

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: P266457

Luminaire Tested: **UTLD-AF24-70-D-U-T4W-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266457
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-AF24-70-D-U-T4W-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 930mA 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: 5353 lumens
Efficiency: N/A
Efficacy: 72.3 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): 74
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



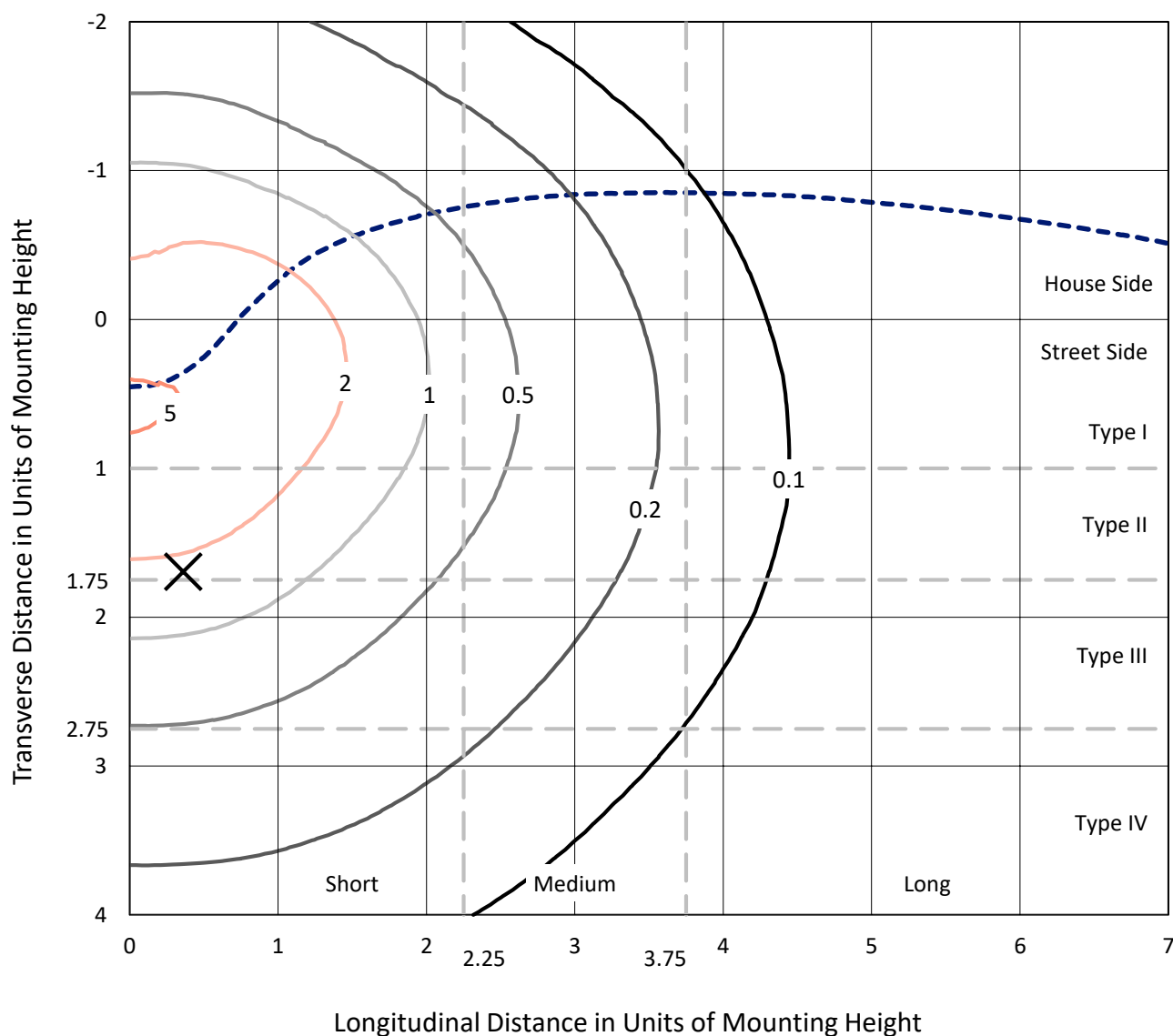
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

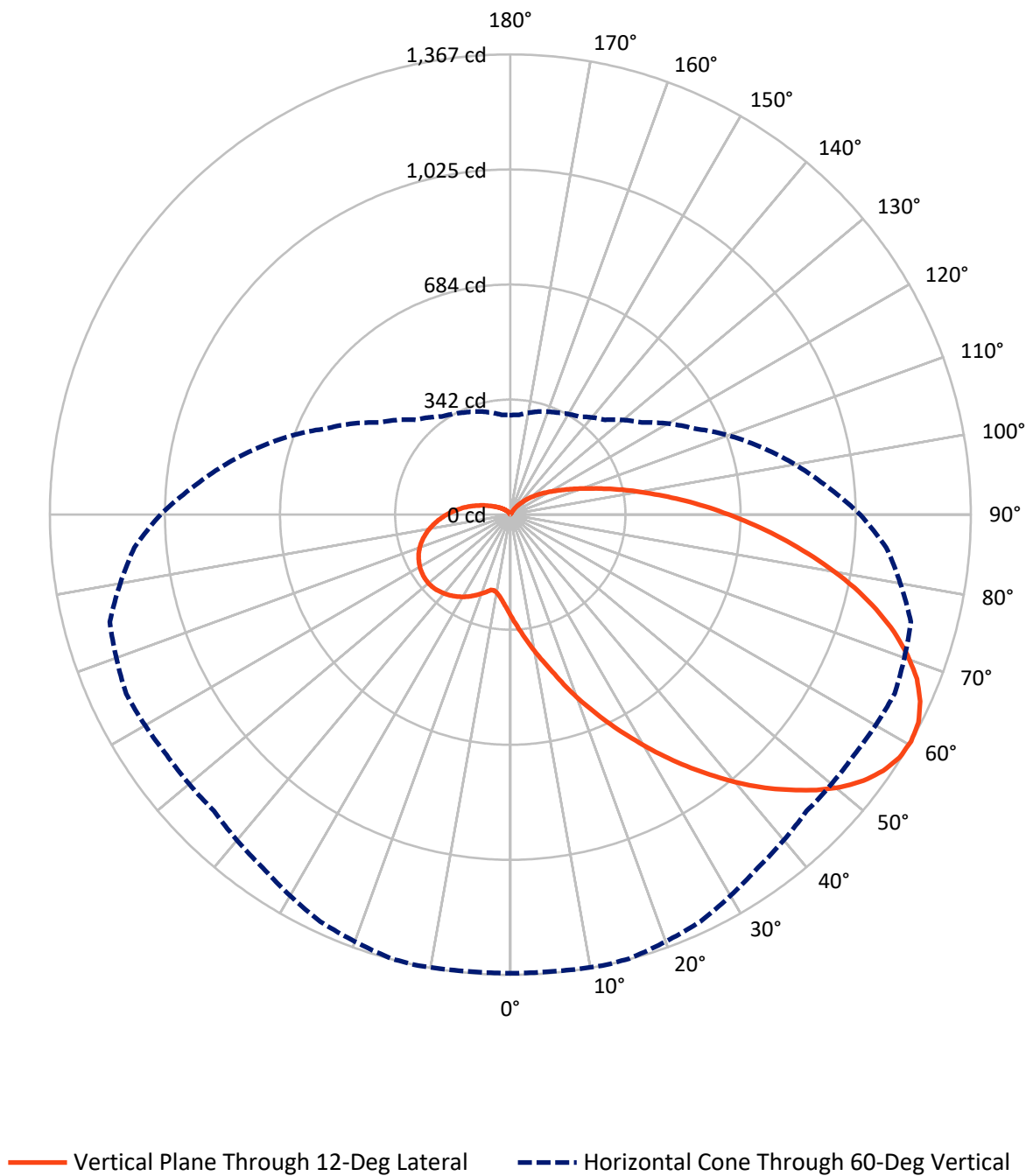


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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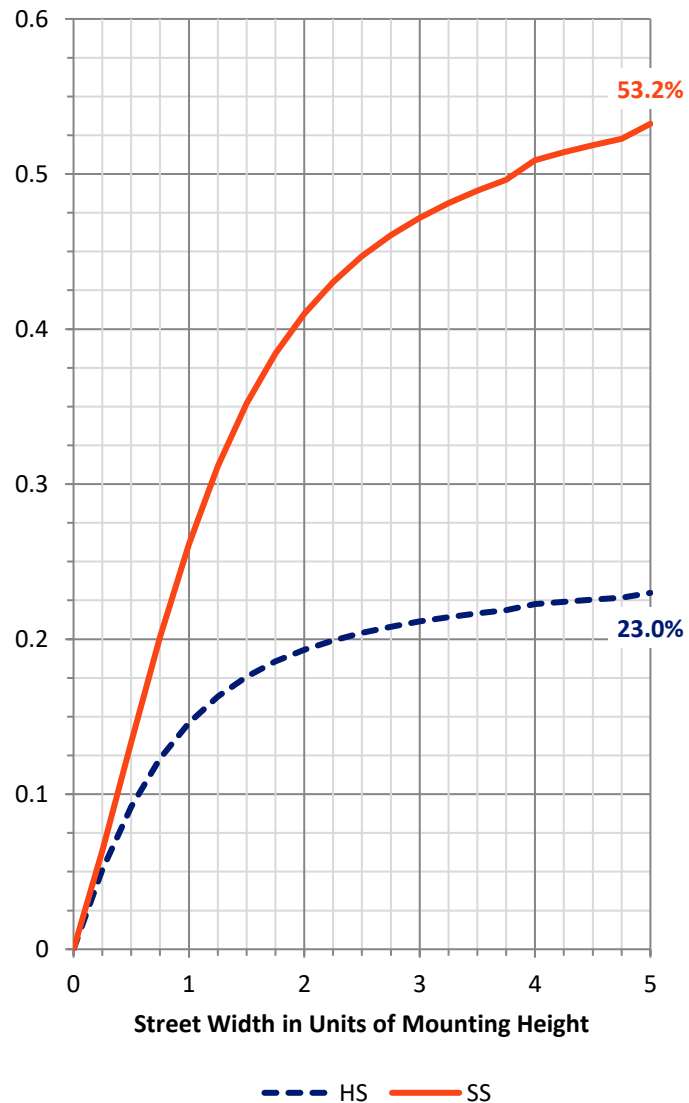
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1316.1	303.1	1619.2
	% Fixture	24.6	5.7	30.2
Street Side	Lumens	3105.8	628.1	3733.9
	% Fixture	58.0	11.7	69.8
Total	Lumens	4421.8	931.2	5353.0
	% Fixture	82.6	17.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.9	0.6
10°-20°	105.0	2.0
20°-30°	225.2	4.2
30°-40°	394.2	7.4
40°-50°	593.6	11.1
50°-60°	775.0	14.5
60°-70°	863.0	16.1
70°-80°	805.7	15.1
80°-90°	630.3	11.8
90°-100°	426.0	8.0
100°-110°	257.4	4.8
110°-120°	141.8	2.6
120°-130°	70.5	1.3
130°-140°	28.2	0.5
140°-150°	6.8	0.1
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4421.8	82.6
0°-180°	5353.0	100.0

Coefficient of Utilization



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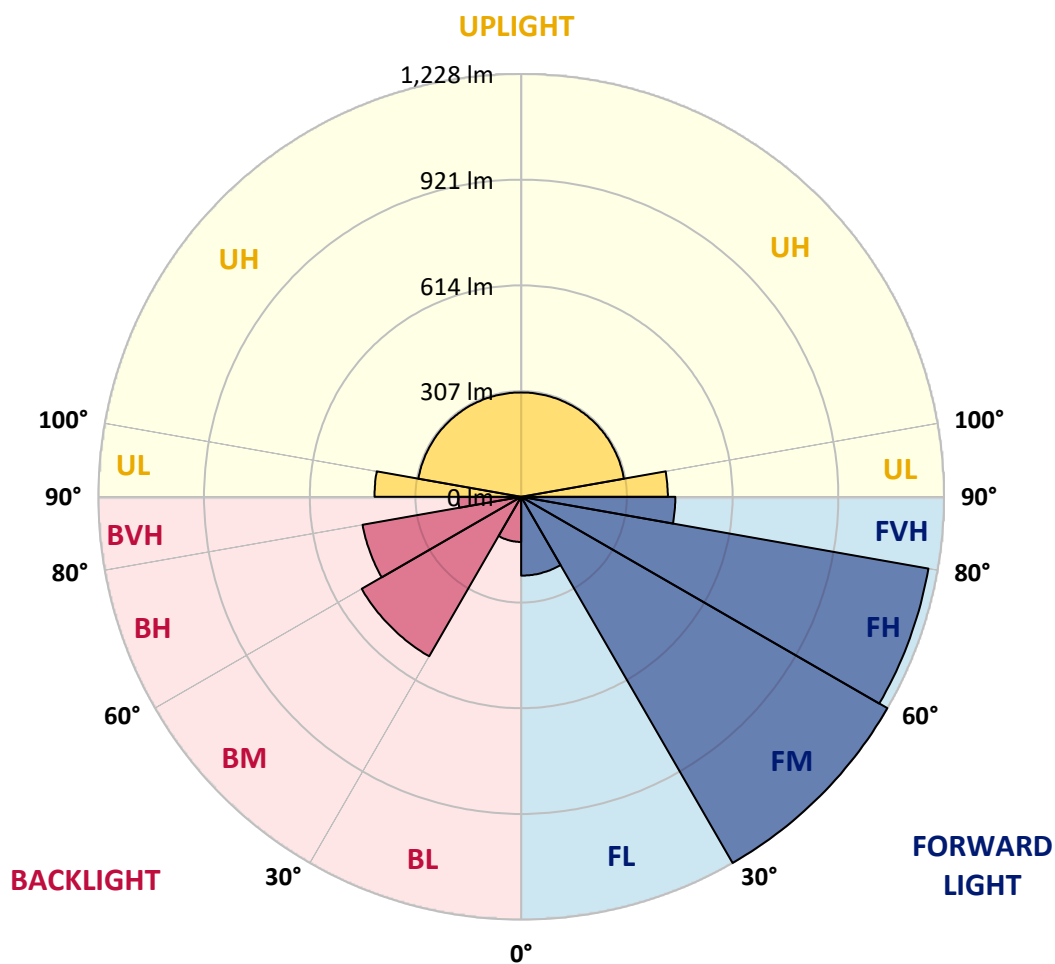
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	228.9	4.3			
FM	(30°-60°)	1228.1	22.9			
FH	(60°-80°)	1201.1	22.4			G1/1800
FVH	(80°-90°)	447.6	8.4			G3/500
BL	(0°-30°)	131.1	2.4	B1/500		
BM	(30°-60°)	534.6	10.0	B1/1000		
BH	(60°-80°)	467.6	8.7	B1/500		G1/500
BVH	(80°-90°)	182.7	3.4			G2/225
UL	(90°-100°)	426.0	8.0		U3/500	
UH	(100°-180°)	303.1	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°	301.8	301.8	301.8	301.8	301.8	301.8	301.8	301.8	301.8	301.8	301.8
2.5°	328.1	326.5	326.5	325.1	325.1	322.3	320.2	316.7	313.1	308.8	305.3
5°	354.2	354.2	352.9	352.9	350.0	344.9	340.1	333.7	327.3	320.2	311.7
7.5°	385.5	384.7	384.7	382.6	379.1	371.9	364.8	355.5	345.7	333.7	322.3
10°	417.3	416.5	416.5	414.5	410.2	401.7	391.0	380.4	367.6	352.0	336.5
12.5°	455.5	452.7	451.3	450.6	443.5	435.7	422.3	409.4	392.5	374.8	355.5
15°	496.0	495.1	491.0	488.8	481.8	469.8	457.0	441.3	424.4	404.4	381.2
17.5°	541.3	541.3	538.4	535.6	527.8	511.5	495.1	480.4	463.3	439.2	413.0
20°	590.1	590.1	586.6	582.3	572.4	558.2	541.9	524.3	503.7	477.4	445.6
22.5°	641.7	640.4	635.6	632.6	620.5	605.0	592.3	571.7	547.5	517.9	481.0
25°	696.4	694.3	689.3	686.5	672.3	660.3	645.4	621.3	593.7	559.6	518.6
27.5°	753.8	748.1	744.5	740.4	726.9	714.8	694.3	671.7	639.8	604.3	558.9
30°	809.1	806.9	802.6	796.9	784.9	770.7	748.1	723.3	692.1	653.2	602.9
32.5°	872.1	870.0	862.8	857.3	841.6	826.7	803.4	777.2	743.8	702.7	648.1
35°	935.1	932.4	924.4	918.1	905.4	883.5	855.7	831.0	797.7	756.0	697.1
37.5°	1000.4	994.7	986.1	981.8	966.2	939.4	910.3	883.5	852.9	810.5	746.8
40°	1061.9	1059.1	1049.2	1044.2	1027.2	994.0	962.1	938.0	910.3	865.6	798.5
42.5°	1124.9	1120.0	1110.1	1105.2	1085.3	1047.1	1013.7	991.1	967.7	923.7	850.9
45°	1180.9	1178.8	1166.8	1163.9	1139.9	1098.7	1060.4	1040.6	1020.1	978.3	899.1
47.5°	1235.4	1230.6	1222.8	1219.2	1190.9	1144.1	1106.5	1089.6	1072.5	1034.3	950.8
50°	1280.2	1279.5	1272.3	1268.0	1235.4	1184.4	1146.2	1132.9	1123.6	1086.7	997.5
52.5°	1318.4	1317.6	1313.4	1309.2	1274.4	1221.3	1181.7	1171.7	1169.0	1134.9	1038.6
55°	1345.3	1344.7	1343.1	1339.0	1305.0	1250.4	1211.5	1203.5	1207.1	1175.3	1075.5
57.5°	1360.9	1360.3	1362.3	1358.7	1324.0	1270.3	1231.9	1229.8	1238.4	1209.3	1102.9
60°	1362.3	1362.3	1367.3	1365.2	1334.0	1280.9	1244.7	1245.4	1258.9	1231.2	1120.7
62.5°	1349.6	1349.6	1360.3	1358.1	1331.2	1280.2	1246.8	1252.4	1269.6	1243.3	1127.2
65°	1321.9	1325.4	1337.5	1337.5	1316.2	1270.3	1239.8	1248.3	1268.8	1242.5	1122.8
67.5°	1278.0	1285.0	1302.2	1303.5	1288.7	1248.3	1221.3	1233.4	1256.0	1228.4	1105.2
70°	1223.4	1233.4	1251.1	1256.0	1249.7	1216.3	1193.7	1208.0	1229.8	1202.2	1076.1
72.5°	1159.7	1169.0	1191.6	1197.3	1199.3	1173.1	1155.5	1172.5	1190.2	1160.4	1035.7
75°	1088.8	1096.7	1122.2	1127.8	1137.1	1122.2	1110.8	1124.3	1144.1	1107.3	984.1
77.5°	1003.1	1016.6	1045.0	1051.2	1069.1	1061.9	1053.4	1069.7	1084.7	1045.6	923.7
80°	920.3	937.2	960.6	973.5	994.7	994.0	995.3	1006.0	1018.7	976.2	858.6
82.5°	836.0	848.0	875.6	887.6	920.3	928.0	928.0	942.2	946.5	899.1	788.5
85°	751.0	765.0	792.8	804.8	840.3	857.3	862.2	869.2	870.0	820.3	716.2
87.5°	675.9	684.4	710.6	725.4	763.6	783.5	789.9	798.5	792.8	743.8	641.7
90°	600.7	608.5	634.1	646.2	687.9	711.3	725.4	729.0	717.7	666.0	573.8
92.5°	530.5	538.4	562.5	576.6	617.8	642.6	656.0	658.8	646.2	593.7	507.9
95°	468.9	468.9	495.1	505.8	551.9	579.4	592.3	592.3	574.6	522.9	444.9
97.5°	410.9	412.3	432.9	446.3	488.8	517.9	531.3	532.1	507.3	458.3	391.8
100°	358.5	360.6	379.8	391.8	432.9	463.3	475.4	473.2	447.7	397.4	338.7
102.5°	315.2	315.2	331.6	341.4	380.4	410.9	422.3	418.0	391.8	343.6	295.5
105°	276.3	277.7	288.4	298.2	335.1	363.5	374.8	368.3	341.4	294.7	257.9
107.5°	245.1	244.3	251.4	258.6	293.2	320.2	330.1	322.3	293.9	252.2	223.9
110°	213.9	214.7	220.4	225.2	257.2	282.6	289.8	283.3	251.4	214.7	194.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	189.2	189.2	193.4	197.6	220.4	245.1	253.6	244.3	213.9	182.0	169.3
115°	168.0	168.6	170.0	172.1	191.2	213.9	221.1	209.8	179.9	155.9	147.3
117.5°	149.5	149.5	150.1	152.4	164.4	185.0	189.8	177.9	152.4	133.2	129.6
120°	133.8	133.2	132.5	133.2	141.8	156.6	161.5	149.5	126.8	115.5	112.6
122.5°	119.0	119.0	117.6	118.2	120.5	131.8	135.4	124.0	107.0	99.9	99.3
125°	104.8	104.8	103.5	102.8	102.0	107.6	109.1	100.6	88.6	86.4	85.7
127.5°	91.4	92.0	90.0	89.2	86.4	87.1	87.9	80.0	72.9	73.8	74.4
130°	80.0	80.0	78.0	76.5	72.3	68.7	67.4	62.3	59.5	62.3	64.5
132.5°	69.3	68.0	66.6	65.1	58.7	53.9	51.1	46.7	48.1	52.5	54.5
135°	58.1	57.4	55.2	54.5	48.1	40.3	35.5	34.0	38.3	43.2	44.6
137.5°	47.5	47.5	45.4	43.9	36.8	29.0	24.1	24.1	29.0	34.0	36.8
140°	37.5	37.5	35.5	34.0	27.7	19.9	14.9	15.6	21.3	26.2	28.3
142.5°	28.3	28.3	26.2	25.5	19.9	12.8	8.5	9.9	14.9	19.1	21.3
145°	20.5	19.9	18.4	17.6	12.8	7.7	4.2	5.7	9.3	12.8	14.9
147.5°	13.5	13.5	12.0	11.3	7.7	4.2	1.3	2.9	5.7	7.7	9.9
150°	7.7	7.7	7.0	6.4	4.2	1.3	0.0	1.3	2.9	4.2	5.7
152.5°	4.2	4.2	3.6	3.6	1.3	0.7	0.0	0.0	0.7	2.2	2.2
155°	1.3	1.3	1.3	1.3	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°	301.8	301.8	301.8	301.8	301.8	301.8	301.8	301.8	301.8	301.8	301.8
2.5°	303.2	301.1	296.8	293.2	289.8	285.5	283.3	281.3	279.8	278.5	278.5
5°	307.5	303.2	295.5	287.5	280.5	274.2	268.6	264.2	262.1	260.7	260.0
7.5°	316.7	310.3	297.6	285.5	274.9	265.0	257.2	250.7	247.3	245.1	244.3
10°	328.7	319.4	303.2	286.9	272.7	260.0	249.4	241.6	236.7	234.5	233.1
12.5°	344.9	333.7	312.4	291.9	273.4	257.9	244.3	236.0	231.0	228.1	228.1
15°	369.8	354.9	328.7	301.1	278.5	259.3	244.3	235.1	231.7	230.2	229.5
17.5°	398.2	381.2	349.3	317.5	288.4	264.2	250.7	245.1	240.1	238.1	238.1
20°	429.3	408.8	371.9	335.7	303.2	278.5	263.6	254.3	248.7	246.6	245.9
22.5°	460.6	439.2	396.1	354.9	318.8	296.8	275.6	264.2	257.2	254.3	253.6
25°	496.0	472.5	421.6	375.5	340.7	315.9	291.2	274.9	265.7	262.1	261.3
27.5°	534.1	506.6	449.8	397.4	361.9	332.9	305.3	283.3	274.2	269.9	269.2
30°	573.8	543.4	478.2	420.0	382.6	347.9	318.8	293.9	282.0	276.9	276.3
32.5°	615.6	579.4	508.7	447.0	401.7	361.3	330.1	303.9	289.1	283.3	283.3
35°	662.4	620.5	538.4	471.8	419.4	374.8	340.1	313.1	295.5	289.8	289.8
37.5°	707.1	661.7	570.2	498.6	435.7	385.5	347.9	321.7	301.8	294.7	294.7
40°	754.4	702.7	600.7	520.7	449.8	393.8	354.9	328.1	306.7	300.4	299.0
42.5°	800.5	743.8	633.3	543.4	461.9	401.0	360.6	333.7	311.1	303.2	302.5
45°	848.7	784.9	664.4	561.8	471.8	405.9	363.5	337.3	315.9	306.1	304.6
47.5°	890.5	823.9	695.0	578.1	479.6	408.8	365.5	340.1	318.8	307.5	306.1
50°	932.4	858.6	720.5	591.5	483.8	410.2	366.2	340.7	321.0	307.5	306.1
52.5°	969.8	891.2	742.4	600.7	486.1	409.4	365.5	340.7	321.7	306.1	304.6
55°	1001.0	917.3	758.0	606.4	486.1	407.3	363.5	339.3	321.0	304.6	302.5
57.5°	1024.3	935.1	768.7	607.9	482.4	403.1	360.0	337.3	318.8	301.8	299.0
60°	1038.6	945.0	772.3	604.3	476.8	398.2	355.5	334.3	316.7	297.6	295.5
62.5°	1042.8	946.5	768.7	597.3	468.9	391.0	349.3	329.4	312.4	292.6	290.4
65°	1035.7	938.6	758.7	585.9	458.3	382.6	343.0	323.7	307.5	286.9	284.9
67.5°	1016.6	921.8	741.0	570.2	446.3	372.6	335.7	317.5	301.8	280.5	276.3
70°	988.2	896.1	718.4	551.2	432.2	361.9	327.3	309.6	293.9	273.4	269.2
72.5°	947.2	861.5	688.6	527.8	415.8	350.7	316.7	300.4	285.5	265.0	259.3
75°	897.5	816.7	653.2	503.7	398.8	337.3	306.1	290.4	275.6	254.9	250.1
77.5°	842.3	770.0	614.9	476.0	379.1	323.7	294.7	279.8	264.2	244.3	237.3
80°	782.2	715.5	573.1	447.7	360.6	308.8	282.0	267.8	252.2	233.1	225.2
82.5°	716.9	658.8	531.3	419.4	340.1	293.9	269.2	254.9	238.7	220.4	212.4
85°	653.2	600.7	487.4	389.0	320.2	278.5	254.9	240.8	226.1	206.9	199.8
87.5°	587.3	541.9	444.2	359.2	300.4	263.6	241.6	226.7	211.1	193.4	187.7
90°	529.9	486.7	403.8	330.8	279.8	247.3	227.5	211.8	197.0	179.9	175.0
92.5°	468.9	433.5	364.2	303.9	260.7	231.7	213.3	198.3	182.0	165.7	162.2
95°	416.5	387.4	328.1	276.9	240.1	216.9	199.1	183.4	167.2	151.6	149.5
97.5°	366.2	342.2	292.6	252.2	222.4	201.2	184.2	169.3	152.4	138.2	136.7
100°	321.7	300.4	260.7	229.5	203.3	186.3	170.8	155.1	138.2	124.7	124.7
102.5°	280.5	264.2	232.3	206.2	186.3	170.0	155.9	140.2	123.2	111.8	112.6
105°	247.3	231.7	205.4	185.6	169.3	154.5	140.9	125.5	109.1	99.9	100.6
107.5°	215.4	203.3	182.0	165.1	152.4	140.2	126.1	111.2	95.0	89.2	90.0
110°	187.7	178.6	161.5	147.3	137.4	126.1	113.4	97.7	83.0	79.3	79.3



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CATALOG NUMBER: UTLD-AF24-70-D-U-T4W-FP-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	163.6	155.9	143.1	131.8	121.8	112.6	99.3	85.0	70.8	69.3	69.3
115°	143.1	137.4	125.5	116.2	109.1	99.9	87.9	72.9	61.7	60.9	61.7
117.5°	125.5	120.5	110.5	102.8	96.4	87.9	76.5	62.3	52.5	53.1	53.9
120°	109.9	106.3	97.7	91.4	85.0	77.3	65.1	52.5	46.1	46.7	46.7
122.5°	97.0	93.6	86.4	80.0	74.4	66.6	56.0	43.9	39.6	41.1	41.1
125°	84.4	82.1	75.1	69.3	63.8	56.0	46.1	36.1	34.0	35.5	35.5
127.5°	72.9	71.5	65.8	59.5	53.9	46.7	37.5	29.7	29.0	30.5	30.5
130°	63.1	61.7	56.7	51.1	44.6	38.3	29.0	24.1	24.9	26.2	26.9
132.5°	53.9	53.1	48.1	41.9	36.1	29.7	22.6	19.9	21.3	22.6	22.6
135°	44.6	43.9	40.3	34.8	28.3	22.6	17.0	15.6	17.6	19.1	19.1
137.5°	36.8	35.5	32.6	26.9	21.3	16.3	12.0	12.8	14.2	15.6	15.6
140°	29.0	28.3	25.5	20.5	14.9	10.6	8.5	9.9	12.0	12.8	12.8
142.5°	21.3	21.3	18.4	14.2	9.3	6.4	5.7	7.0	9.3	9.9	9.9
145°	14.9	14.9	12.8	9.3	5.7	2.9	2.9	5.0	6.4	7.0	7.7
147.5°	9.9	9.3	7.7	5.7	2.9	0.7	1.3	3.6	4.2	5.0	5.0
150°	5.7	5.7	4.2	2.9	1.3	0.0	0.7	1.3	2.2	2.9	3.6
152.5°	2.2	2.2	1.3	0.7	0.7	0.0	0.0	0.0	0.7	1.3	1.3
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)