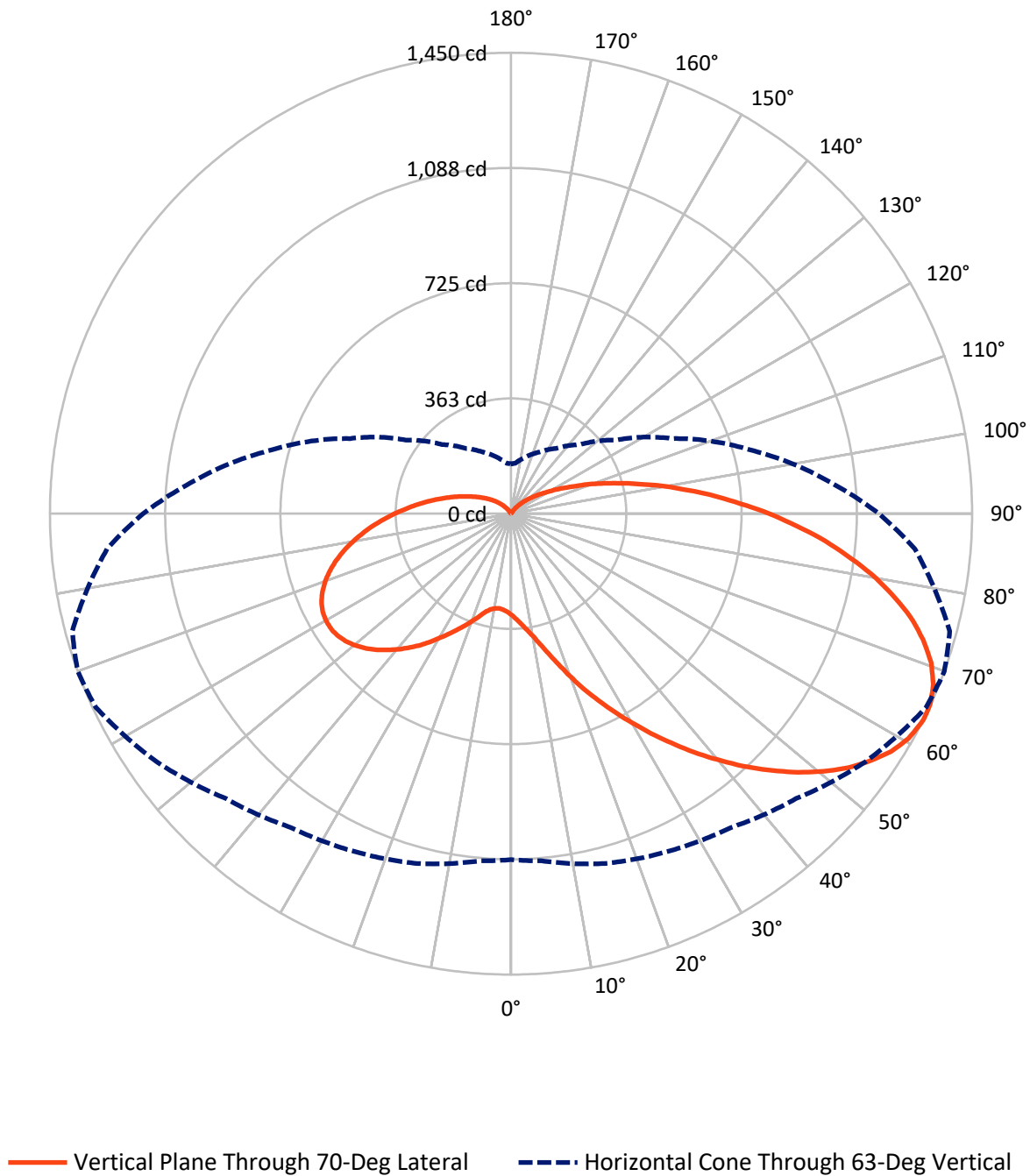


Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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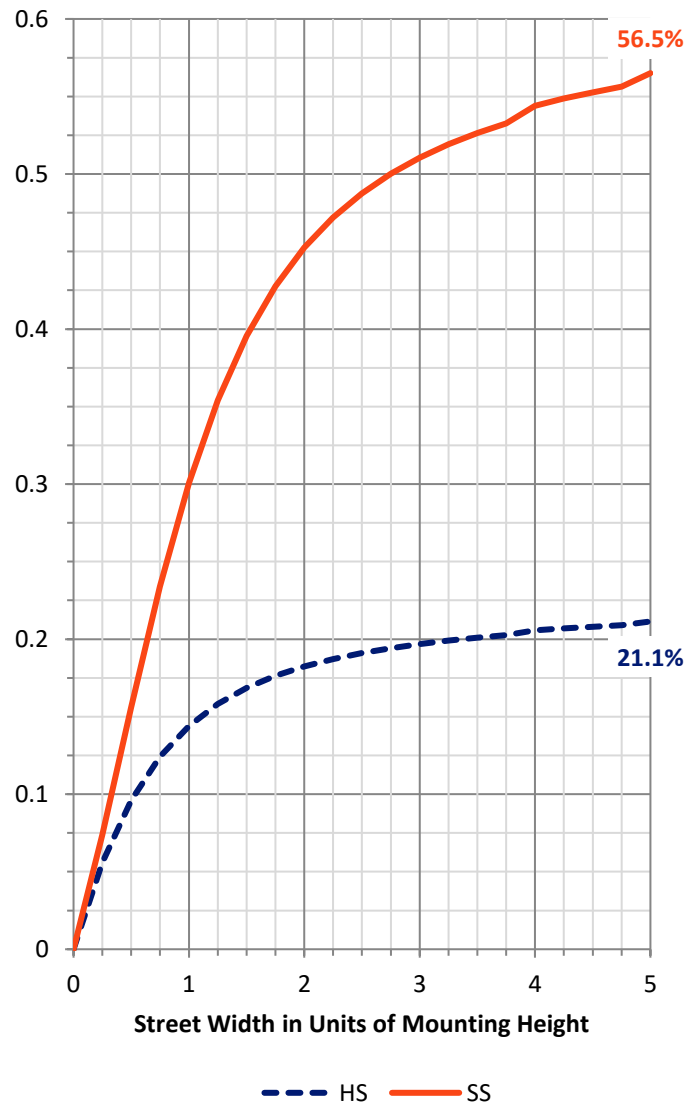
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1162.2	281.2	1443.4
	% Fixture	22.5	5.4	27.9
Street Side	Lumens	3141.5	589.6	3731.1
	% Fixture	60.7	11.4	72.1
Total	Lumens	4303.7	870.8	5174.5
	% Fixture	83.2	16.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.7	0.6
10°-20°	110.5	2.1
20°-30°	234.9	4.5
30°-40°	405.0	7.8
40°-50°	597.4	11.5
50°-60°	760.3	14.7
60°-70°	825.3	15.9
70°-80°	754.7	14.6
80°-90°	583.8	11.3
90°-100°	393.4	7.6
100°-110°	239.4	4.6
110°-120°	134.1	2.6
120°-130°	68.3	1.3
130°-140°	28.2	0.5
140°-150°	7.0	0.1
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4303.7	83.2
0°-180°	5174.5	100.0

Coefficient of Utilization



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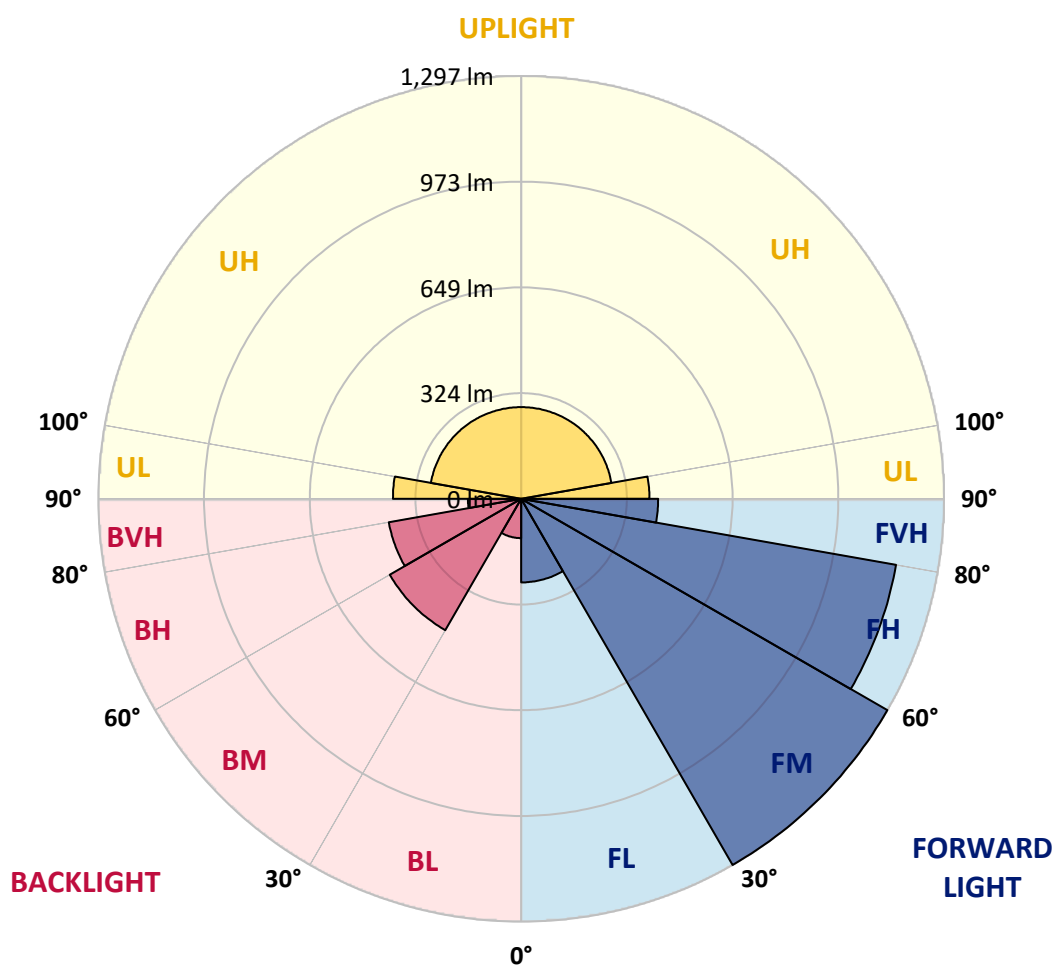
CATALOG NUMBER: UTLD-AF24-60-D-U-SL3-FP-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	256.4	5.0			
FM	(30°-60°)	1297.2	25.1			
FH	(60°-80°)	1167.7	22.6			G1/1800
FVH	(80°-90°)	420.3	8.1			G3/500
BL	(0°-30°)	120.7	2.3	B1/500		
BM	(30°-60°)	465.6	9.0	B1/1000		
BH	(60°-80°)	412.4	8.0	B1/500		G1/500
BVH	(80°-90°)	163.5	3.2			G2/225
UL	(90°-100°)	393.4	7.6		U3/500	
UH	(100°-180°)	281.2	5.4		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	319.2	319.2	319.2	319.2	319.2	319.2	319.2	319.2	319.2	319.2	319.2
2.5°	355.8	355.2	354.4	350.9	349.5	344.6	340.4	335.4	332.7	329.9	324.2
5°	393.3	391.8	389.7	386.2	379.9	372.8	364.4	354.4	349.5	343.9	332.7
7.5°	429.9	429.2	428.6	421.4	415.0	403.8	391.8	377.7	370.7	361.5	344.6
10°	470.1	471.5	467.3	460.8	450.3	438.3	422.9	403.8	394.7	384.8	362.2
12.5°	515.9	515.1	511.7	501.1	489.8	476.4	457.4	436.9	426.3	413.0	384.0
15°	562.3	559.6	555.4	548.3	534.2	518.7	498.2	474.9	463.0	448.2	415.8
17.5°	611.0	608.9	606.1	594.2	582.2	563.1	546.2	520.8	506.0	489.8	452.5
20°	659.6	658.3	654.7	645.5	630.8	613.8	597.6	570.9	554.0	534.2	491.8
22.5°	711.1	710.4	706.9	696.3	684.3	673.7	653.3	623.0	606.8	582.8	533.5
25°	763.9	764.7	758.3	748.4	740.0	730.1	709.0	677.3	657.5	632.8	577.2
27.5°	821.1	818.3	814.0	804.8	797.8	786.4	764.7	732.2	713.3	686.4	624.4
30°	873.8	874.6	865.5	859.8	854.9	844.2	823.9	790.7	769.6	744.9	673.7
32.5°	931.0	928.1	921.8	916.1	912.7	901.4	882.4	853.5	832.3	801.3	723.8
35°	981.0	980.3	973.3	974.7	965.6	956.3	942.3	915.5	893.6	864.0	779.4
37.5°	1032.5	1031.1	1026.2	1027.5	1016.9	1009.9	1000.7	977.6	959.2	928.8	837.3
40°	1081.1	1077.6	1074.0	1076.2	1068.4	1063.4	1058.5	1042.4	1023.3	991.6	894.3
42.5°	1120.6	1119.8	1117.7	1121.2	1113.5	1112.1	1114.9	1106.5	1089.6	1057.1	952.0
45°	1154.5	1154.5	1157.2	1159.4	1152.2	1154.5	1168.5	1166.4	1153.0	1120.6	1012.1
47.5°	1181.2	1180.4	1187.5	1190.3	1186.8	1194.5	1217.8	1227.6	1216.4	1186.1	1067.7
50°	1196.7	1196.7	1209.4	1212.9	1213.6	1228.4	1260.9	1282.6	1274.9	1246.0	1120.6
52.5°	1200.9	1202.3	1219.9	1227.6	1230.5	1253.8	1298.1	1331.4	1328.5	1301.0	1168.5
55°	1193.8	1196.0	1219.3	1231.3	1239.6	1272.1	1327.7	1374.3	1372.2	1346.7	1208.0
57.5°	1174.1	1176.9	1206.5	1224.1	1239.6	1281.9	1349.6	1408.2	1410.9	1386.9	1241.7
60°	1143.1	1146.6	1182.6	1205.7	1229.8	1281.3	1360.9	1429.9	1436.3	1411.6	1264.3
62.5°	1100.1	1104.4	1145.9	1178.4	1210.8	1271.3	1361.6	1440.5	1449.0	1427.2	1274.9
63°	1088.9	1096.6	1139.6	1172.1	1205.7	1267.9	1360.9	1441.2	1450.4	1428.6	1275.6
65°	1045.2	1053.6	1103.0	1141.0	1181.8	1251.7	1351.0	1437.8	1449.0	1427.8	1272.1
67.5°	983.9	995.2	1047.2	1093.8	1145.9	1222.7	1329.1	1420.1	1432.7	1412.2	1256.6
70°	914.1	929.6	984.5	1042.4	1100.1	1184.0	1295.4	1389.8	1401.8	1380.6	1225.6
72.5°	843.6	860.5	920.4	982.5	1047.2	1136.1	1248.1	1344.0	1355.3	1336.9	1182.6
75°	772.4	785.1	847.1	919.0	989.5	1080.3	1196.0	1285.4	1298.1	1276.2	1128.9
77.5°	697.0	714.7	778.8	851.3	926.7	1023.3	1133.9	1218.5	1226.2	1204.4	1060.0
80°	623.0	642.8	705.5	783.7	863.3	956.3	1062.1	1144.5	1148.8	1125.5	985.9
82.5°	558.2	576.5	640.6	715.9	796.4	891.5	988.0	1058.5	1061.4	1039.5	909.1
85°	495.5	511.7	572.9	650.5	731.5	819.7	912.0	971.9	975.3	949.3	828.0
87.5°	439.1	451.8	510.9	588.5	667.3	754.1	830.9	880.9	881.6	856.3	747.8
90°	390.4	398.1	455.9	532.1	606.8	684.3	756.2	799.9	794.2	767.4	664.7
92.5°	343.2	349.5	402.4	476.4	550.4	620.1	682.9	711.1	704.7	681.4	590.5
95°	305.2	308.0	356.6	426.3	492.6	558.9	612.4	632.8	626.5	601.9	517.3
97.5°	266.4	270.6	315.0	378.5	442.6	502.5	546.2	559.6	547.6	523.7	453.2
100°	237.5	239.0	276.3	336.8	397.4	449.6	484.1	492.6	479.9	458.2	394.7
102.5°	210.8	210.0	243.8	300.3	354.4	398.1	427.7	427.1	413.6	394.7	342.5
105°	187.5	186.8	212.8	265.0	313.6	352.4	374.2	371.4	358.1	339.7	298.1
107.5°	165.6	167.0	186.1	231.8	275.6	310.1	326.2	319.9	308.0	291.0	258.6



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CATALOG NUMBER: UTLD-AF24-60-D-U-SL3-FP-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	149.3	149.3	164.2	203.7	243.8	272.0	284.7	275.6	264.3	247.4	223.4
112.5°	134.6	134.6	145.2	177.5	214.2	239.6	248.0	236.1	222.7	211.4	193.8
115°	121.2	121.2	128.3	154.4	186.8	207.9	212.8	200.2	188.9	180.4	169.2
117.5°	110.0	110.0	114.1	132.5	161.3	181.2	184.0	169.9	162.1	153.6	147.3
120°	99.3	100.1	101.5	113.4	137.4	154.4	155.8	142.4	136.0	131.7	128.3
122.5°	90.2	90.2	90.9	98.0	117.0	131.1	131.1	119.8	115.6	114.1	111.3
125°	81.7	81.7	81.7	84.5	97.2	108.5	107.1	100.1	98.0	98.0	96.5
127.5°	74.0	73.3	72.5	73.3	79.6	87.4	87.4	82.5	82.5	83.1	83.9
130°	66.2	65.5	64.1	62.8	63.5	69.1	68.4	66.9	68.4	70.5	71.9
132.5°	58.5	58.5	56.4	52.9	50.7	52.1	52.9	53.5	55.7	58.5	60.6
135°	50.7	50.7	48.6	43.7	39.5	38.8	38.0	41.6	45.2	48.0	50.0
137.5°	42.9	42.9	40.9	35.3	29.6	26.8	26.1	31.6	35.3	38.0	40.2
140°	35.9	35.3	33.1	27.6	21.2	16.9	16.9	22.5	26.1	28.9	31.6
142.5°	28.2	28.2	26.1	21.2	14.1	9.9	10.6	15.6	18.3	20.4	22.5
145°	21.2	21.2	19.0	14.1	8.4	4.9	5.7	9.9	12.0	14.1	16.2
147.5°	14.7	14.7	12.7	9.2	4.3	1.4	2.8	5.7	7.1	8.4	9.9
150°	9.2	9.2	7.7	4.9	2.0	0.0	0.6	2.8	3.5	4.3	5.7
152.5°	4.9	4.9	3.5	2.0	0.6	0.0	0.0	0.6	1.4	2.0	2.8
155°	2.0	2.0	1.4	0.6	0.0	0.0	0.0	0.0	0.0	0.6	0.6
157.5°	0.6	0.6	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°	319.2	319.2	319.2	319.2	319.2	319.2	319.2	319.2	319.2	319.2	319.2
2.5°	321.3	318.6	312.2	306.6	301.7	296.7	292.5	289.0	288.2	286.2	286.8
5°	326.2	320.6	308.6	298.1	286.8	277.6	270.6	264.3	259.4	257.2	256.5
7.5°	336.2	327.0	308.6	291.7	276.3	262.1	250.2	241.0	235.4	231.8	232.6
10°	350.2	338.2	313.6	290.4	268.6	249.4	234.0	222.7	214.2	210.8	210.8
12.5°	368.5	354.4	322.8	292.5	265.0	241.0	221.2	207.1	199.4	194.5	194.5
15°	398.1	377.7	338.2	299.5	265.0	236.1	214.2	198.8	191.6	188.2	187.5
17.5°	429.9	407.3	360.1	313.6	271.3	235.4	213.5	200.2	191.6	187.5	187.5
20°	464.5	437.7	383.4	329.9	281.9	243.8	219.2	203.0	192.4	186.8	186.1
22.5°	501.8	472.2	408.1	346.8	294.6	258.0	226.2	205.1	192.4	186.8	186.1
25°	543.3	507.4	433.4	365.8	311.5	270.6	234.7	207.9	192.4	185.3	184.6
27.5°	585.6	545.5	461.6	384.0	329.1	282.7	242.4	210.0	192.4	184.6	184.0
30°	631.4	583.6	489.1	405.3	345.4	293.2	248.8	212.2	192.4	184.0	183.2
32.5°	676.6	625.1	518.7	429.2	360.9	301.7	254.5	216.4	193.1	183.2	181.8
35°	726.6	669.5	550.4	453.2	375.0	309.4	259.4	219.2	192.4	181.8	181.2
37.5°	778.8	713.3	579.3	474.3	386.2	315.0	262.1	221.2	192.4	181.2	179.7
40°	830.9	757.6	610.3	495.5	396.7	319.9	265.0	223.4	191.6	179.7	178.3
42.5°	881.6	801.3	640.6	513.1	405.3	323.5	266.4	224.8	191.6	178.3	176.9
45°	933.8	845.6	672.4	530.0	411.6	324.9	266.4	224.8	192.4	176.9	175.5
47.5°	983.9	887.3	701.2	543.3	416.5	325.6	266.4	224.8	192.4	175.5	173.4
50°	1028.2	925.3	725.2	554.6	419.3	325.6	265.7	224.8	192.4	173.4	171.2
52.5°	1071.2	958.4	747.8	562.3	420.7	324.2	264.3	223.4	192.4	171.2	169.2
55°	1105.7	988.0	763.2	567.3	419.3	322.1	261.4	222.1	191.6	169.2	166.3
57.5°	1133.2	1009.2	775.2	568.7	416.5	318.6	258.6	219.8	190.3	166.3	164.2
60°	1150.8	1021.1	778.8	566.0	412.2	313.6	255.1	217.8	188.2	163.5	160.7
62.5°	1157.2	1025.4	777.4	560.3	405.9	308.6	251.7	214.9	186.1	159.9	157.2
63°	1157.2	1024.8	776.7	558.9	403.8	307.2	250.9	214.2	185.3	159.3	156.5
65°	1153.0	1019.1	769.6	550.4	397.4	302.3	247.4	211.4	184.0	157.2	153.6
67.5°	1135.3	1004.3	753.4	537.8	386.9	295.3	241.7	207.1	180.4	153.6	150.1
70°	1107.2	978.9	731.5	520.8	375.7	287.6	236.1	203.0	176.9	150.1	145.9
72.5°	1065.6	943.7	704.0	501.1	362.2	279.0	229.8	198.1	172.0	145.9	141.0
75°	1014.2	900.7	671.6	478.5	348.9	269.3	223.4	192.4	167.0	141.7	135.3
77.5°	953.5	850.6	634.2	455.3	333.3	259.4	215.7	186.1	162.1	137.4	129.7
80°	885.9	791.5	594.2	429.2	317.2	248.8	207.9	179.7	155.0	131.7	124.0
82.5°	818.3	732.2	551.9	402.4	300.9	238.1	199.4	172.6	148.7	126.2	118.4
85°	744.9	670.2	510.2	375.0	284.0	226.2	190.9	164.9	142.4	120.5	112.1
87.5°	674.4	607.5	464.5	348.1	267.8	215.7	182.6	157.2	134.6	113.4	107.1
90°	606.1	547.6	425.0	320.6	250.2	203.7	173.4	148.7	126.8	106.4	101.5
92.5°	539.8	487.0	382.0	295.3	234.0	192.4	163.5	140.3	119.1	100.1	95.8
95°	477.8	434.1	346.1	269.9	218.5	181.2	154.4	132.5	110.7	92.4	89.5
97.5°	419.3	384.0	310.9	248.0	201.6	169.9	144.4	123.4	102.1	85.2	83.9
100°	370.0	339.7	277.6	225.5	186.8	158.5	135.3	114.1	93.8	78.2	78.2
102.5°	323.5	296.7	246.7	204.5	172.0	146.6	124.8	105.0	85.2	71.9	71.9
105°	282.7	260.8	220.6	185.3	157.9	135.3	114.8	95.8	76.2	65.5	65.5
107.5°	245.3	228.4	195.9	167.7	143.7	123.4	105.0	86.0	66.9	59.2	59.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	214.9	201.6	174.0	150.1	130.3	113.4	95.8	76.8	58.5	53.5	53.5
112.5°	186.1	175.5	153.6	135.3	118.4	102.9	86.0	67.6	51.5	48.6	48.6
115°	162.8	154.4	136.0	120.5	106.4	92.4	76.2	58.5	44.4	42.9	43.7
117.5°	142.4	135.3	121.2	108.5	95.8	82.5	67.6	50.0	38.8	38.8	38.8
120°	124.0	119.1	106.4	95.8	85.2	72.5	58.5	42.3	33.9	33.9	34.5
122.5°	109.3	104.4	95.2	84.5	74.8	63.5	50.0	35.3	29.6	30.3	31.0
125°	94.4	91.7	83.1	74.0	64.8	53.5	41.6	28.9	26.1	26.8	27.6
127.5°	82.5	80.3	71.9	64.1	55.7	45.2	33.9	23.3	21.9	23.3	23.9
130°	70.5	69.1	62.8	54.9	46.6	37.3	26.8	19.0	19.0	20.4	20.4
132.5°	59.9	58.5	52.9	45.2	38.0	28.9	20.4	15.6	16.2	17.6	17.6
135°	50.0	48.6	43.7	37.3	29.6	21.9	15.6	12.7	14.1	14.7	14.7
137.5°	40.9	39.5	35.3	28.9	21.9	15.6	11.3	9.9	11.3	12.7	12.7
140°	31.0	31.0	27.6	21.9	15.6	10.6	7.7	7.7	9.2	9.9	9.9
142.5°	23.3	22.5	20.4	15.6	9.9	6.3	4.9	5.7	7.1	7.7	7.7
145°	16.2	15.6	14.1	10.6	5.7	3.5	2.8	4.3	4.9	5.7	5.7
147.5°	10.6	9.9	9.2	6.3	2.8	1.4	1.4	2.8	3.5	4.3	4.3
150°	5.7	5.7	4.9	2.8	1.4	0.0	0.6	1.4	2.0	2.0	2.0
152.5°	2.8	2.8	2.0	1.4	0.6	0.0	0.0	0.0	0.6	0.6	0.6
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°	0.0	0.0	0.0	0.6	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	0.6	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)