

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: P266367

Luminaire Tested: **UTLD-AF24-50-D-U-SL3-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-48)
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-SL3-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4449.1 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U2 - G2

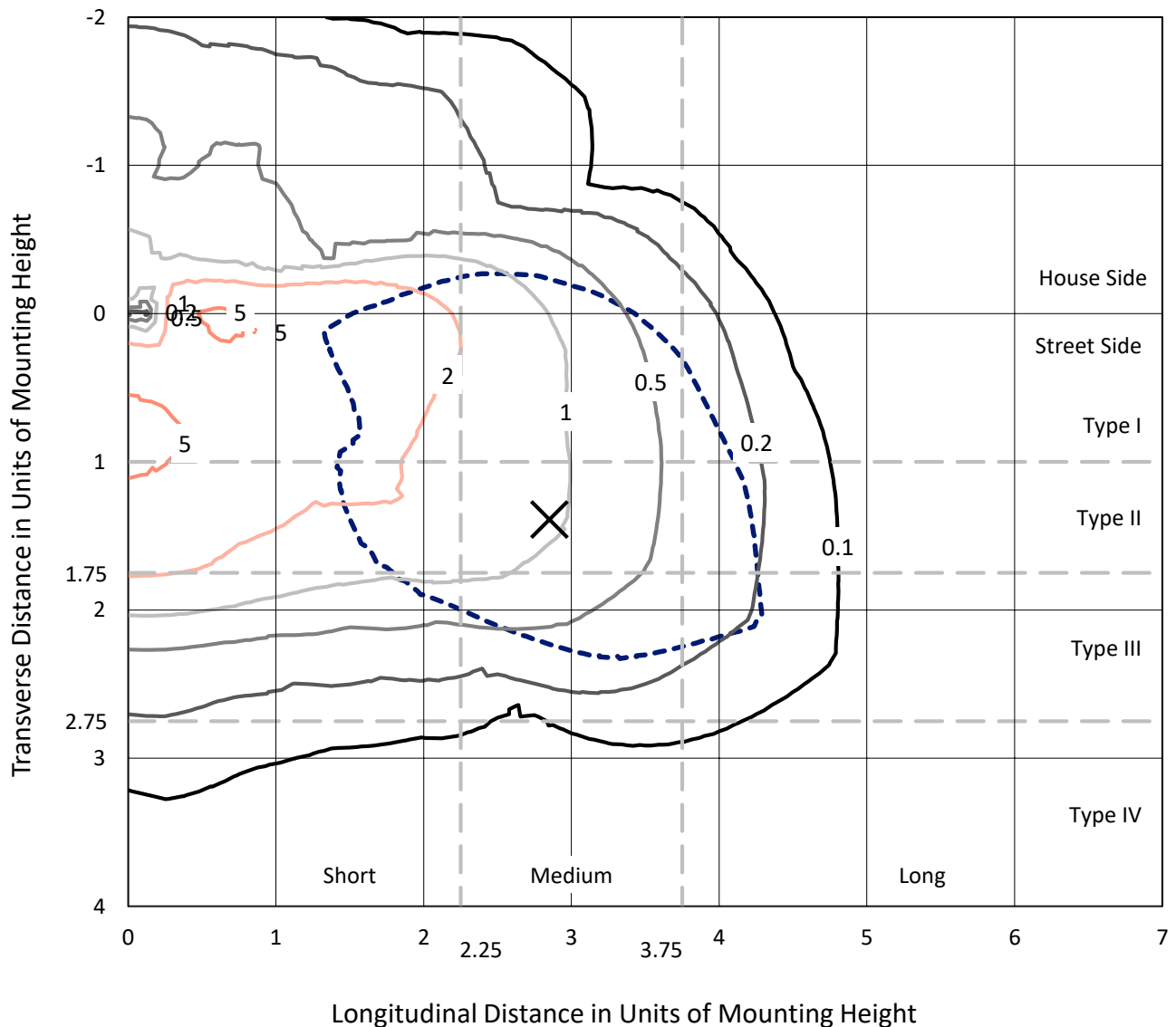
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

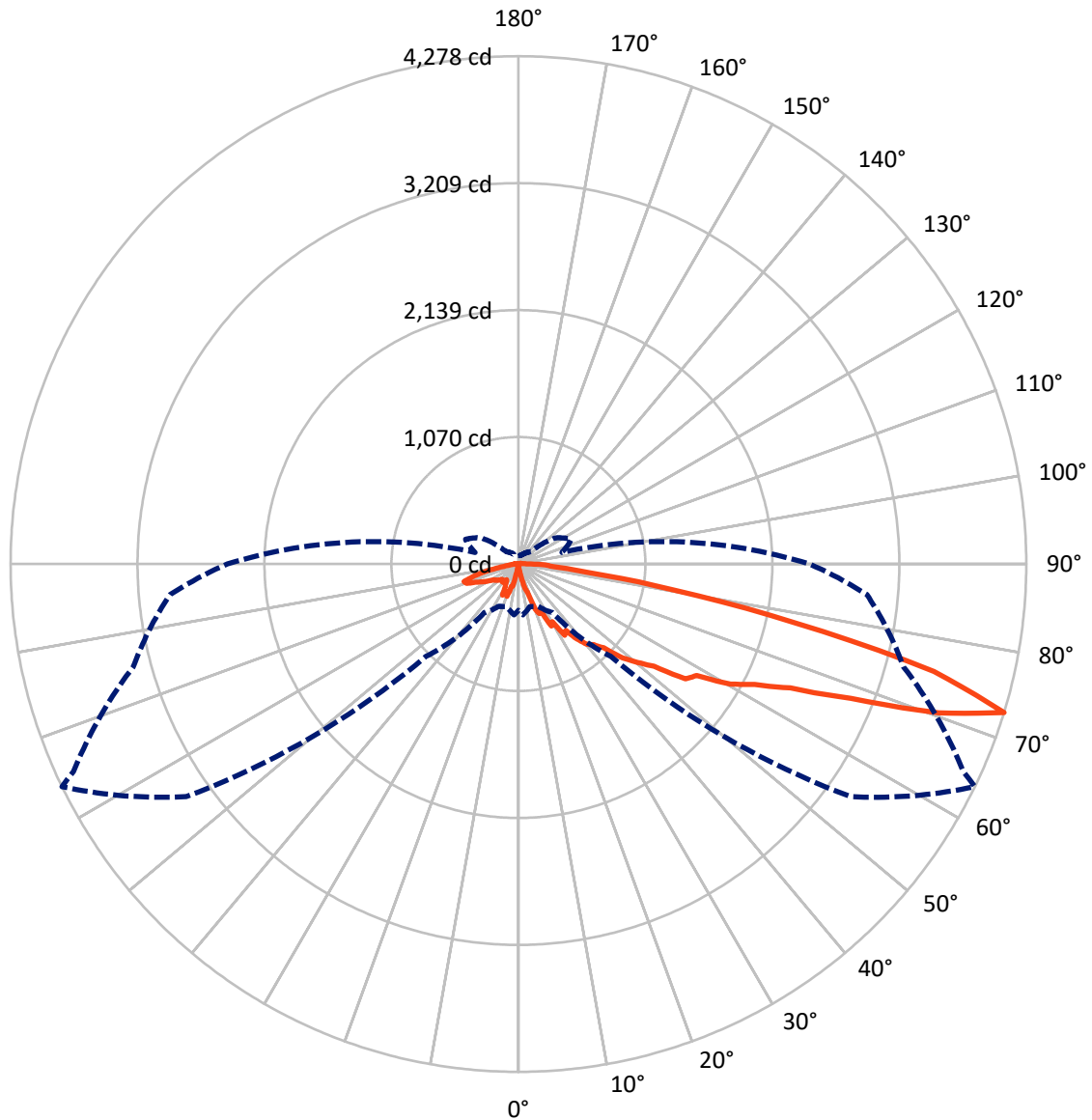
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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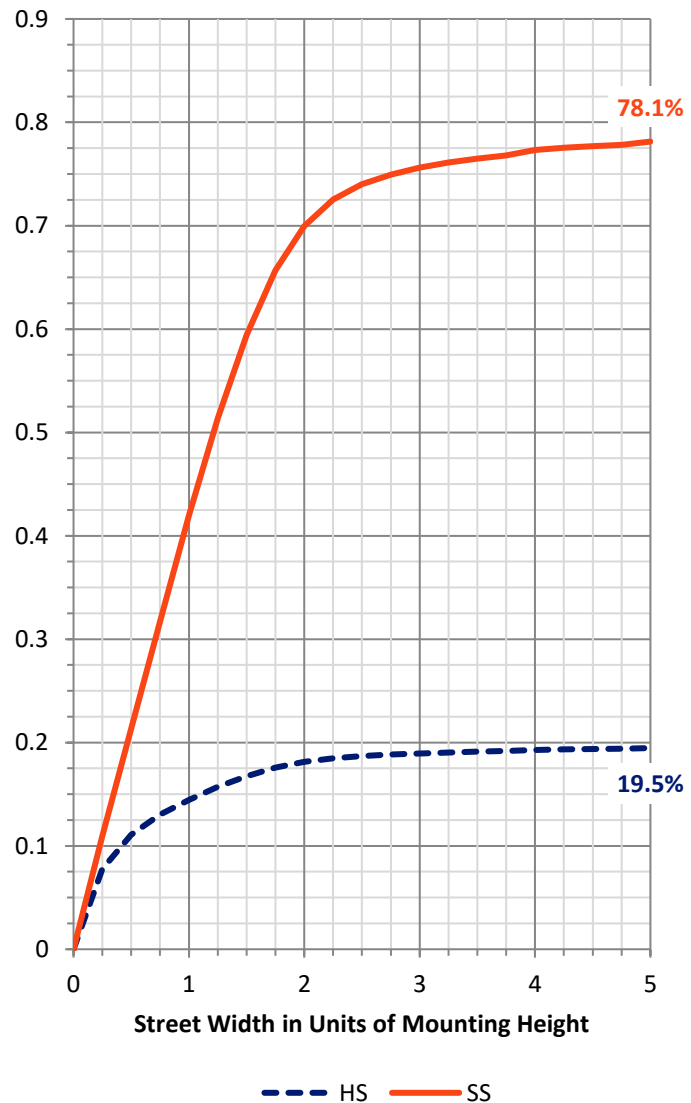
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	880.7	27.4	908.1
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	3512.6	28.4	3540.9
	% Fixture	79.0	0.6	79.6
Total	Lumens	4393.3	55.8	4449.1
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.1
10°-20°	59.4	1.3
20°-30°	174.8	3.9
30°-40°	346.7	7.8
40°-50°	598.2	13.4
50°-60°	967.1	21.7
60°-70°	1225.7	27.5
70°-80°	878.2	19.7
80°-90°	137.7	3.1
90°-100°	27.8	0.6
100°-110°	12.4	0.3
110°-120°	6.3	0.1
120°-130°	4.7	0.1
130°-140°	2.9	0.1
140°-150°	1.4	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4393.3	98.7
0°-180°	4449.1	100.0

Coefficient of Utilization



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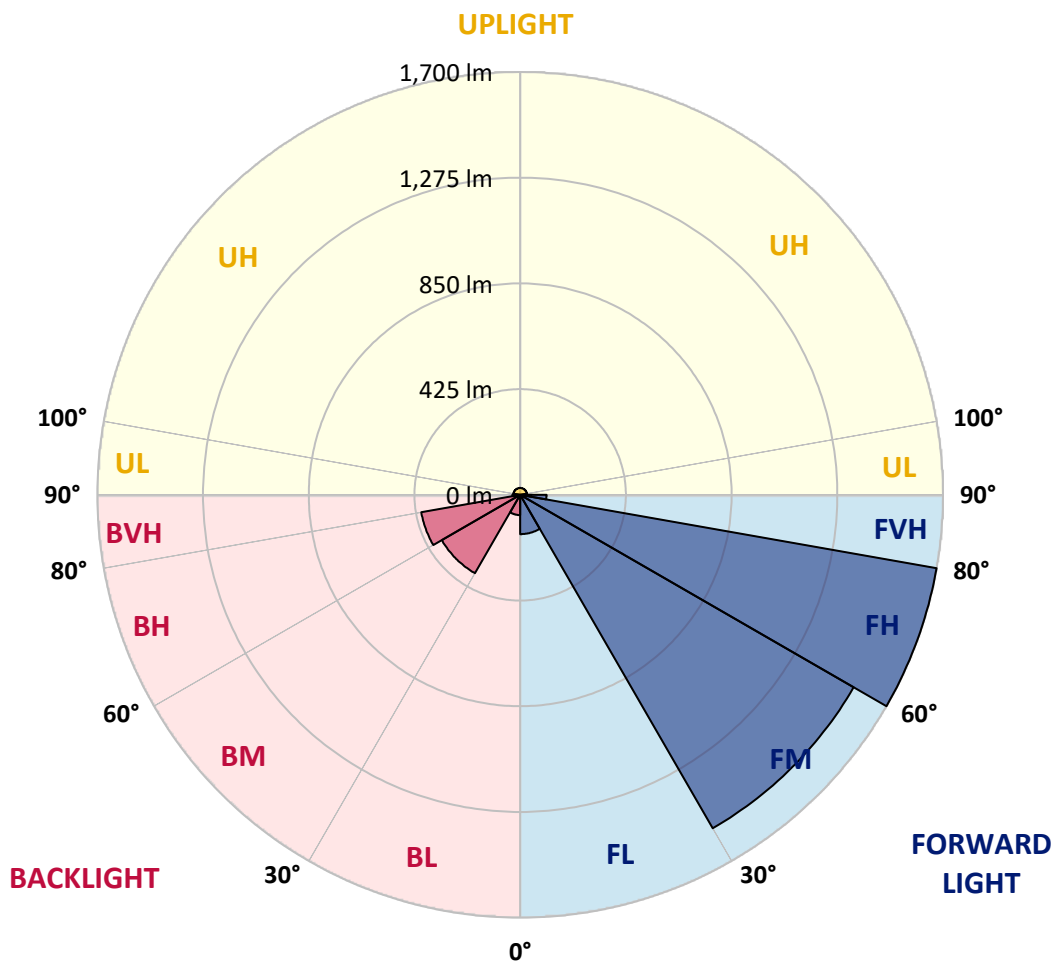
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	158.2	3.6			
FM	(30°-60°)	1548.2	34.8			
FH	(60°-80°)	1700.2	38.2			G1/1800
FVH	(80°-90°)	106.0	2.4			G2/225
BL	(0°-30°)	81.5	1.8	B0/110		
BM	(30°-60°)	363.8	8.2	B1/1000		
BH	(60°-80°)	403.6	9.1	B1/500		G1/500
BVH	(80°-90°)	31.7	0.7			G1/100
UL	(90°-100°)	27.8	0.6		U2/50	
UH	(100°-180°)	27.4	0.6		U2/50	

BUG Rating: B1-U2-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
2.5°	31.0	27.6	28.7	25.3	21.4	17.4	14.6	12.9	12.9	12.3	11.3
5°	107.5	109.9	123.3	103.7	94.1	122.8	34.3	19.8	18.5	12.9	10.7
7.5°	143.6	150.3	107.5	89.7	83.9	135.1	100.8	55.2	45.6	16.9	11.9
10°	272.0	253.5	171.2	187.0	174.0	111.0	73.8	75.5	69.3	27.6	19.1
12.5°	243.4	246.1	251.9	228.7	235.4	174.6	89.7	147.1	157.2	176.8	166.1
15°	284.0	272.0	228.7	249.0	237.2	276.0	232.1	216.3	237.7	244.5	203.3
17.5°	385.4	376.8	437.7	298.5	216.9	310.4	276.0	253.0	240.6	268.1	323.8
20°	354.3	354.9	380.3	337.5	350.3	285.7	277.8	408.4	490.0	464.8	451.8
22.5°	533.5	517.2	429.7	335.2	370.1	327.3	390.4	455.7	432.7	421.9	455.7
25°	518.2	524.4	498.5	503.6	370.7	437.7	406.8	434.9	462.4	663.6	748.1
27.5°	637.1	602.1	572.3	521.6	510.3	411.9	393.2	590.9	606.6	665.3	701.3
30°	838.2	820.7	766.2	595.4	533.0	442.8	537.9	565.6	575.8	783.1	968.9
32.5°	1064.1	1000.0	842.2	779.1	579.6	546.3	506.5	715.4	703.6	868.1	979.1
35°	1230.3	1192.1	1043.2	847.2	696.8	584.2	681.6	687.8	748.1	908.6	988.0
37.5°	1195.4	1206.1	1144.7	1011.1	766.7	631.5	737.4	801.1	806.7	984.2	1047.2
40°	1286.1	1292.8	1271.5	1122.2	884.4	726.6	828.6	888.3	841.1	1077.1	1119.3
42.5°	1339.1	1349.8	1390.8	1283.1	997.7	830.9	971.7	929.4	887.7	1157.0	1273.1
45°	1454.4	1448.8	1466.9	1339.1	1165.6	1045.4	1020.1	1007.2	1023.0	1300.7	1421.3
47.5°	1615.6	1638.1	1549.1	1366.1	1291.8	1098.4	1155.8	1180.7	1240.4	1486.5	1571.7
50°	1853.9	1825.1	1718.6	1486.1	1416.2	1168.3	1416.2	1302.5	1271.5	1656.1	1796.4
52.5°	1950.8	1932.2	1781.2	1536.7	1493.9	1300.7	1460.1	1431.4	1420.7	1890.6	2046.5
55°	1989.0	1975.6	1913.0	1545.8	1564.3	1498.5	1674.7	1707.9	1689.9	2039.2	2298.9
57.5°	1887.7	1910.2	1914.6	1582.4	1612.2	1521.5	2012.2	1771.6	1900.6	2225.7	2495.0
60°	1750.3	1751.3	1811.1	1577.9	1656.7	1669.1	2085.3	2052.7	2173.3	2324.3	2549.0
62.5°	1410.6	1450.6	1549.1	1546.3	1718.6	1860.6	2445.4	2234.7	2282.1	2424.5	2718.6
65°	935.7	957.1	1076.4	1282.2	1608.2	2013.3	2741.1	2517.5	2584.6	2615.4	2965.3
67.5°	558.2	584.7	601.7	819.1	1343.0	2043.7	3354.6	3019.5	2958.6	2904.5	3212.6
70°	466.4	483.8	434.9	490.0	820.7	1855.5	3650.4	3753.9	3556.2	3295.4	3265.0
72.5°	390.9	429.2	370.7	392.1	499.6	1101.3	3417.2	4278.4	4134.8	3360.7	2945.6
75°	290.2	343.6	308.7	352.0	461.4	565.6	2578.3	3615.4	3570.4	2912.9	2186.3
77.5°	226.5	236.1	193.2	265.9	443.4	467.6	1546.9	2383.5	2344.5	1857.2	1013.9
80°	158.9	162.9	152.6	138.6	342.6	438.3	783.6	1321.5	1239.3	576.8	336.9
82.5°	100.3	107.0	119.5	94.1	166.1	409.0	432.1	581.9	518.2	196.0	167.4
85°	60.2	65.9	73.8	65.9	77.8	312.6	334.6	299.1	273.3	119.5	105.9
87.5°	34.9	36.7	44.5	45.6	58.0	181.9	267.1	222.5	195.6	79.4	68.7
90°	24.3	22.5	22.5	23.6	29.9	79.4	130.8	77.8	78.3	41.7	36.0
92.5°	18.5	18.5	20.3	20.3	28.7	69.9	60.2	41.7	39.4	34.9	28.7
95°	14.1	15.2	15.2	16.3	19.8	21.4	29.9	31.0	31.0	31.5	25.3
97.5°	11.9	12.9	12.9	13.6	15.8	16.3	20.8	26.9	26.9	26.5	20.8
100°	11.3	11.9	11.3	11.3	12.9	12.3	16.9	23.0	24.3	23.0	18.1
102.5°	10.7	11.3	10.2	9.1	11.3	9.1	14.1	20.8	21.4	16.9	14.1
105°	10.7	10.7	9.1	7.4	9.1	7.4	11.9	14.6	14.6	11.9	13.6
107.5°	10.7	10.2	7.8	6.2	6.7	6.2	9.6	9.6	9.6	9.1	12.9
110°	9.6	9.1	7.4	5.6	5.1	5.1	6.7	6.7	6.7	7.8	12.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	8.4	7.8	6.2	4.5	4.0	4.0	4.5	5.1	5.1	7.4	12.3
115°	7.4	7.4	5.6	4.5	3.4	3.4	4.0	4.5	4.5	6.7	11.9
117.5°	7.4	7.4	5.1	4.0	2.9	2.9	3.4	4.0	4.0	6.7	12.3
120°	7.4	7.4	5.1	3.4	2.9	2.2	2.9	3.4	3.4	7.4	12.9
122.5°	6.7	6.7	5.1	3.4	2.2	2.2	2.2	3.4	3.4	6.7	11.9
125°	6.7	6.7	4.5	3.4	2.2	2.2	2.2	2.9	3.4	7.4	11.9
127.5°	6.2	6.2	5.1	3.4	2.2	1.6	2.2	2.9	2.9	6.7	11.3
130°	6.2	6.2	4.5	2.9	1.6	1.6	1.6	2.2	2.9	6.2	10.2
132.5°	5.6	5.6	4.0	2.9	1.6	1.1	1.6	2.2	2.2	5.6	9.1
135°	5.6	5.6	4.5	2.9	1.6	1.1	1.6	2.2	2.2	5.1	7.8
137.5°	5.1	5.1	4.0	2.9	1.6	1.1	1.1	1.6	2.2	5.1	7.4
140°	5.1	5.1	4.5	3.4	1.6	1.1	1.1	1.6	1.6	4.0	5.6
142.5°	5.6	5.6	4.5	2.9	1.6	1.1	1.1	1.1	1.6	2.9	4.5
145°	5.1	5.1	4.0	2.9	1.6	0.5	0.5	1.1	1.6	2.9	4.0
147.5°	5.1	5.1	4.5	2.9	1.1	0.5	0.5	1.1	1.1	2.2	3.4
150°	4.5	4.5	3.4	1.6	0.5	0.0	0.5	1.1	1.1	1.6	2.9
152.5°	3.4	3.4	2.2	1.1	0.0	0.0	0.0	0.5	0.5	1.1	1.6
155°	1.6	1.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1
157.5°	0.5	0.5	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°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
2.5°	11.3	11.3	11.3	11.3	10.7	10.7	10.2	10.2	10.2	10.2	10.2
5°	10.7	10.7	10.7	10.2	9.6	9.1	9.6	9.1	9.1	9.1	9.1
7.5°	11.3	11.3	10.2	9.6	9.6	9.6	12.3	74.9	165.6	141.9	147.6
10°	20.8	19.8	16.9	14.1	12.9	74.4	141.9	130.2	99.2	82.9	85.1
12.5°	206.7	185.9	120.1	83.4	95.8	98.5	89.0	97.5	158.9	145.3	146.0
15°	206.7	211.8	173.6	195.6	169.1	79.0	152.2	181.4	176.2	162.2	170.0
17.5°	349.3	347.0	216.3	198.9	163.3	165.1	143.1	124.4	115.5	113.7	115.5
20°	517.8	431.5	412.3	300.3	183.7	168.4	118.2	100.3	127.9	157.7	161.7
22.5°	455.7	455.7	370.1	268.1	227.0	144.2	128.9	127.9	153.3	151.5	158.9
25°	769.5	668.7	479.3	258.5	198.3	146.5	130.8	118.8	133.5	153.8	152.2
27.5°	709.8	658.5	473.8	311.0	155.4	159.4	120.6	117.1	150.3	161.7	162.9
30°	895.7	825.3	478.8	233.7	156.7	122.8	111.5	119.5	125.7	136.4	137.4
32.5°	927.8	839.9	459.7	210.7	165.1	118.2	113.2	112.6	127.9	147.1	148.7
35°	908.0	806.0	433.3	177.4	165.6	119.5	116.1	128.5	117.1	136.9	139.6
37.5°	1043.2	822.9	390.9	165.6	152.2	122.8	152.2	122.8	122.2	128.5	129.5
40°	1041.6	860.8	343.1	202.2	152.2	202.2	158.9	127.9	109.9	120.6	121.1
42.5°	1125.4	882.1	300.8	208.4	163.9	234.4	148.1	124.4	130.8	137.4	144.2
45°	1222.5	949.8	281.7	187.6	184.8	181.4	154.4	162.2	118.2	189.8	197.7
47.5°	1354.7	1036.6	255.7	183.7	250.6	182.5	294.0	150.9	130.2	224.8	229.2
50°	1552.5	1189.1	258.1	201.7	229.8	195.6	197.7	163.9	175.8	233.7	234.8
52.5°	1763.3	1317.0	242.8	222.5	226.0	239.9	210.7	245.1	173.0	224.8	224.8
55°	1949.6	1505.7	250.1	234.4	236.1	208.9	296.9	180.7	172.4	226.0	231.6
57.5°	2193.0	1707.4	300.3	245.1	242.3	223.0	229.2	224.1	202.7	229.8	233.2
60°	2321.9	1854.5	376.3	275.5	253.5	257.5	271.5	215.8	184.2	268.8	279.5
62.5°	2526.5	2066.2	476.6	312.2	321.7	263.7	231.6	234.8	196.0	214.1	216.3
65°	2762.5	2286.5	526.1	348.2	346.4	292.9	262.6	182.5	127.3	117.8	117.1
67.5°	2940.0	2371.5	481.6	389.2	432.1	281.1	180.3	129.5	98.1	92.3	94.1
70°	2825.6	2177.2	412.3	466.9	437.1	218.0	155.4	103.0	83.9	79.0	81.7
72.5°	2451.6	1759.2	378.5	492.9	383.7	147.1	116.1	90.6	75.5	70.3	71.5
75°	1732.8	1130.5	388.6	417.4	272.6	106.4	100.3	75.5	67.1	60.2	60.2
77.5°	761.0	484.5	304.7	300.8	174.6	84.5	85.1	62.5	58.0	51.8	51.8
80°	306.4	256.2	179.1	174.0	116.6	66.5	67.6	51.8	52.5	43.9	41.1
82.5°	162.2	146.5	99.7	93.6	83.4	51.3	47.9	44.5	43.9	36.0	31.5
85°	106.4	96.3	65.3	60.8	62.0	37.8	40.1	42.2	38.8	29.9	20.8
87.5°	65.9	65.3	46.3	43.9	46.3	26.9	32.7	34.3	32.7	22.5	13.6
90°	31.0	33.7	31.0	30.5	30.5	12.9	25.3	26.9	26.5	18.1	10.7
92.5°	24.3	27.6	28.7	29.3	29.3	13.6	26.5	28.1	26.9	18.5	11.9
95°	20.8	24.3	28.1	28.1	27.6	10.7	24.9	27.6	26.0	17.4	11.3
97.5°	17.4	20.3	24.3	24.3	26.5	9.1	23.0	26.5	26.0	18.5	11.9
100°	16.3	19.1	21.4	22.0	24.3	8.4	20.8	23.6	23.0	15.2	12.3
102.5°	15.2	16.3	16.9	17.4	18.1	7.8	16.3	18.1	17.4	11.3	11.3
105°	14.1	14.1	12.3	11.9	11.9	7.4	10.2	12.3	10.2	9.1	10.2
107.5°	14.1	13.6	10.2	9.1	9.1	6.7	7.8	7.8	6.7	9.1	9.6
110°	14.1	12.9	9.1	7.8	7.4	6.2	6.2	5.6	5.6	9.1	9.6



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CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	13.6	12.3	7.8	6.7	6.7	5.6	5.1	4.5	5.1	9.1	10.2
115°	12.9	11.9	7.4	6.7	6.2	5.1	4.5	3.4	5.1	9.6	10.7
117.5°	12.9	11.9	7.4	6.2	5.6	4.5	4.0	3.4	5.1	9.6	10.7
120°	13.6	11.9	7.4	5.6	5.1	4.0	3.4	3.4	5.1	9.6	10.7
122.5°	12.9	11.3	6.7	5.1	4.5	4.0	3.4	3.4	5.1	9.6	10.2
125°	12.3	11.3	6.7	4.5	4.0	3.4	2.9	2.9	5.6	9.6	10.2
127.5°	11.9	10.7	6.2	4.0	3.4	3.4	2.9	2.9	5.6	9.1	9.6
130°	10.7	9.6	6.2	4.0	2.9	2.9	2.2	2.2	5.6	9.1	9.6
132.5°	9.6	9.1	5.6	3.4	2.2	2.2	2.2	2.2	5.1	7.8	8.4
135°	8.4	7.4	5.1	2.9	2.2	1.6	1.6	1.6	4.5	6.7	7.4
137.5°	7.4	6.7	4.5	2.9	1.6	1.6	1.1	1.1	4.0	6.2	6.7
140°	6.2	5.6	4.0	2.2	1.6	1.6	1.1	1.1	2.9	4.5	5.1
142.5°	4.5	4.5	3.4	2.2	1.6	1.1	1.1	1.1	2.9	4.0	4.5
145°	4.0	4.0	3.4	2.2	1.6	1.1	0.5	0.5	1.6	2.9	2.9
147.5°	3.4	3.4	2.9	2.2	1.1	0.5	0.5	0.5	1.1	1.6	1.6
150°	2.9	2.9	2.2	1.6	1.1	0.5	0.0	0.0	0.5	1.1	1.1
152.5°	1.6	1.6	1.6	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.1	1.1	1.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.5	0.5	0.5	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)