

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: P266356

Luminaire Tested: **UTLD-AF24-40-D-U-T4W-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-31)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-40-D-U-T4W-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3451.9 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U3 - G2

Input Watts (W): 40
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

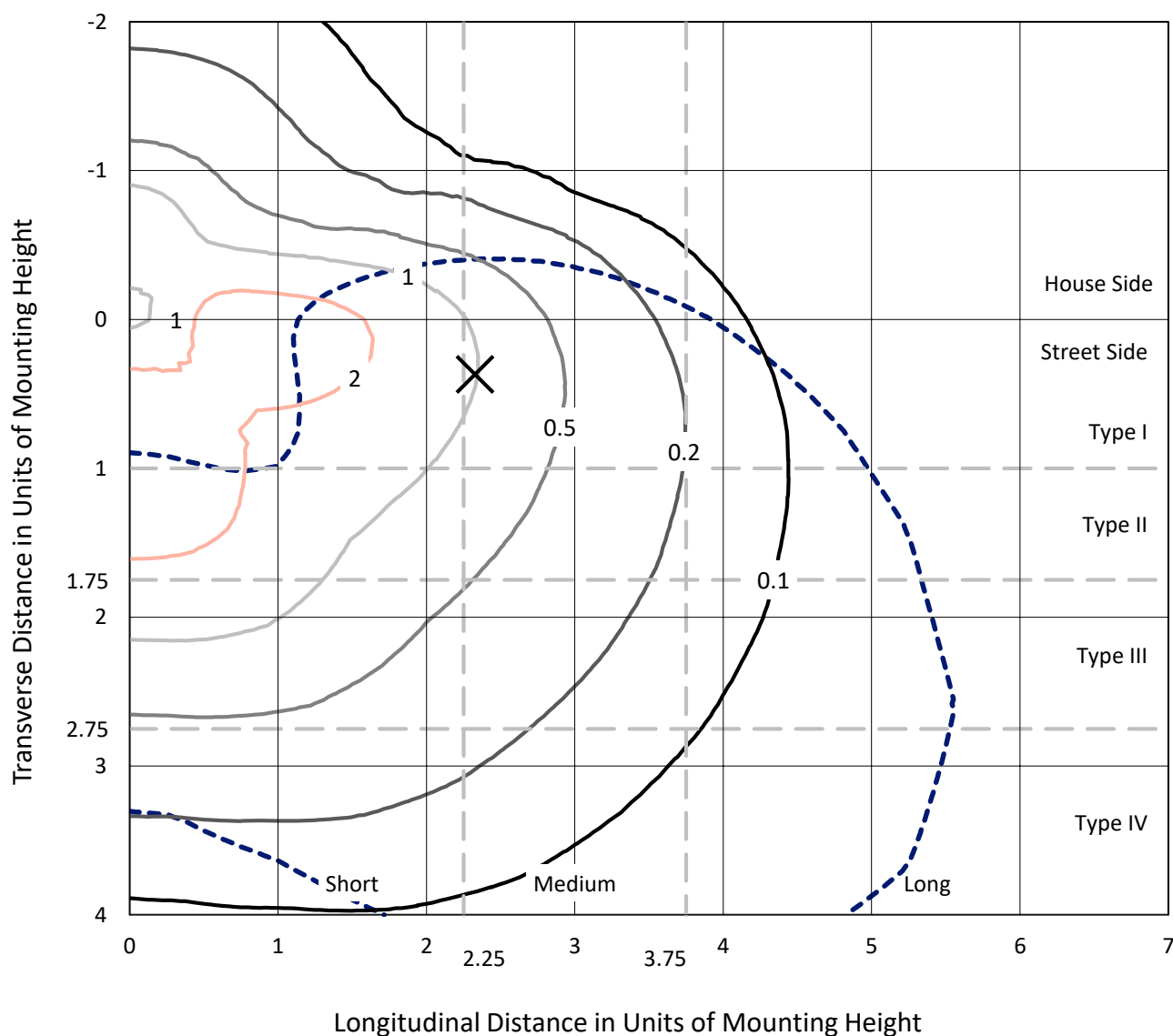


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

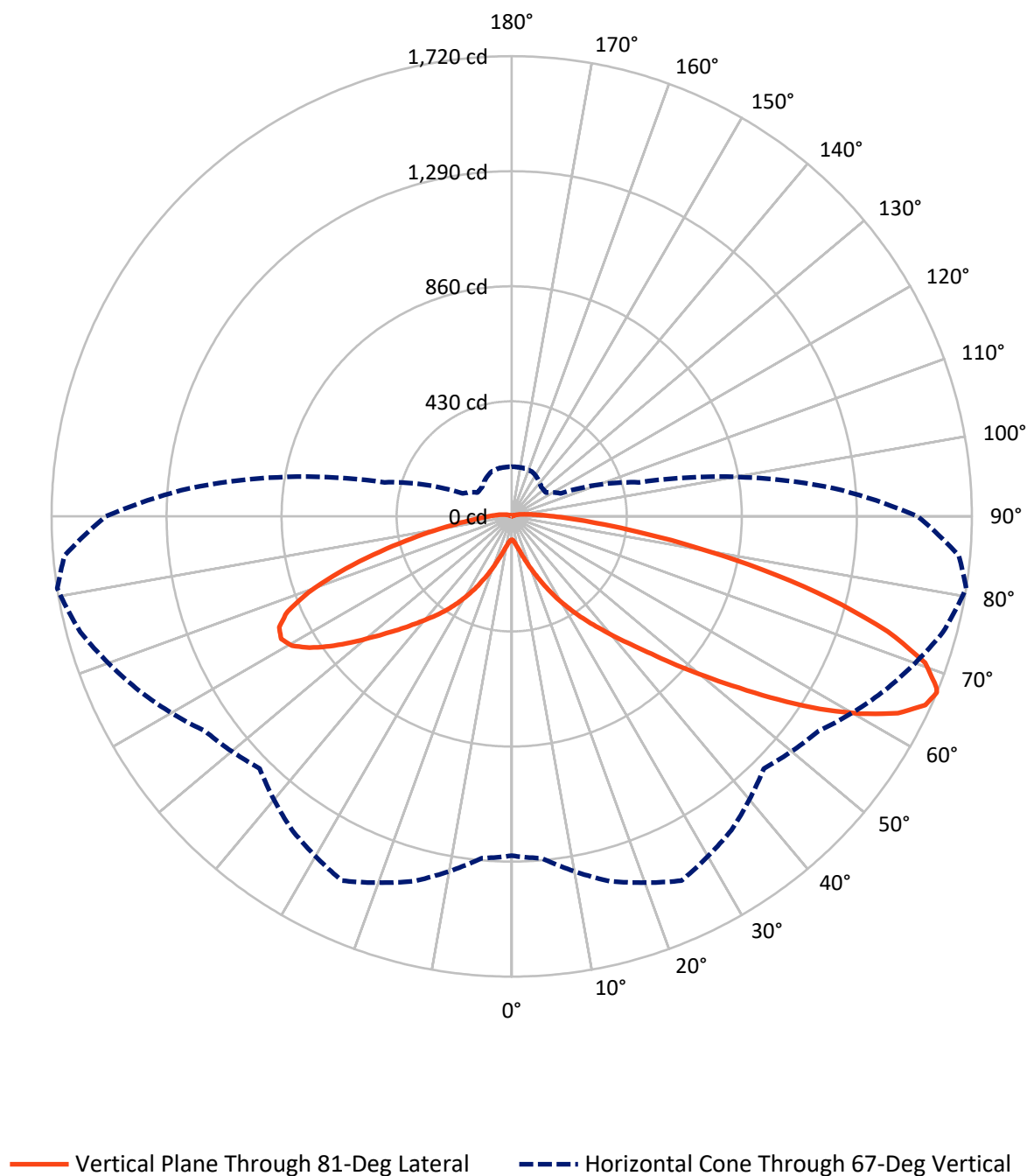


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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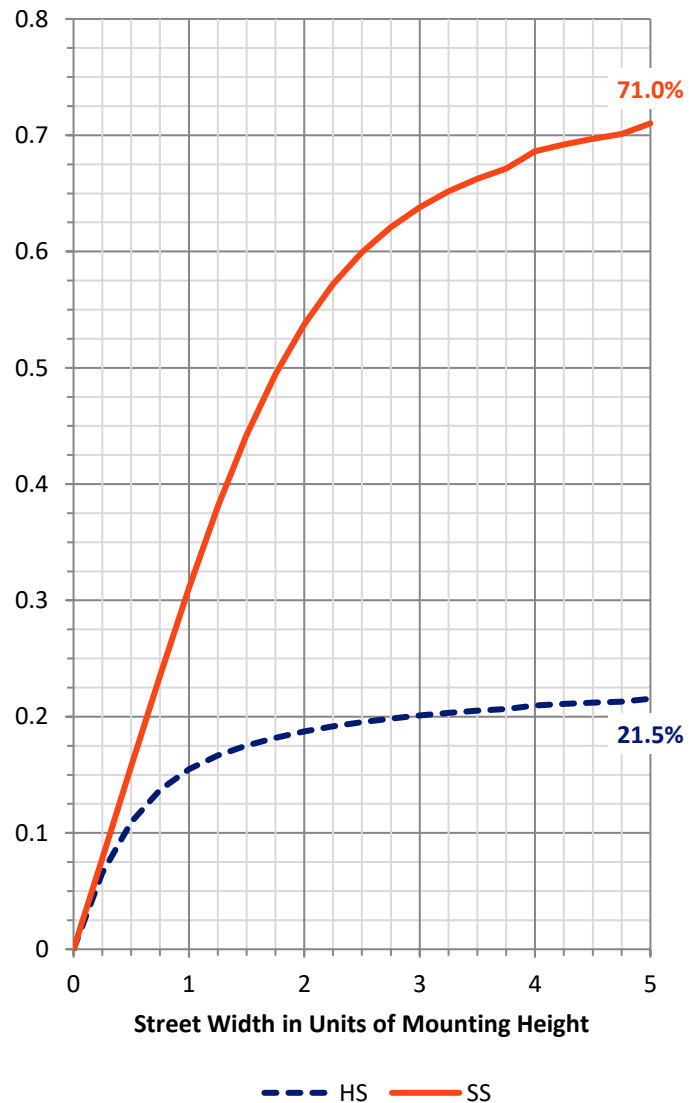
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	784.5	63.2	847.6
	% Fixture	22.7	1.8	24.6
Street Side	Lumens	2532.2	72.1	2604.3
	% Fixture	73.4	2.1	75.4
Total	Lumens	3316.6	135.3	3451.9
	% Fixture	96.1	3.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.6	0.3
10°-20°	43.6	1.3
20°-30°	117.7	3.4
30°-40°	236.3	6.8
40°-50°	399.3	11.6
50°-60°	638.5	18.5
60°-70°	872.4	25.3
70°-80°	719.2	20.8
80°-90°	279.9	8.1
90°-100°	80.6	2.3
100°-110°	30.9	0.9
110°-120°	13.4	0.4
120°-130°	6.4	0.2
130°-140°	3.0	0.1
140°-150°	0.9	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3316.6	96.1
0°-180°	3451.9	100.0

Coefficient of Utilization



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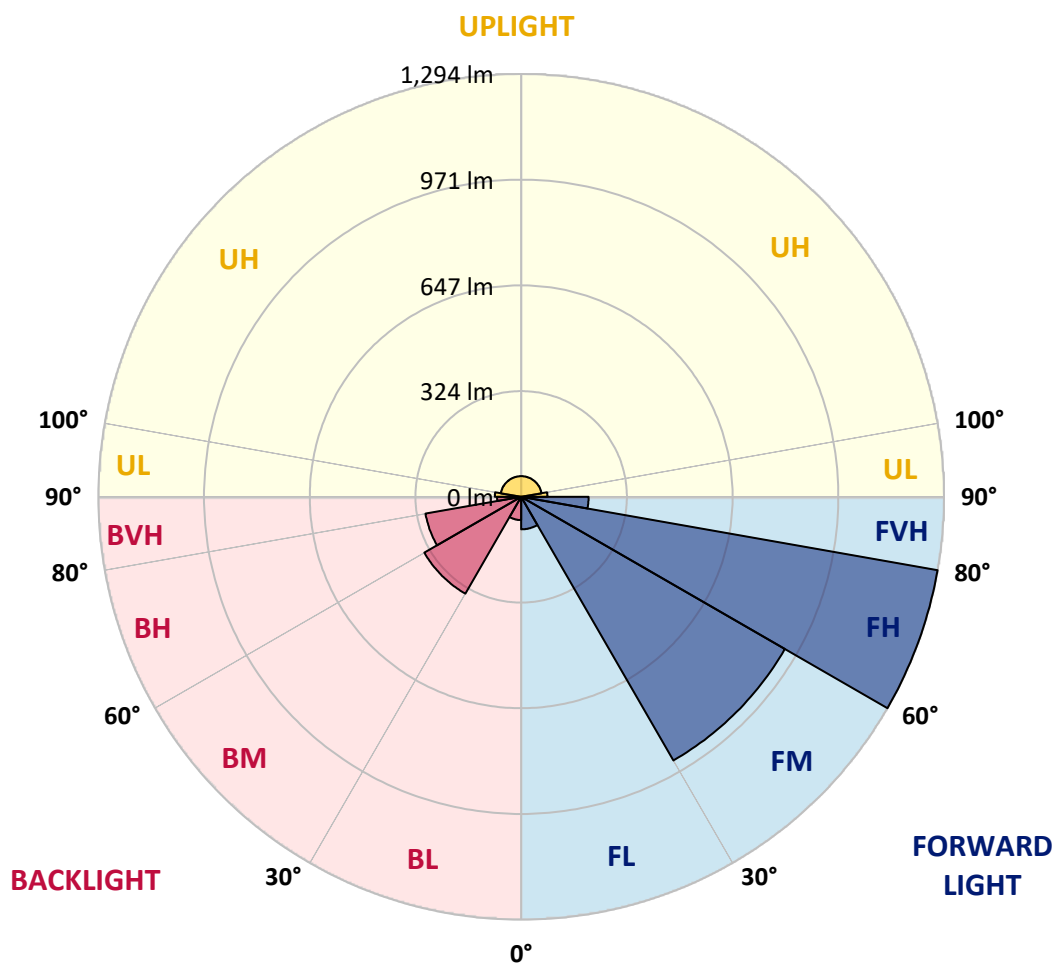
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	99.7	2.9			
FM	(30°-60°)	931.9	27.0			
FH	(60°-80°)	1294.3	37.5			G1/1800
FVH	(80°-90°)	206.2	6.0			G2/225
BL	(0°-30°)	71.3	2.1	B0/110		
BM	(30°-60°)	342.2	9.9	B1/1000		
BH	(60°-80°)	297.3	8.6	B1/500		G1/500
BVH	(80°-90°)	73.7	2.1			G1/100
UL	(90°-100°)	80.6	2.3		U3/500	
UH	(100°-180°)	63.2	1.8		U3/500	

BUG Rating: B1-U3-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
0°	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
2.5°	94.4	94.4	94.4	94.1	93.6	92.6	91.8	91.0	90.5	90.1	89.7
5°	104.2	104.6	104.2	103.7	102.3	101.1	99.4	97.9	96.2	95.3	95.0
7.5°	118.7	118.7	118.1	116.1	114.7	112.5	110.3	107.6	105.9	104.6	102.8
10°	137.1	136.3	135.4	133.0	130.1	126.5	123.8	120.8	117.8	116.9	115.2
12.5°	159.0	159.0	156.8	153.8	148.0	144.5	140.1	136.6	133.6	131.8	131.0
15°	188.5	187.1	183.3	178.4	171.3	164.3	159.4	156.8	153.8	153.8	150.6
17.5°	218.4	219.6	213.4	206.0	196.4	187.6	181.8	181.5	180.1	179.2	178.9
20°	257.5	256.1	248.7	236.0	221.8	211.3	207.4	207.8	211.3	210.9	209.1
22.5°	299.7	299.7	288.1	271.1	251.3	238.6	234.5	238.6	246.0	246.0	246.9
25°	349.7	348.0	333.5	307.5	283.9	267.2	265.4	271.5	284.8	286.9	286.0
27.5°	405.9	399.7	380.9	348.8	317.6	298.7	295.6	307.1	325.0	331.3	333.5
30°	465.7	466.1	437.1	395.4	353.3	328.2	326.9	345.3	366.9	377.4	380.1
32.5°	534.6	532.4	499.1	446.7	392.3	359.9	358.6	383.9	411.2	424.8	426.5
35°	620.3	610.2	572.8	504.4	432.8	395.9	395.0	422.7	458.2	475.4	479.8
37.5°	699.1	693.8	651.1	564.0	478.8	432.4	430.6	466.6	508.7	528.6	534.6
40°	790.8	784.6	734.5	635.3	533.9	474.5	473.5	514.5	563.1	588.3	593.5
42.5°	880.9	876.8	822.8	714.3	591.8	521.9	520.2	567.5	625.2	653.2	659.9
45°	977.4	967.5	915.2	795.2	656.3	576.8	577.7	629.2	700.3	733.2	739.8
47.5°	1060.1	1053.9	1010.1	882.7	727.5	636.5	637.8	706.4	792.9	831.2	834.3
50°	1150.2	1146.6	1103.2	975.3	813.1	710.7	713.1	790.4	894.9	938.9	954.2
52.5°	1224.8	1225.3	1192.3	1070.6	897.5	790.8	797.3	890.5	1005.7	1064.5	1073.7
55°	1297.8	1295.5	1276.2	1175.3	997.7	880.3	887.9	1001.3	1137.9	1208.9	1221.3
57.5°	1350.5	1356.3	1358.3	1275.4	1094.9	970.4	995.1	1116.4	1281.9	1358.3	1369.3
60°	1387.0	1389.6	1420.3	1375.9	1199.7	1076.8	1108.9	1244.2	1417.3	1497.7	1504.8
62.5°	1383.4	1394.9	1454.6	1451.5	1301.7	1177.9	1218.7	1364.0	1535.1	1620.3	1621.6
65°	1336.4	1355.4	1455.6	1499.5	1386.1	1273.5	1326.3	1472.2	1631.6	1699.4	1681.7
67°	1268.3	1282.8	1411.5	1502.4	1431.8	1332.9	1399.6	1538.9	1669.9	1720.4	1677.8
67.5°	1239.8	1265.7	1395.2	1499.5	1436.6	1345.7	1411.5	1556.6	1677.8	1713.8	1668.2
70°	1102.3	1122.5	1267.9	1436.6	1438.4	1384.3	1460.7	1577.7	1647.9	1640.0	1557.4
72.5°	916.0	925.3	1084.8	1298.2	1372.5	1368.9	1446.4	1523.2	1522.3	1469.9	1369.8
75°	694.1	718.7	862.5	1090.0	1235.0	1283.3	1353.6	1379.1	1318.4	1230.6	1109.2
77.5°	489.8	502.6	629.5	857.2	1043.8	1133.9	1183.5	1171.7	1060.1	956.4	846.7
80°	317.2	329.5	417.0	614.3	818.4	914.7	959.8	924.7	812.2	690.6	598.5
82.5°	192.0	202.6	264.0	412.1	601.4	709.1	731.8	698.2	572.8	471.8	399.3
85°	112.5	120.8	163.9	265.8	409.8	511.9	520.2	481.5	384.8	315.5	266.3
87.5°	68.5	72.9	103.7	170.0	271.9	345.3	362.5	326.4	259.3	210.9	179.2
90°	44.3	47.4	66.4	111.6	178.4	228.0	238.6	217.8	175.7	143.6	123.4
92.5°	30.4	33.3	46.2	74.6	117.3	151.2	157.7	143.2	118.1	101.1	90.1
95°	23.3	24.7	35.2	52.7	79.9	101.1	107.2	97.6	82.6	74.2	67.6
97.5°	18.9	19.8	28.0	40.9	58.0	72.6	75.1	68.1	61.1	55.8	52.7
100°	16.3	16.7	23.7	33.3	45.3	54.9	56.2	50.9	46.2	43.5	40.9
102.5°	14.6	14.9	20.7	28.6	36.9	43.5	43.5	39.5	35.2	33.3	32.1
105°	12.8	13.1	18.4	24.7	31.6	35.7	35.7	31.3	27.3	25.5	25.1
107.5°	11.4	11.9	15.8	21.5	26.8	29.9	29.5	25.1	20.7	18.9	18.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	10.5	10.5	14.1	18.9	22.8	25.5	24.2	20.2	15.8	14.6	14.9
112.5°	9.6	9.6	12.2	16.3	20.2	22.0	20.2	16.7	12.2	11.4	11.9
115°	9.3	9.3	11.0	14.6	17.5	18.4	17.2	13.7	10.2	9.3	9.6
117.5°	8.4	8.4	10.2	12.8	14.9	15.8	14.6	11.0	8.4	7.9	8.4
120°	7.9	7.9	8.9	11.0	13.1	13.7	12.2	9.3	7.0	7.0	7.5
122.5°	7.5	7.5	8.4	9.6	11.4	11.9	10.5	7.5	6.2	6.2	6.6
125°	7.5	7.5	7.5	8.9	9.6	10.2	8.9	6.6	5.7	5.7	6.2
127.5°	7.0	7.0	7.0	7.5	8.4	8.4	7.5	5.3	4.9	5.3	5.3
130°	6.6	6.6	6.6	7.0	7.5	7.0	6.2	4.4	4.4	4.9	4.9
132.5°	6.2	6.2	6.2	6.2	6.2	5.7	4.9	4.0	4.0	4.4	4.4
135°	5.7	5.7	5.7	5.3	5.3	4.9	4.0	3.1	3.6	4.0	4.0
137.5°	5.3	5.3	5.3	4.9	4.4	3.6	2.6	2.6	3.1	3.6	3.6
140°	4.9	4.9	4.4	4.0	3.6	2.6	1.7	2.2	2.6	2.6	3.1
142.5°	4.0	4.0	4.0	3.1	2.2	1.7	1.3	1.3	2.2	2.2	2.2
145°	3.6	3.6	3.1	2.6	1.7	0.9	0.4	0.9	1.3	1.7	1.7
147.5°	2.6	2.6	2.6	1.7	0.9	0.4	0.4	0.4	0.9	1.3	1.3
150°	2.2	2.2	1.7	1.3	0.4	0.0	0.0	0.4	0.9	0.9	0.9
152.5°	1.3	1.3	1.3	0.9	0.0	0.0	0.0	0.4	0.4	0.4	0.4
155°	0.9	0.9	0.9	0.4	0.0	0.0	0.0	0.0	0.4	0.4	0.4
157.5°	0.4	0.4	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°	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
2.5°	89.2	88.8	88.4	87.5	87.0	86.1	85.2	84.8	84.4	84.4	84.4
5°	94.1	93.6	92.3	90.5	89.2	87.9	87.0	86.1	85.2	85.2	85.2
7.5°	101.9	101.1	98.5	96.7	94.4	92.6	91.4	90.1	89.7	89.7	89.2
10°	113.4	112.0	109.0	105.5	102.3	100.3	98.5	97.0	96.7	96.7	96.7
12.5°	128.3	126.5	121.7	117.3	112.5	109.5	107.2	106.8	107.2	107.2	106.8
15°	149.7	146.3	138.8	131.8	124.3	119.6	118.1	118.1	120.4	121.2	121.7
17.5°	175.7	171.3	161.2	149.7	138.3	131.8	131.0	133.6	138.3	140.6	140.1
20°	207.8	201.7	187.6	170.5	154.7	146.3	145.4	150.2	156.8	161.2	160.7
22.5°	243.8	238.1	217.0	192.0	170.0	160.3	159.0	166.9	176.5	181.5	183.3
25°	283.9	275.9	248.2	213.9	186.3	172.7	172.2	181.8	194.7	203.3	204.8
27.5°	327.3	318.1	281.6	236.0	200.3	182.7	182.4	195.6	213.1	224.0	224.4
30°	375.2	361.1	314.5	254.4	210.9	189.8	190.7	206.0	228.4	241.1	243.4
32.5°	422.7	406.8	344.4	272.4	217.8	193.3	194.7	213.9	238.6	254.8	256.6
35°	472.7	452.4	374.4	284.3	221.8	193.8	195.0	217.0	243.8	261.3	263.2
37.5°	523.3	499.1	399.3	293.0	221.8	191.1	192.9	216.1	243.4	261.3	262.8
40°	583.0	547.8	423.1	296.5	218.4	186.3	188.5	211.3	236.9	253.5	254.8
42.5°	645.0	602.8	445.5	295.6	212.2	180.1	182.4	203.3	225.8	239.5	240.7
45°	719.6	668.2	468.3	293.0	204.8	173.6	174.9	193.8	212.5	222.3	224.0
47.5°	811.3	738.4	491.6	288.1	196.4	167.4	168.3	185.0	198.5	204.8	206.0
50°	913.3	821.5	517.1	281.6	188.5	161.7	163.0	176.5	186.3	189.0	189.4
52.5°	1034.2	915.6	540.8	273.8	181.5	157.3	159.0	171.3	178.0	178.4	178.9
55°	1164.7	1018.4	561.9	264.0	174.5	154.1	157.7	169.2	173.6	173.2	173.6
57.5°	1300.8	1117.2	576.4	254.0	168.7	152.4	158.1	169.2	173.6	172.7	173.6
60°	1422.6	1202.0	578.6	240.7	164.3	152.4	160.7	172.2	176.2	176.2	177.1
62.5°	1509.2	1250.8	564.0	227.6	160.3	153.3	164.3	176.2	180.1	180.1	181.0
65°	1544.2	1249.9	532.4	213.4	157.3	154.7	167.9	180.6	183.7	183.7	184.5
67°	1517.9	1208.9	491.6	202.9	155.5	155.9	170.5	183.3	185.8	185.4	185.8
67.5°	1501.6	1194.6	482.7	200.0	155.0	155.9	170.9	183.7	186.3	185.8	185.8
70°	1367.2	1071.0	422.3	186.7	152.1	155.9	172.7	184.5	186.3	185.4	185.4
72.5°	1159.4	896.1	354.1	173.6	148.5	154.7	171.8	183.3	184.2	182.7	182.7
75°	922.1	701.1	290.8	162.1	143.6	151.5	168.7	179.2	180.6	179.2	178.0
77.5°	682.7	519.3	235.0	149.7	138.0	146.8	163.4	173.6	174.9	173.6	172.2
80°	476.2	369.1	189.4	137.5	130.4	139.6	155.9	164.7	166.5	165.6	163.4
82.5°	318.4	253.5	151.5	123.8	120.8	130.4	145.9	153.8	155.0	154.1	151.5
85°	217.5	176.5	125.3	109.5	110.3	119.6	132.7	138.8	140.1	138.8	136.3
87.5°	146.3	126.5	102.3	95.3	97.9	106.8	117.3	120.4	123.0	120.8	119.0
90°	105.9	95.3	82.6	81.2	85.7	93.2	100.3	100.6	104.2	103.2	99.7
92.5°	79.5	74.6	68.5	68.5	73.4	79.5	83.9	83.1	85.2	85.2	82.6
95°	62.8	60.1	57.1	58.4	62.8	67.3	68.5	66.7	69.0	69.3	68.5
97.5°	50.6	49.6	48.8	49.6	53.5	57.1	56.7	53.5	55.3	56.2	55.3
100°	40.9	40.5	40.9	42.6	45.8	47.9	46.5	43.5	44.8	44.8	44.8
102.5°	33.0	33.0	34.2	36.0	38.2	40.0	38.2	35.7	36.0	35.7	35.7
105°	26.0	26.4	28.0	30.4	32.1	33.0	31.3	28.6	28.0	26.8	27.3
107.5°	20.2	21.1	22.8	25.1	26.8	27.3	26.0	23.3	21.5	20.7	20.7



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CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	15.8	16.7	18.9	20.7	22.0	22.4	21.1	18.4	16.3	15.8	15.8
112.5°	12.8	13.7	15.5	17.2	18.4	18.4	17.2	14.9	12.2	11.9	11.9
115°	10.5	11.0	12.8	14.1	15.5	15.5	14.1	11.9	9.6	9.3	9.6
117.5°	8.9	9.3	10.5	11.9	12.8	12.8	11.4	9.3	7.5	7.5	7.5
120°	7.9	8.4	9.3	10.2	10.5	10.5	9.6	7.5	6.2	6.2	6.2
122.5°	7.0	7.0	7.9	8.4	9.3	8.9	7.9	6.2	4.9	5.3	5.3
125°	6.2	6.6	6.6	7.5	7.5	7.5	6.2	4.9	4.4	4.4	4.4
127.5°	5.7	5.7	6.2	6.2	6.6	6.2	4.9	3.6	3.6	4.0	4.0
130°	5.3	5.3	5.3	5.3	5.3	4.9	4.0	3.1	3.1	3.6	3.6
132.5°	4.4	4.9	4.9	4.4	4.4	4.0	3.1	2.2	2.6	2.6	2.6
135°	4.0	4.4	4.0	4.0	3.6	3.1	2.2	1.7	2.2	2.2	2.2
137.5°	3.6	3.6	3.6	3.1	2.6	2.2	1.7	1.3	1.7	1.7	1.7
140°	3.1	3.1	3.1	2.6	2.2	1.7	0.9	0.9	1.3	1.3	1.3
142.5°	2.2	2.6	2.2	1.7	1.3	0.9	0.4	0.4	0.9	1.3	0.9
145°	1.7	1.7	1.7	1.3	0.9	0.4	0.0	0.0	0.4	0.4	0.4
147.5°	1.3	1.3	1.3	0.9	0.4	0.4	0.0	0.0	0.0	0.4	0.4
150°	0.9	0.9	0.9	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.4	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)