

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: P240212

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240212
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 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: 5632.4 lumens
Efficiency: N/A
Efficacy: 88.0 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



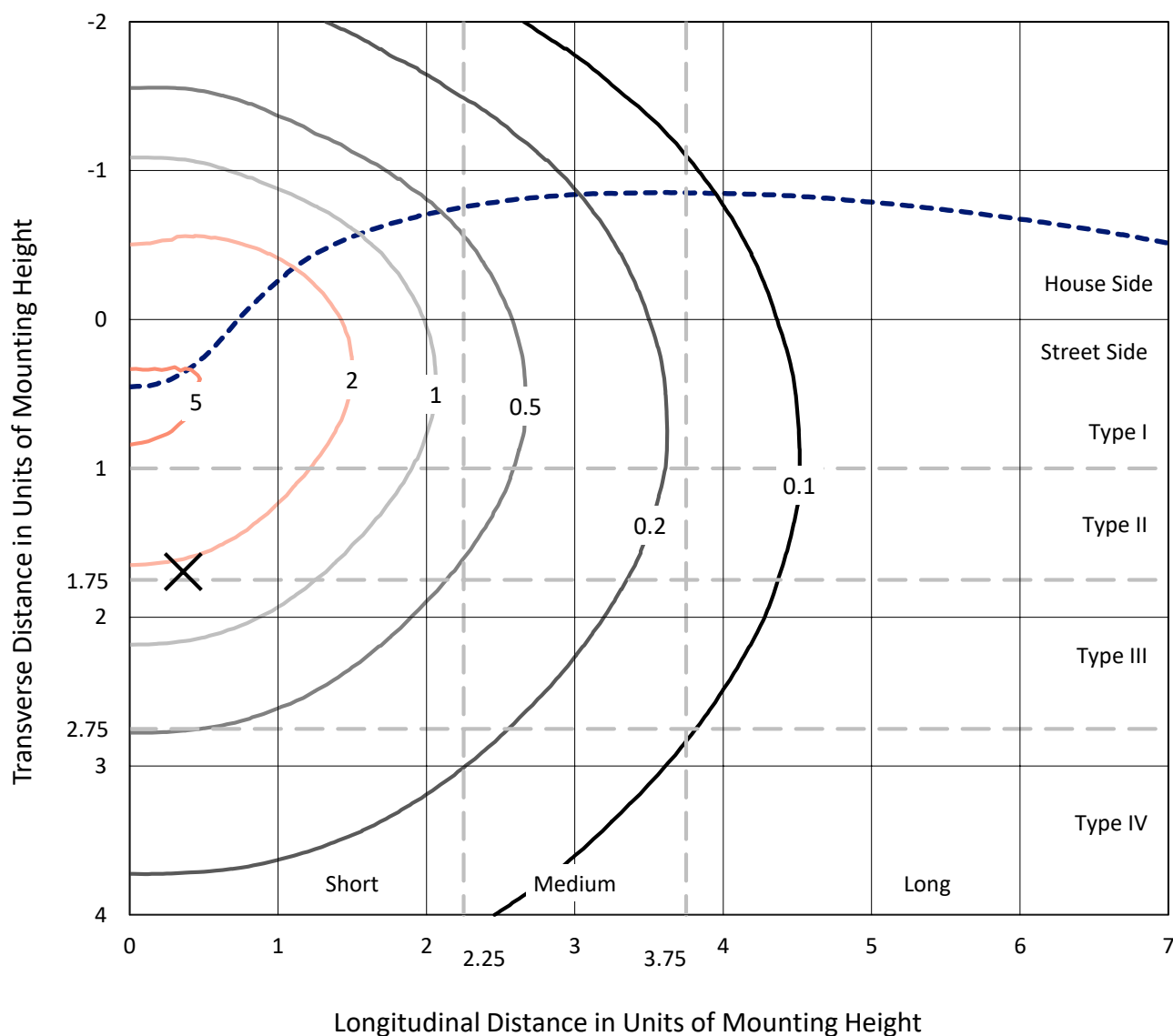
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

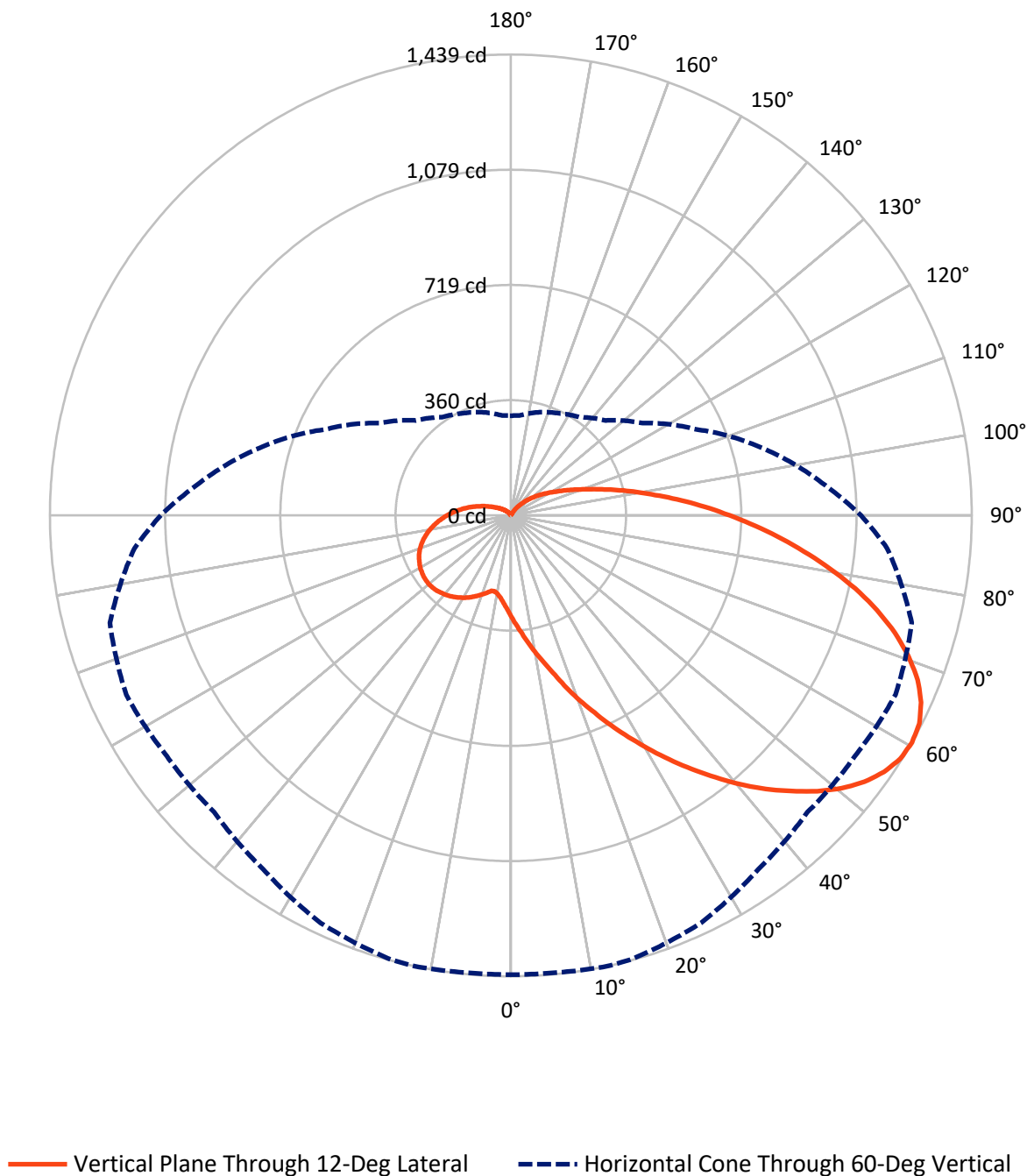


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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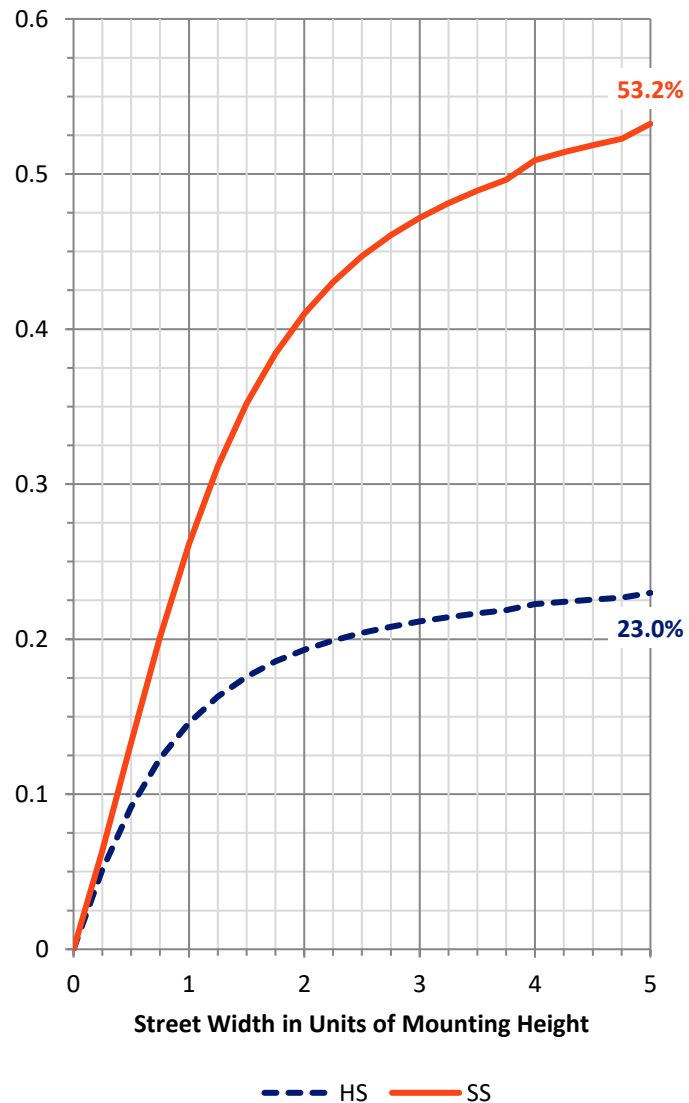
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1384.8	318.9	1703.7
	% Fixture	24.6	5.7	30.2
Street Side	Lumens	3267.8	660.9	3928.7
	% Fixture	58.0	11.7	69.8
Total	Lumens	4652.6	979.8	5632.4
	% Fixture	82.6	17.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.5	0.6
10°-20°	110.5	2.0
20°-30°	236.9	4.2
30°-40°	414.7	7.4
40°-50°	624.6	11.1
50°-60°	815.4	14.5
60°-70°	908.1	16.1
70°-80°	847.7	15.1
80°-90°	663.2	11.8
90°-100°	448.2	8.0
100°-110°	270.9	4.8
110°-120°	149.2	2.6
120°-130°	74.2	1.3
130°-140°	29.7	0.5
140°-150°	7.1	0.1
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4652.6	82.6
0°-180°	5632.4	100.0

Coefficient of Utilization



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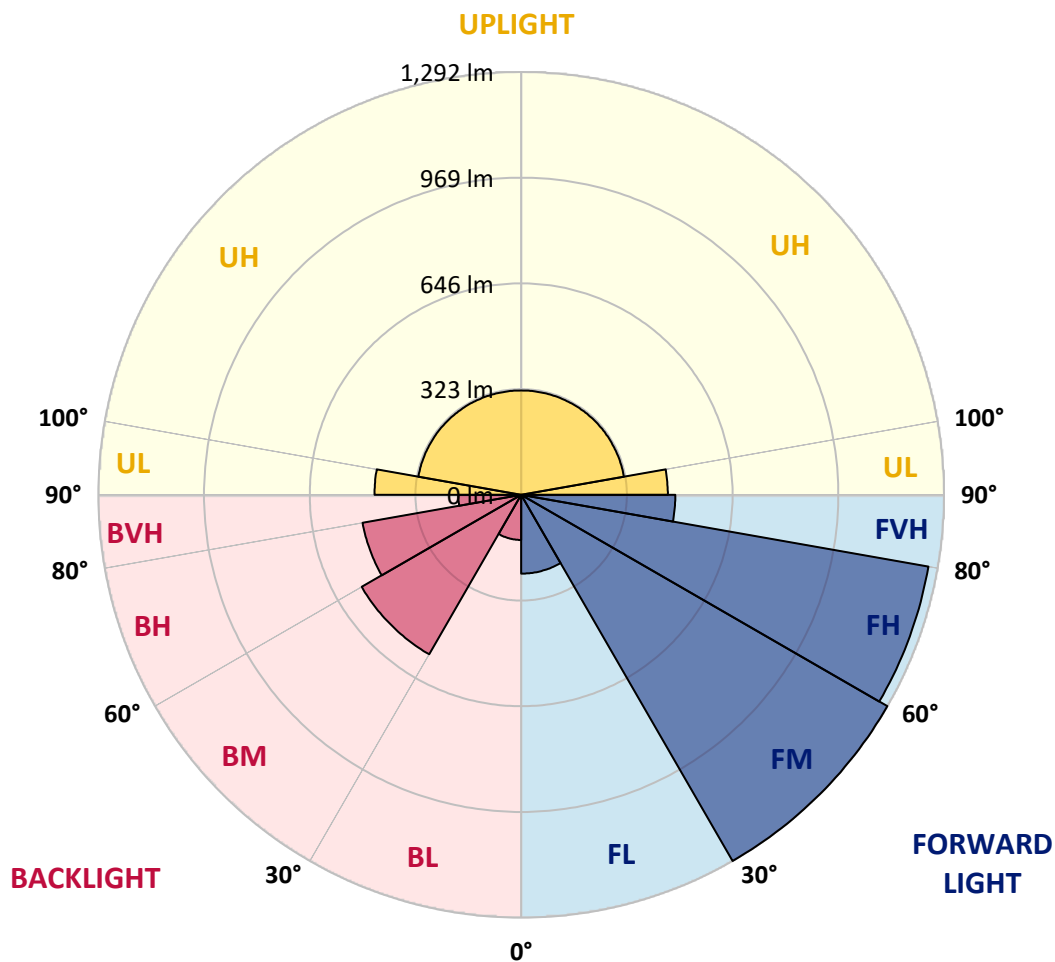
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	240.9	4.3			
FM	(30°-60°)	1292.2	22.9			
FH	(60°-80°)	1263.8	22.4			G1/1800
FVH	(80°-90°)	471.0	8.4			G3/500
BL	(0°-30°)	138.0	2.5	B1/500		
BM	(30°-60°)	562.5	10.0	B1/1000		
BH	(60°-80°)	492.0	8.7	B1/500		G1/500
BVH	(80°-90°)	192.3	3.4			G2/225
UL	(90°-100°)	448.2	8.0		U3/500	
UH	(100°-180°)	318.9	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°	317.5	317.5	317.5	317.5	317.5	317.5	317.5	317.5	317.5	317.5	317.5
2.5°	345.1	343.6	343.6	342.2	342.2	339.1	337.0	333.2	329.5	325.0	321.3
5°	372.7	372.7	371.2	371.2	368.3	363.0	357.8	351.1	344.3	337.0	328.0
7.5°	405.5	404.8	404.8	402.5	398.7	391.4	383.9	374.2	363.8	351.1	339.1
10°	439.1	438.3	438.3	436.1	431.6	422.7	411.4	400.3	386.9	370.5	354.0
12.5°	479.3	476.3	474.9	474.0	466.7	458.4	444.3	430.9	413.0	394.3	374.2
15°	521.8	521.0	516.6	514.3	506.9	494.2	480.8	464.4	446.5	425.6	401.0
17.5°	569.5	569.5	566.5	563.5	555.4	538.2	521.0	505.3	487.5	462.2	434.5
20°	620.9	620.9	617.1	612.7	602.3	587.4	570.2	551.6	530.0	502.4	468.8
22.5°	675.4	673.8	668.6	665.6	652.9	636.6	623.2	601.5	576.2	544.9	506.2
25°	732.7	730.5	725.3	722.3	707.4	694.7	679.0	653.8	624.6	588.9	545.6
27.5°	793.1	787.2	783.4	779.0	764.8	752.1	730.5	706.7	673.1	635.9	588.1
30°	851.3	849.0	844.5	838.6	825.9	811.0	787.2	761.1	728.2	687.2	634.3
32.5°	917.6	915.3	907.9	901.9	885.6	869.9	845.3	817.7	782.7	739.5	682.0
35°	984.0	980.9	972.7	966.1	952.7	929.6	900.4	874.3	839.3	795.3	733.5
37.5°	1052.5	1046.6	1037.6	1033.1	1016.7	988.4	957.9	929.6	897.4	852.7	785.6
40°	1117.4	1114.4	1104.0	1098.8	1080.8	1045.8	1012.2	986.9	957.9	910.8	840.0
42.5°	1183.7	1178.4	1168.0	1162.8	1141.9	1101.7	1066.6	1042.8	1018.2	972.0	895.2
45°	1242.6	1240.3	1227.6	1224.7	1199.3	1156.1	1115.8	1095.0	1073.4	1029.4	945.9
47.5°	1300.0	1294.7	1286.6	1282.9	1253.0	1203.8	1164.3	1146.4	1128.5	1088.3	1000.3
50°	1346.9	1346.2	1338.7	1334.2	1300.0	1246.4	1206.1	1191.9	1182.2	1143.5	1049.5
52.5°	1387.2	1386.4	1382.0	1377.5	1341.0	1285.0	1243.3	1232.9	1229.9	1194.1	1092.7
55°	1415.6	1414.7	1413.3	1408.8	1373.0	1315.6	1274.6	1266.4	1270.2	1236.6	1131.5
57.5°	1431.9	1431.2	1433.5	1429.7	1393.2	1336.5	1296.3	1294.0	1302.9	1272.4	1160.6
60°	1433.5	1433.5	1438.7	1436.4	1403.6	1347.7	1309.7	1310.4	1324.6	1295.5	1179.3
62.5°	1420.0	1420.0	1431.2	1429.0	1400.6	1346.9	1311.9	1317.9	1335.8	1308.1	1185.9
65°	1390.9	1394.7	1407.3	1407.3	1385.0	1336.5	1304.5	1313.4	1335.1	1307.4	1181.5
67.5°	1344.7	1352.1	1370.0	1371.6	1355.9	1313.4	1285.0	1297.7	1321.6	1292.5	1162.8
70°	1287.3	1297.7	1316.3	1321.6	1314.9	1279.8	1256.0	1270.9	1294.0	1265.0	1132.3
72.5°	1220.2	1229.9	1253.7	1259.8	1262.0	1234.4	1215.8	1233.7	1252.3	1221.0	1089.7
75°	1145.7	1153.9	1180.7	1186.7	1196.3	1180.7	1168.8	1182.9	1203.8	1165.0	1035.3
77.5°	1055.5	1069.7	1099.5	1106.2	1124.8	1117.4	1108.4	1125.6	1141.2	1100.2	972.0
80°	968.3	986.1	1010.8	1024.2	1046.6	1045.8	1047.3	1058.4	1071.8	1027.1	903.5
82.5°	879.5	892.2	921.3	934.0	968.3	976.5	976.5	991.3	995.8	945.9	829.6
85°	790.1	805.1	834.1	846.8	884.0	901.9	907.2	914.6	915.3	863.2	753.6
87.5°	711.2	720.1	747.7	763.3	803.5	824.4	831.1	840.0	834.1	782.7	675.4
90°	632.1	640.3	667.2	679.9	723.7	748.4	763.3	767.0	755.1	700.7	603.7
92.5°	558.3	566.5	591.9	606.7	650.0	676.1	690.3	693.3	679.9	624.6	534.5
95°	493.5	493.5	521.0	532.2	580.6	609.8	623.2	623.2	604.6	550.1	468.1
97.5°	432.3	433.8	455.4	469.6	514.3	544.9	559.0	559.8	533.7	482.3	412.2
100°	377.2	379.4	399.6	412.2	455.4	487.5	500.1	498.0	471.1	418.2	356.3
102.5°	331.7	331.7	348.8	359.3	400.3	432.3	444.3	439.8	412.2	361.5	310.9
105°	290.7	292.2	303.4	313.8	352.6	382.4	394.3	387.6	359.3	310.1	271.3
107.5°	257.9	257.2	264.6	272.1	308.6	337.0	347.4	339.1	309.3	265.4	235.6
110°	225.2	225.9	231.8	237.0	270.6	297.4	304.8	298.2	264.6	225.9	204.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	199.1	199.1	203.5	208.0	231.8	257.9	266.9	257.2	225.2	191.6	178.2
115°	176.7	177.4	178.9	181.2	201.2	225.2	232.5	220.7	189.3	164.0	155.1
117.5°	157.3	157.3	158.0	160.3	173.0	194.6	199.8	187.1	160.3	140.1	136.4
120°	140.9	140.1	139.4	140.1	149.0	164.7	169.9	157.3	133.4	121.5	118.6
122.5°	125.2	125.2	123.8	124.5	126.7	138.6	142.4	130.4	112.5	105.1	104.3
125°	110.3	110.3	108.8	108.1	107.3	113.3	114.8	105.9	93.2	90.9	90.2
127.5°	96.2	96.9	94.6	93.9	90.9	91.7	92.5	84.2	76.8	77.5	78.3
130°	84.2	84.2	82.0	80.5	76.0	72.3	70.8	65.6	62.6	65.6	67.8
132.5°	73.0	71.6	70.1	68.5	61.9	56.7	53.7	49.2	50.7	55.1	57.4
135°	61.2	60.4	58.1	57.4	50.7	42.5	37.2	35.8	40.2	45.4	47.0
137.5°	49.9	49.9	47.7	46.2	38.8	30.6	25.4	25.4	30.6	35.8	38.8
140°	39.5	39.5	37.2	35.8	29.1	20.9	15.7	16.4	22.4	27.6	29.8
142.5°	29.8	29.8	27.6	26.8	20.9	13.4	8.9	10.4	15.7	20.2	22.4
145°	21.6	20.9	19.3	18.6	13.4	8.2	4.5	5.9	9.7	13.4	15.7
147.5°	14.1	14.1	12.7	12.0	8.2	4.5	1.5	3.0	5.9	8.2	10.4
150°	8.2	8.2	7.5	6.8	4.5	1.5	0.0	1.5	3.0	4.5	5.9
152.5°	4.5	4.5	3.7	3.7	1.5	0.7	0.0	0.0	0.7	2.3	2.3
155°	1.5	1.5	1.5	1.5	0.7	0.0	0.0	0.0	0.0	0.7	0.7
157.5°	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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°	317.5	317.5	317.5	317.5	317.5	317.5	317.5	317.5	317.5	317.5	317.5
2.5°	319.1	316.8	312.3	308.6	304.8	300.4	298.2	295.9	294.4	293.0	293.0
5°	323.5	319.1	310.9	302.6	295.2	288.5	282.5	278.0	275.8	274.4	273.5
7.5°	333.2	326.5	313.0	300.4	289.2	278.8	270.6	263.9	260.1	257.9	257.2
10°	345.9	336.1	319.1	301.9	286.9	273.5	262.4	254.2	249.0	246.7	245.2
12.5°	363.0	351.1	328.7	307.1	287.8	271.3	257.2	248.3	243.0	240.0	240.0
15°	389.1	373.5	345.9	316.8	293.0	272.8	257.2	247.5	243.8	242.2	241.5
17.5°	418.9	401.0	367.4	333.9	303.4	278.0	263.9	257.9	252.7	250.4	250.4
20°	451.7	430.0	391.4	353.3	319.1	293.0	277.3	267.6	261.7	259.4	258.7
22.5°	484.5	462.2	416.6	373.5	335.4	312.3	290.0	278.0	270.6	267.6	266.9
25°	521.8	497.2	443.6	395.1	358.5	332.5	306.4	289.2	279.6	275.8	275.1
27.5°	562.0	533.0	473.3	418.2	380.9	350.4	321.3	298.2	288.5	284.0	283.3
30°	603.7	571.7	503.2	442.0	402.5	366.0	335.4	309.3	296.7	291.4	290.7
32.5°	647.7	609.8	535.2	470.4	422.7	380.1	347.4	319.8	304.1	298.2	298.2
35°	696.9	652.9	566.5	496.4	441.3	394.3	357.8	329.5	310.9	304.8	304.8
37.5°	743.9	696.2	600.1	524.8	458.4	405.5	366.0	338.4	317.5	310.1	310.1
40°	793.8	739.5	632.1	547.9	473.3	414.4	373.5	345.1	322.7	316.1	314.6
42.5°	842.3	782.7	666.4	571.7	486.0	421.9	379.4	351.1	327.2	319.1	318.2
45°	893.0	825.9	699.2	591.1	496.4	427.1	382.4	354.9	332.5	322.0	320.5
47.5°	937.0	867.0	731.2	608.2	504.6	430.0	384.6	357.8	335.4	323.5	322.0
50°	980.9	903.5	758.1	622.4	509.1	431.6	385.3	358.5	337.7	323.5	322.0
52.5°	1020.5	937.7	781.2	632.1	511.4	430.9	384.6	358.5	338.4	322.0	320.5
55°	1053.2	965.3	797.6	638.0	511.4	428.6	382.4	357.0	337.7	320.5	318.2
57.5°	1077.9	984.0	808.7	639.5	507.6	424.1	378.7	354.9	335.4	317.5	314.6
60°	1092.7	994.4	812.5	635.9	501.7	418.9	374.2	351.8	333.2	313.0	310.9
62.5°	1097.2	995.8	808.7	628.4	493.5	411.4	367.4	346.6	328.7	307.8	305.7
65°	1089.7	987.7	798.3	616.4	482.3	402.5	360.8	340.6	323.5	301.9	299.6
67.5°	1069.7	969.8	779.7	600.1	469.6	392.1	353.3	333.9	317.5	295.2	290.7
70°	1039.8	943.0	755.9	579.9	454.7	380.9	344.3	325.7	309.3	287.8	283.3
72.5°	996.6	906.4	724.6	555.4	437.5	369.0	333.2	316.1	300.4	278.8	272.8
75°	944.4	859.5	687.2	530.0	419.6	354.9	322.0	305.7	290.0	268.3	263.1
77.5°	886.3	810.3	647.0	500.9	398.7	340.6	310.1	294.4	278.0	257.2	249.7
80°	823.0	752.9	603.0	471.1	379.4	325.0	296.7	281.7	265.4	245.2	237.0
82.5°	754.3	693.3	559.0	441.3	357.8	309.3	283.3	268.3	251.2	231.8	223.6
85°	687.2	632.1	512.8	409.2	337.0	293.0	268.3	253.5	237.7	217.7	210.2
87.5°	618.0	570.2	467.4	377.9	316.1	277.3	254.2	238.6	222.1	203.5	197.5
90°	557.6	512.1	424.8	348.1	294.4	260.1	239.3	222.9	207.2	189.3	184.1
92.5°	493.5	456.2	383.1	319.8	274.4	243.8	224.3	208.7	191.6	174.4	170.7
95°	438.3	407.7	345.1	291.4	252.7	228.1	209.5	193.0	175.9	159.5	157.3
97.5°	385.3	360.1	307.8	265.4	234.1	211.6	193.8	178.2	160.3	145.4	143.8
100°	338.4	316.1	274.4	241.5	213.9	196.0	179.6	163.3	145.4	131.1	131.1
102.5°	295.2	278.0	244.5	216.9	196.0	178.9	164.0	147.6	129.7	117.7	118.6
105°	260.1	243.8	216.1	195.3	178.2	162.5	148.3	132.0	114.8	105.1	105.9
107.5°	226.6	213.9	191.6	173.7	160.3	147.6	132.7	117.0	99.8	93.9	94.6
110°	197.5	187.8	169.9	155.1	144.6	132.7	119.3	102.9	87.3	83.5	83.5



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	172.2	164.0	150.6	138.6	128.2	118.6	104.3	89.4	74.6	73.0	73.0
115°	150.6	144.6	132.0	122.2	114.8	105.1	92.5	76.8	64.9	64.1	64.9
117.5°	132.0	126.7	116.3	108.1	101.4	92.5	80.5	65.6	55.1	56.0	56.7
120°	115.5	111.8	102.9	96.2	89.4	81.2	68.5	55.1	48.5	49.2	49.2
122.5°	102.1	98.4	90.9	84.2	78.3	70.1	58.9	46.2	41.7	43.3	43.3
125°	88.7	86.4	79.0	73.0	67.1	58.9	48.5	38.1	35.8	37.2	37.2
127.5°	76.8	75.3	69.4	62.6	56.7	49.2	39.5	31.3	30.6	32.0	32.0
130°	66.4	64.9	59.6	53.7	47.0	40.2	30.6	25.4	26.1	27.6	28.3
132.5°	56.7	56.0	50.7	44.0	38.1	31.3	23.8	20.9	22.4	23.8	23.8
135°	47.0	46.2	42.5	36.5	29.8	23.8	17.9	16.4	18.6	20.2	20.2
137.5°	38.8	37.2	34.3	28.3	22.4	17.2	12.7	13.4	14.9	16.4	16.4
140°	30.6	29.8	26.8	21.6	15.7	11.2	8.9	10.4	12.7	13.4	13.4
142.5°	22.4	22.4	19.3	14.9	9.7	6.8	5.9	7.5	9.7	10.4	10.4
145°	15.7	15.7	13.4	9.7	5.9	3.0	3.0	5.2	6.8	7.5	8.2
147.5°	10.4	9.7	8.2	5.9	3.0	0.7	1.5	3.7	4.5	5.2	5.2
150°	5.9	5.9	4.5	3.0	1.5	0.0	0.7	1.5	2.3	3.0	3.7
152.5°	2.3	2.3	1.5	0.7	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°	0.7	0.0	0.7	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)