

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: P266376

Luminaire Tested: **UTLD-AF24-50-D-U-T2U-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-33)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-50-D-U-T2U-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4498.1 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U3 - G2

Input Watts (W): 54
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



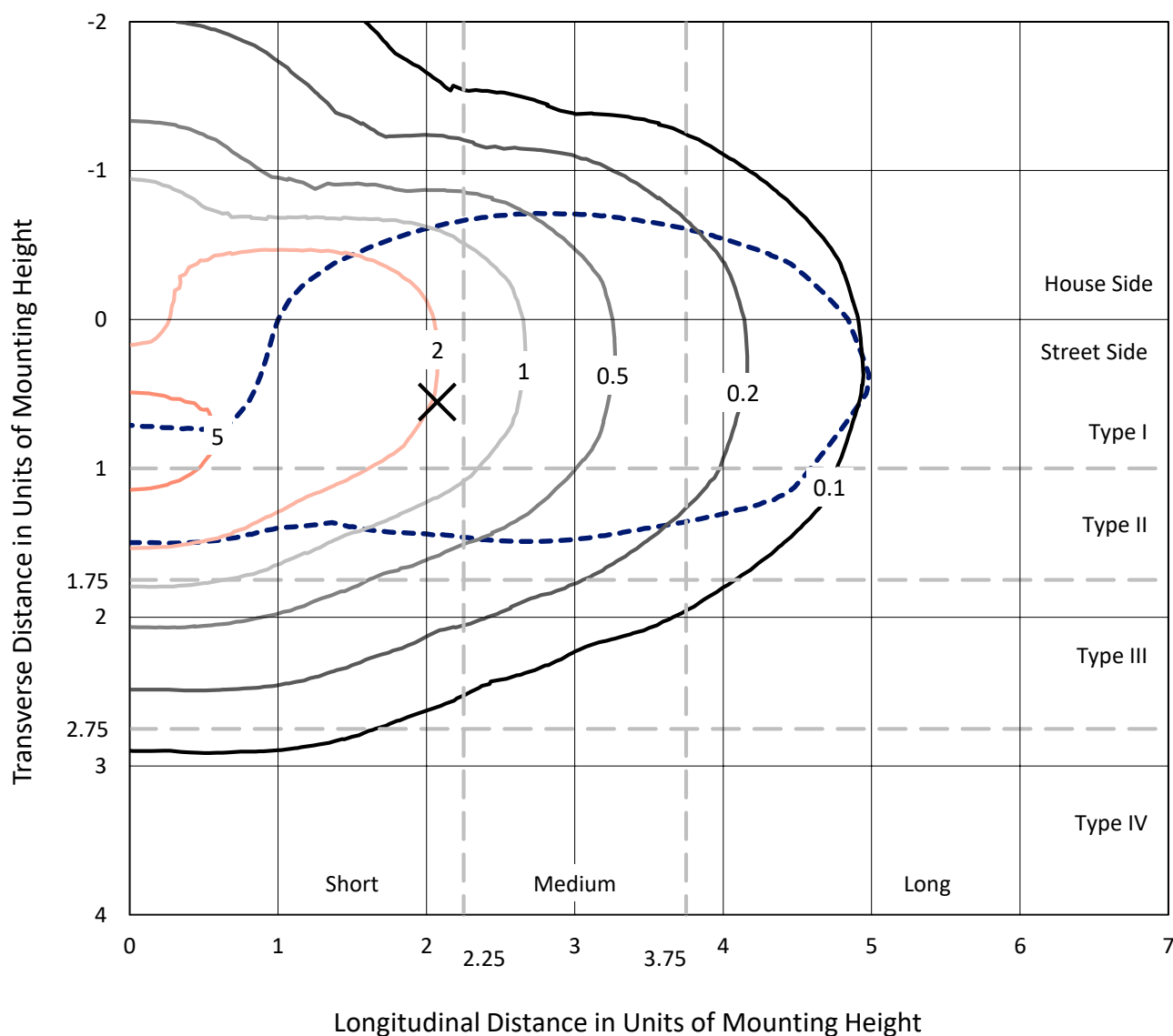
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

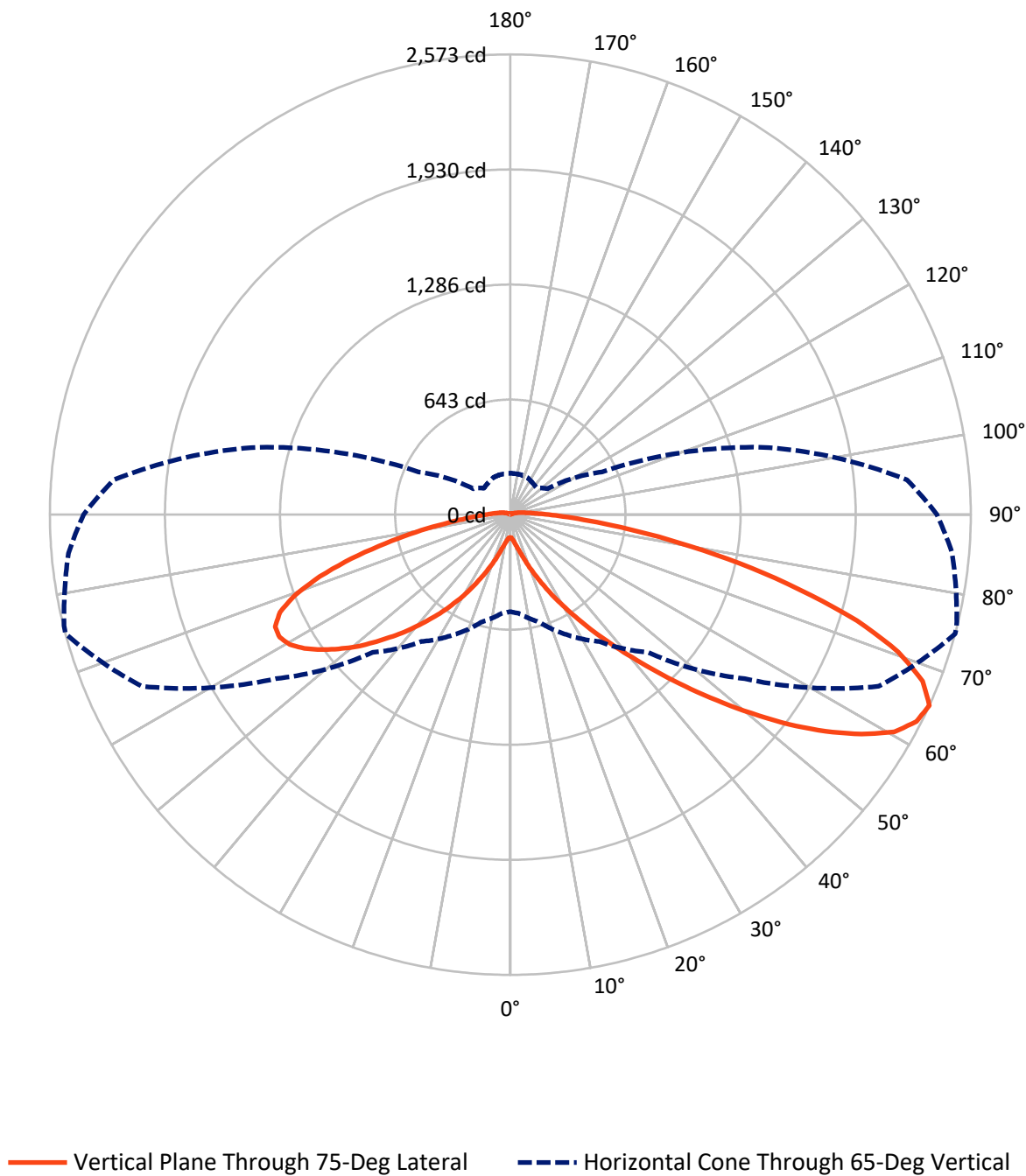


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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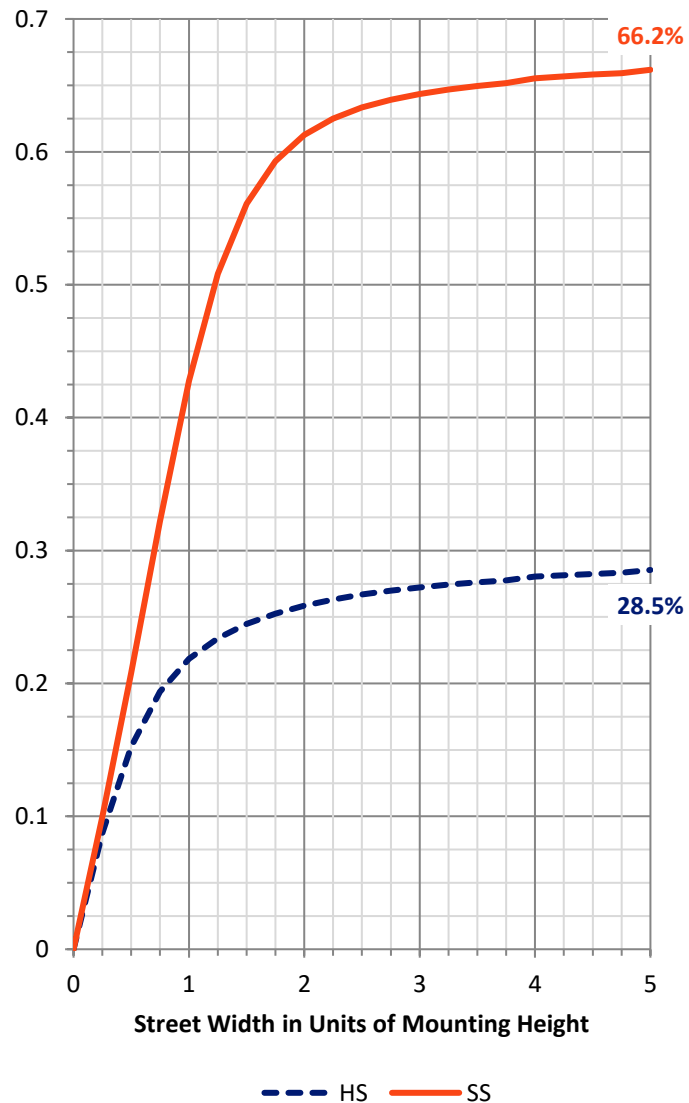
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1328.1	79.6	1407.8
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	3018.7	71.7	3090.4
	% Fixture	67.1	1.6	68.7
Total	Lumens	4346.8	151.3	4498.1
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.1	0.3
10°-20°	65.1	1.4
20°-30°	189.7	4.2
30°-40°	425.5	9.5
40°-50°	757.2	16.8
50°-60°	1028.9	22.9
60°-70°	999.2	22.2
70°-80°	629.8	14.0
80°-90°	237.5	5.3
90°-100°	80.9	1.8
100°-110°	36.6	0.8
110°-120°	17.6	0.4
120°-130°	9.3	0.2
130°-140°	4.8	0.1
140°-150°	1.8	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4346.8	96.6
0°-180°	4498.1	100.0

Coefficient of Utilization



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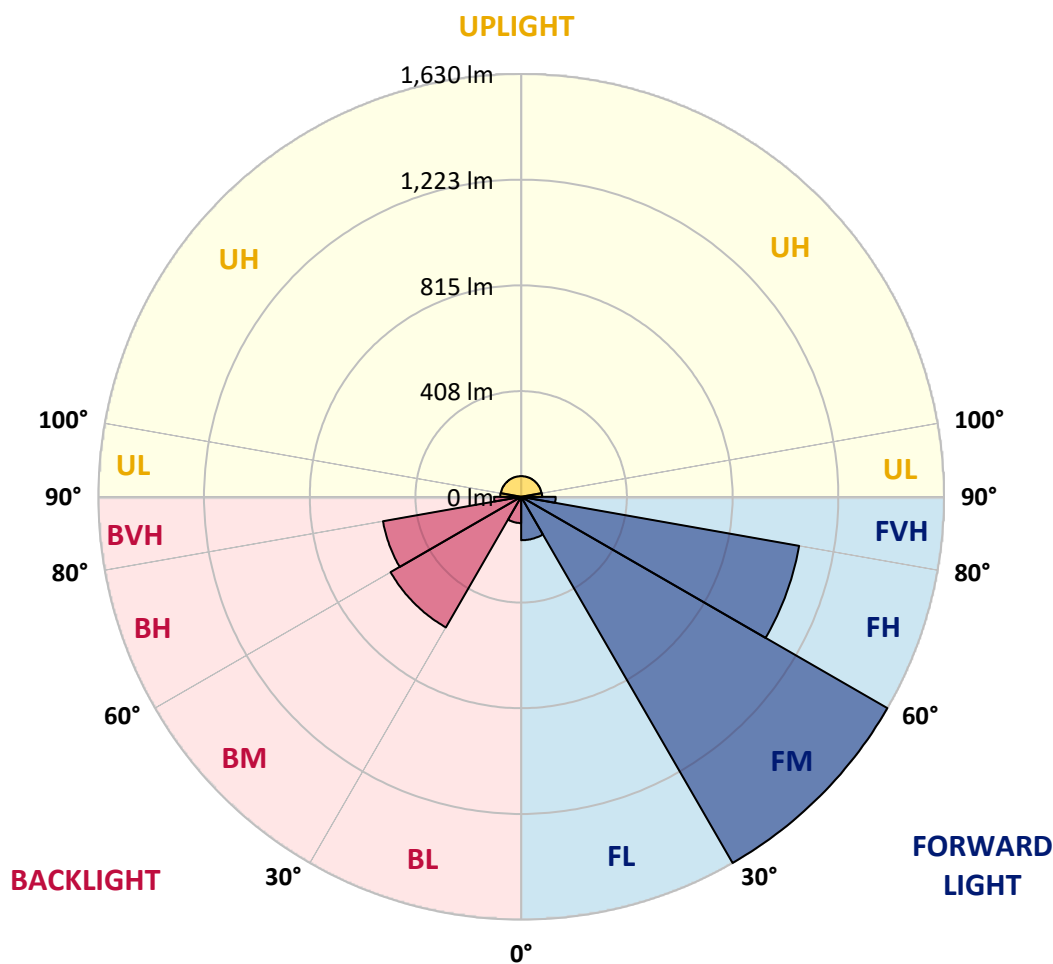
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	167.5	3.7			
FM	(30°-60°)	1630.2	36.2			
FH	(60°-80°)	1088.1	24.2			G1/1800
FVH	(80°-90°)	132.9	3.0			G2/225
BL	(0°-30°)	101.3	2.3	B0/110		
BM	(30°-60°)	581.4	12.9	B1/1000		
BH	(60°-80°)	540.9	12.0	B2/1000		G2/1000
BVH	(80°-90°)	104.6	2.3			G2/225
UL	(90°-100°)	80.9	1.8		U3/500	
UH	(100°-180°)	79.6	1.8		U3/500	

BUG Rating: B2-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	127.9	127.9	127.9	127.9	127.9	127.9	127.9	127.9	127.9	127.9	127.9
2.5°	139.1	138.6	138.6	138.6	137.4	136.4	134.7	133.5	131.8	131.2	130.8
5°	153.8	153.8	153.3	152.6	151.5	148.7	146.0	143.6	140.9	140.2	138.0
7.5°	176.8	176.3	175.8	173.0	171.2	167.4	162.9	159.4	154.4	154.4	150.9
10°	207.2	206.3	204.5	201.7	195.6	190.4	185.3	179.1	174.1	173.6	168.4
12.5°	243.4	243.4	241.1	235.4	227.6	220.3	211.8	205.1	198.3	197.7	193.2
15°	292.9	293.4	286.2	277.8	266.4	255.2	244.5	238.3	230.4	232.1	226.0
17.5°	354.3	353.3	347.0	330.0	311.5	296.9	284.6	277.8	271.6	272.0	267.5
20°	431.5	430.4	419.7	397.2	366.8	344.8	330.0	325.6	322.2	320.5	316.1
22.5°	526.8	521.0	499.6	470.4	433.8	402.3	386.5	379.8	378.5	379.2	374.7
25°	633.1	631.0	603.9	557.2	509.8	469.3	445.0	443.9	445.6	442.8	442.8
27.5°	762.8	756.6	725.0	660.3	592.6	544.3	516.0	513.2	521.0	518.9	515.4
30°	914.4	904.8	862.0	779.1	692.4	627.6	594.9	594.9	603.3	603.3	602.3
32.5°	1072.5	1070.9	1004.5	907.6	805.1	719.5	691.2	686.8	695.2	699.7	694.0
35°	1250.6	1237.7	1161.1	1051.1	918.8	824.7	789.8	796.0	802.7	803.4	794.3
37.5°	1432.0	1419.1	1331.2	1195.5	1041.0	939.6	903.7	908.0	918.8	918.8	907.0
40°	1587.6	1573.4	1487.2	1345.8	1176.3	1067.5	1029.3	1042.3	1049.5	1052.4	1033.2
42.5°	1710.4	1700.2	1623.0	1478.8	1306.3	1196.0	1171.2	1192.6	1200.0	1205.5	1177.9
45°	1779.1	1770.6	1717.1	1586.9	1415.6	1324.5	1329.0	1354.9	1368.9	1362.6	1332.8
47.5°	1789.8	1783.0	1753.1	1654.0	1516.0	1447.8	1490.6	1529.5	1551.0	1551.5	1500.8
50°	1723.3	1726.2	1726.6	1669.8	1572.4	1548.0	1641.7	1728.9	1745.2	1736.2	1676.4
52.5°	1594.2	1592.5	1625.3	1625.3	1582.5	1610.0	1768.4	1924.3	1946.9	1944.7	1861.8
55°	1402.8	1404.4	1465.2	1513.1	1528.9	1623.0	1872.0	2101.2	2138.4	2135.1	2043.9
57.5°	1164.5	1180.7	1255.7	1347.5	1419.1	1567.8	1919.9	2253.4	2314.3	2314.8	2204.4
60°	932.9	949.8	1037.2	1154.9	1258.5	1461.4	1887.8	2332.3	2465.8	2459.6	2342.4
62.5°	712.6	730.1	814.0	948.2	1068.7	1291.1	1778.5	2348.6	2546.3	2542.4	2441.6
65°	542.4	553.7	621.4	739.1	865.8	1087.8	1598.8	2270.8	2572.7	2570.1	2478.2
67.5°	405.7	410.6	474.9	570.2	679.9	879.9	1350.3	2083.8	2484.9	2487.8	2436.5
70°	312.2	315.5	362.2	445.0	526.8	687.8	1094.0	1813.9	2300.1	2307.4	2305.8
72.5°	247.8	253.0	290.2	350.3	409.5	521.0	846.2	1467.6	2026.3	2041.6	2087.2
75°	204.5	210.2	238.3	282.7	325.6	396.6	615.2	1126.1	1665.7	1697.9	1799.3
77.5°	169.1	174.6	198.3	233.2	259.7	303.1	450.7	832.5	1308.7	1322.1	1456.2
80°	138.6	143.6	165.1	192.1	211.2	236.7	328.4	584.7	954.3	971.2	1102.0
82.5°	110.4	115.0	134.7	156.7	172.4	189.8	243.4	400.6	664.7	677.1	763.3
85°	85.1	89.7	106.4	125.7	139.1	153.3	186.5	278.8	440.0	454.6	517.8
87.5°	63.7	67.6	81.7	98.1	112.1	124.0	143.6	192.6	293.4	306.0	335.7
90°	46.7	49.5	62.0	74.4	87.3	100.3	112.6	140.9	195.6	200.5	221.4
92.5°	34.9	36.7	46.7	57.4	69.9	81.1	89.0	103.7	137.4	138.0	152.6
95°	26.0	27.6	36.0	45.0	55.8	66.5	73.2	80.6	100.8	102.5	111.5
97.5°	20.8	21.4	28.7	36.7	45.6	54.6	60.2	64.1	77.2	79.0	85.1
100°	17.4	18.1	24.3	31.0	38.8	46.7	50.8	52.5	60.8	62.5	67.1
102.5°	15.2	15.2	20.8	27.0	33.7	39.4	42.2	43.4	49.0	49.0	52.5
105°	13.6	13.6	18.1	23.6	29.3	34.3	36.0	36.0	38.3	38.8	40.6
107.5°	12.3	12.3	16.3	21.4	26.0	29.9	31.0	29.9	30.5	30.5	31.5
110°	11.3	11.3	14.1	19.1	23.0	26.0	26.5	25.3	23.6	23.6	24.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	10.2	10.7	12.9	16.9	20.3	23.0	23.0	21.4	18.5	18.5	19.8
115°	9.6	9.6	11.9	15.2	18.1	20.3	20.3	18.1	15.2	14.6	15.8
117.5°	9.1	9.1	10.2	13.6	16.3	18.1	18.1	15.2	12.3	12.3	13.6
120°	8.4	8.4	9.6	12.3	14.6	16.3	15.8	13.6	10.7	10.7	11.9
122.5°	8.4	8.4	9.1	11.3	12.9	14.1	13.6	11.3	9.1	9.1	10.2
125°	7.8	7.8	8.4	10.2	11.9	12.9	11.9	9.6	8.4	8.4	9.1
127.5°	7.8	7.8	7.8	9.1	10.7	11.3	10.7	8.4	7.4	7.4	8.4
130°	7.4	7.4	7.8	8.4	9.6	10.2	9.1	7.4	6.7	6.7	7.8
132.5°	7.4	7.4	7.4	7.4	7.8	8.4	7.4	5.6	6.2	6.2	6.7
135°	6.7	6.7	6.7	6.7	7.4	7.4	6.2	5.1	5.6	5.6	6.2
137.5°	6.2	6.2	6.2	6.2	6.2	5.6	5.1	4.5	5.1	5.1	5.6
140°	5.6	5.6	5.6	5.1	4.5	4.5	4.0	3.4	4.0	4.0	4.5
142.5°	5.1	5.1	5.1	4.5	4.0	3.4	2.9	2.9	3.4	3.4	4.0
145°	4.5	4.5	4.0	3.4	2.9	2.2	1.6	2.2	2.9	2.9	3.4
147.5°	3.4	3.4	3.4	2.9	1.6	1.1	1.1	1.6	2.2	2.2	2.2
150°	2.9	2.9	2.9	2.2	1.1	0.5	0.5	1.1	1.1	1.1	1.6
152.5°	1.6	1.6	1.6	1.6	0.5	0.0	0.0	0.5	1.1	1.1	1.1
155°	1.1	1.1	1.1	0.5	0.5	0.0	0.0	0.5	0.5	0.5	0.5
157.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.5
160°	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.5	0.0
162.5°	0.0	0.0	0.0	0.5	0.5	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°	127.9	127.9	127.9	127.9	127.9	127.9	127.9	127.9	127.9	127.9	127.9
2.5°	130.2	129.5	128.5	127.3	126.2	125.0	124.0	123.3	122.3	122.3	122.3
5°	136.9	135.3	132.9	130.8	128.5	126.8	125.0	123.3	122.3	121.7	121.1
7.5°	149.3	147.1	143.1	139.6	135.7	132.4	129.5	127.3	126.2	125.7	125.7
10°	166.1	163.4	158.3	151.5	147.1	141.9	137.4	134.7	132.4	131.8	131.2
12.5°	188.7	185.9	177.4	170.0	161.7	153.8	148.7	145.3	143.6	143.1	143.1
15°	220.9	217.5	203.9	191.6	178.0	168.4	161.7	158.9	159.4	161.2	159.4
17.5°	260.8	255.7	239.9	219.6	199.5	184.8	178.6	179.1	181.4	183.1	182.5
20°	310.5	303.1	281.1	252.3	224.8	205.1	198.9	199.5	202.3	207.2	206.7
22.5°	368.5	357.2	329.0	290.2	251.3	228.7	217.5	219.1	225.4	230.4	230.4
25°	432.1	421.9	382.0	330.0	281.7	248.4	234.4	236.7	245.6	251.3	253.0
27.5°	507.6	491.8	442.2	374.7	310.5	265.9	248.4	249.5	260.8	268.1	269.3
30°	588.1	569.5	507.6	419.1	335.7	279.5	256.8	259.2	271.6	280.0	281.7
32.5°	678.8	656.9	575.8	466.0	359.4	287.3	261.3	263.7	276.6	286.2	287.3
35°	779.6	747.6	648.9	508.7	375.2	290.2	261.3	264.2	276.6	286.2	287.8
37.5°	882.1	846.2	720.5	549.9	384.7	287.8	257.5	260.8	272.0	281.1	282.7
40°	1001.6	955.4	798.9	583.5	388.2	281.7	250.6	254.6	264.2	271.6	272.6
42.5°	1138.0	1072.5	881.1	612.4	383.0	273.9	243.9	248.4	256.3	261.3	261.9
45°	1279.4	1200.5	961.0	634.9	375.8	264.2	237.2	242.3	249.0	250.1	251.3
47.5°	1432.0	1344.1	1048.4	648.3	362.7	254.1	232.1	237.2	241.6	241.1	241.6
50°	1601.0	1492.9	1137.4	654.1	348.2	245.6	228.2	233.7	237.2	234.4	234.4
52.5°	1766.1	1655.7	1218.6	656.3	331.8	237.7	225.4	232.1	233.7	231.0	231.0
55°	1941.9	1806.1	1299.7	650.2	315.5	231.6	224.1	231.6	232.8	228.7	228.7
57.5°	2104.1	1966.6	1372.9	640.5	300.3	226.0	222.5	231.0	232.1	228.7	229.2
60°	2253.4	2102.9	1429.7	624.7	284.0	220.3	221.4	231.0	232.1	229.8	231.0
62.5°	2344.7	2193.1	1459.7	600.0	268.1	215.2	219.6	229.8	232.1	230.4	231.6
65°	2384.1	2225.2	1455.7	564.5	253.0	208.9	216.3	227.6	230.4	230.4	231.6
67.5°	2354.2	2195.9	1398.2	518.9	238.9	202.7	211.8	223.0	227.0	228.2	229.8
70°	2243.2	2074.7	1282.7	461.4	223.7	196.0	206.3	216.9	221.4	223.7	224.8
72.5°	2021.8	1871.3	1118.7	403.9	207.9	187.6	197.7	207.9	213.0	215.8	215.8
75°	1740.7	1590.3	921.0	343.2	193.2	178.0	187.6	196.0	201.7	204.5	203.3
77.5°	1400.5	1260.2	715.4	281.1	177.4	166.7	175.8	183.1	187.6	189.8	187.0
80°	1037.7	948.2	537.5	232.1	161.7	153.8	161.2	167.4	172.4	171.8	169.6
82.5°	735.7	651.2	376.3	192.6	146.0	139.6	145.3	149.3	152.6	151.5	147.6
85°	490.1	434.9	265.9	157.2	129.5	124.4	127.9	130.2	131.8	128.9	126.2
87.5°	318.9	284.0	191.6	129.5	112.1	108.8	110.4	111.0	111.5	108.8	105.3
90°	208.4	193.8	142.6	107.1	96.3	94.1	94.1	91.8	92.3	89.0	85.6
92.5°	147.1	138.0	111.0	87.9	82.3	80.6	79.9	77.2	76.6	73.2	71.0
95°	109.9	105.9	89.7	74.4	69.9	69.3	68.2	65.3	63.2	59.6	58.6
97.5°	85.6	83.9	73.8	63.7	60.2	59.2	58.6	55.2	53.4	50.1	49.0
100°	68.2	68.2	62.0	54.6	51.8	51.3	50.8	47.3	45.6	42.2	41.7
102.5°	54.6	55.2	51.8	47.3	45.0	43.9	42.8	40.6	37.8	35.6	35.6
105°	42.8	43.9	42.8	40.1	38.8	37.8	36.7	34.3	31.5	29.3	29.3
107.5°	33.7	34.9	34.9	34.3	32.7	32.1	31.5	28.7	26.5	24.3	24.3
110°	26.0	27.6	28.7	28.7	28.7	27.6	26.5	24.9	22.0	20.3	20.3



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CATALOG NUMBER: UTLD-AF24-50-D-U-T2U-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	20.8	22.0	23.6	24.3	24.3	24.3	23.0	20.3	18.1	16.9	17.4
115°	16.9	18.1	19.8	20.8	20.8	20.8	19.1	17.4	15.2	14.6	14.6
117.5°	14.1	15.2	16.3	18.1	18.1	18.1	16.9	14.6	12.3	12.3	12.3
120°	12.3	12.9	14.6	15.2	15.8	15.8	14.6	12.3	10.7	10.7	11.3
122.5°	10.7	11.3	12.3	13.6	14.1	13.6	12.3	10.2	9.1	9.6	9.6
125°	9.6	10.2	10.7	11.9	12.3	11.9	10.7	8.4	7.8	8.4	8.4
127.5°	9.1	9.1	9.6	10.2	10.7	10.2	9.1	7.4	6.7	7.8	7.8
130°	7.8	8.4	8.4	9.1	9.1	9.1	7.8	6.2	6.2	6.7	6.7
132.5°	7.4	7.4	7.4	7.8	7.8	7.4	6.2	5.1	5.6	6.2	6.2
135°	6.2	6.7	6.7	6.7	6.7	6.2	5.1	4.5	5.1	5.6	5.6
137.5°	5.6	5.6	5.6	5.6	5.6	5.1	4.5	4.0	4.5	4.5	4.5
140°	4.5	5.1	5.1	4.5	4.5	4.0	3.4	2.9	3.4	4.0	4.0
142.5°	4.0	4.0	4.0	4.0	3.4	2.9	2.2	2.2	2.9	2.9	2.9
145°	3.4	3.4	3.4	2.9	2.2	2.2	1.6	1.6	2.2	2.2	2.9
147.5°	2.2	2.2	2.2	2.2	1.6	1.6	1.1	1.1	1.6	1.6	1.6
150°	1.6	1.6	1.6	1.6	1.1	1.1	1.1	0.5	1.1	1.1	1.1
152.5°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5
155°	0.5	0.5	1.1	1.1	0.5	0.5	0.5	0.0	0.0	0.0	0.0
157.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
160°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
162.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	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)