

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: P241066

Luminaire Tested: **UTLD-AF24-50-D-U-SL3-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241066
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 4952.7 lumens
Efficiency: N/A
Efficacy: 91.7 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



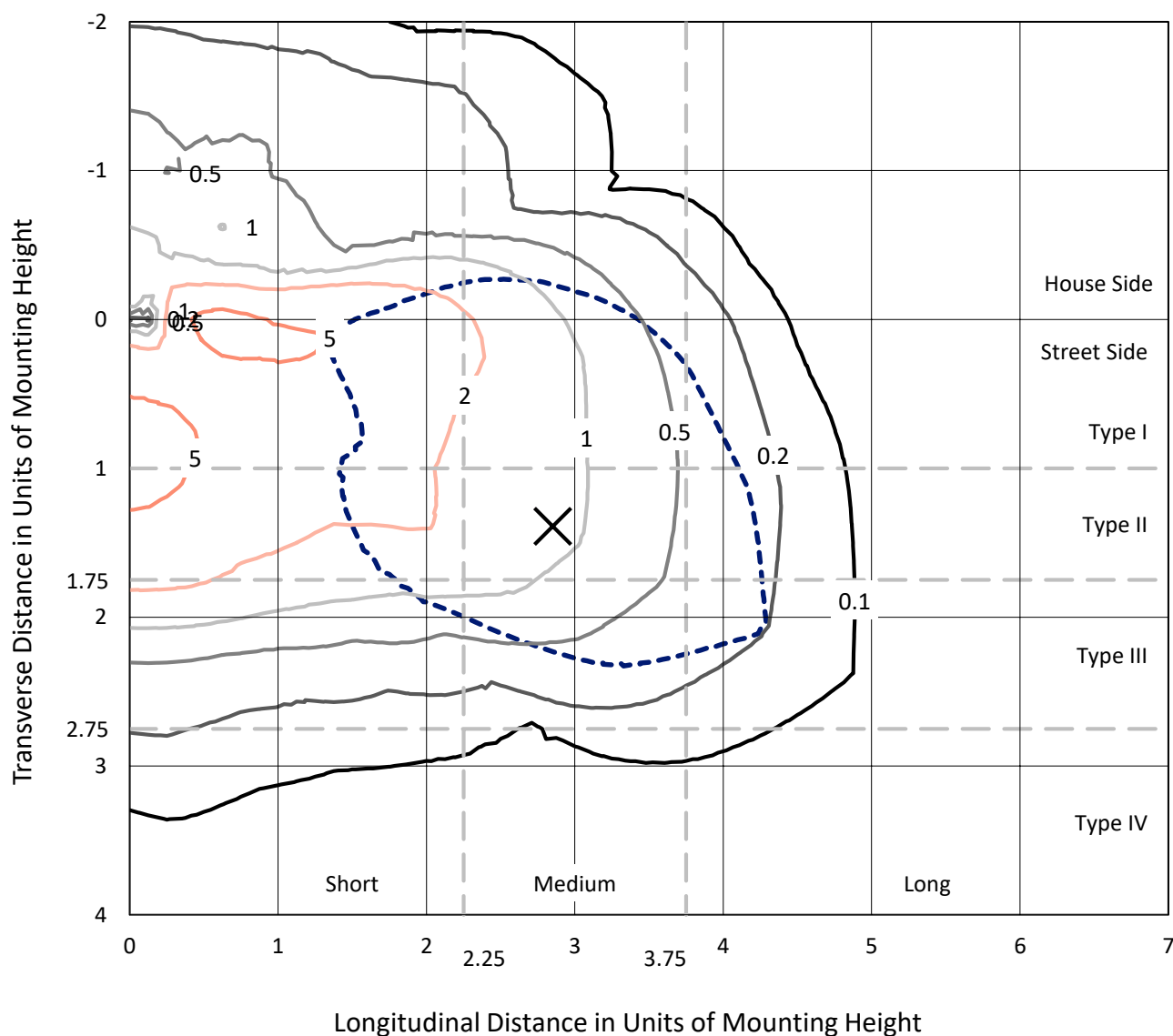
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

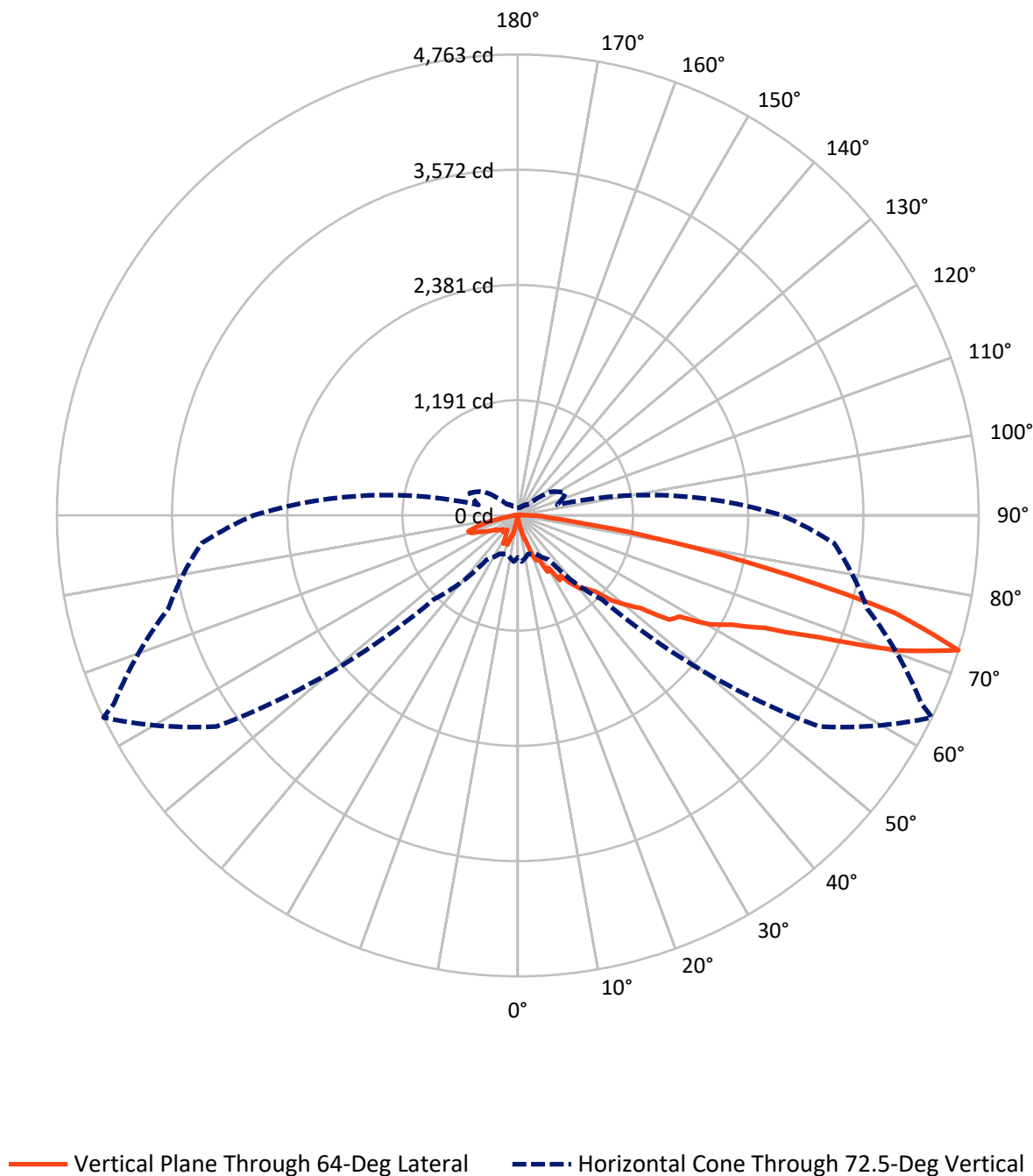


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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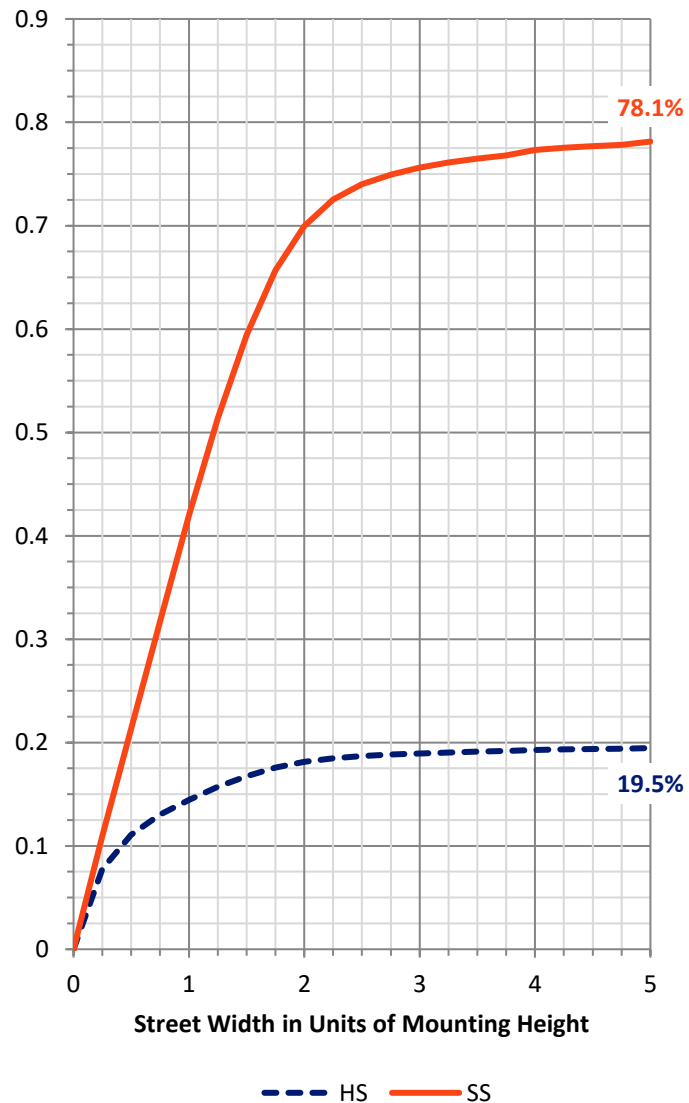
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	980.4	30.5	1010.9
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	3910.2	31.6	3941.8
	% Fixture	79.0	0.6	79.6
Total	Lumens	4890.6	62.1	4952.7
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	0.1
10°-20°	66.1	1.3
20°-30°	194.6	3.9
30°-40°	385.9	7.8
40°-50°	666.0	13.4
50°-60°	1076.6	21.7
60°-70°	1364.4	27.5
70°-80°	977.6	19.7
80°-90°	153.3	3.1
90°-100°	30.9	0.6
100°-110°	13.8	0.3
110°-120°	7.1	0.1
120°-130°	5.2	0.1
130°-140°	3.2	0.1
140°-150°	1.6	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4890.6	98.7
0°-180°	4952.7	100.0

Coefficient of Utilization



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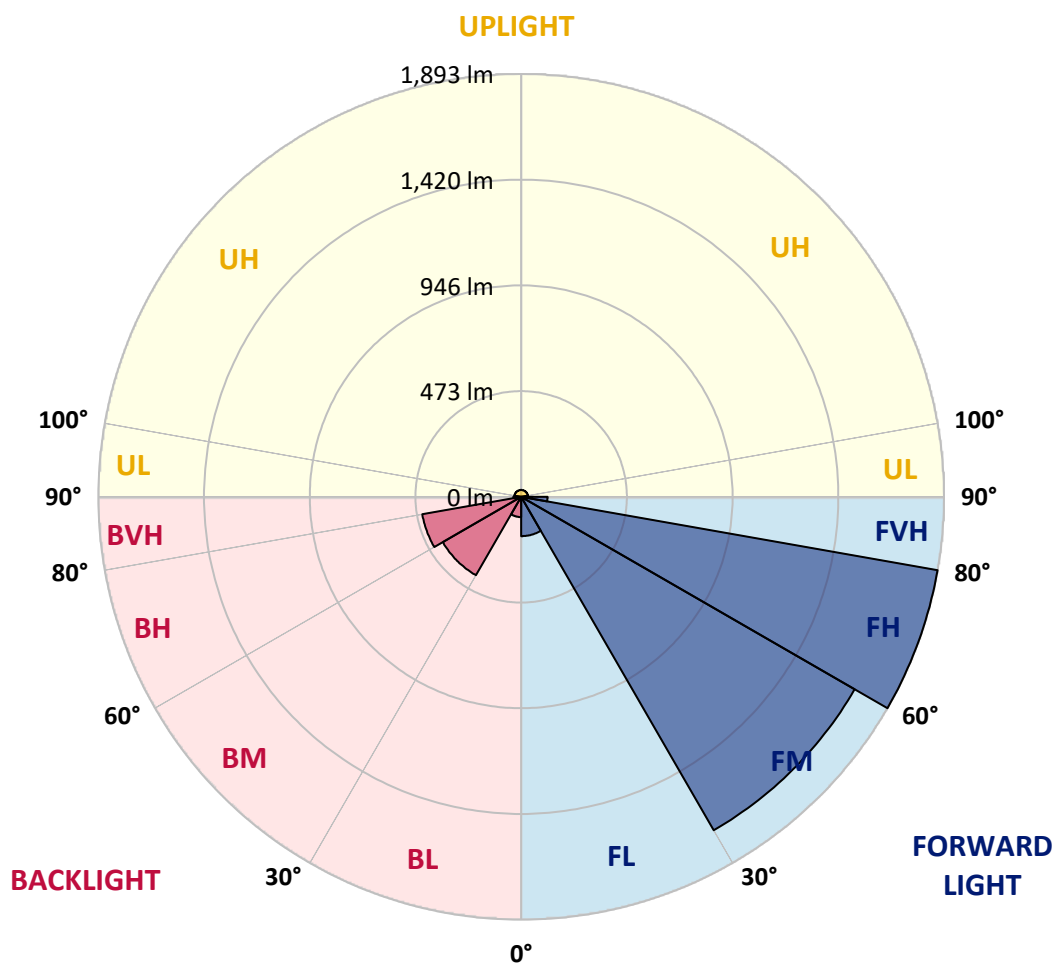
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	176.1	3.6			
FM	(30°-60°)	1723.5	34.8			
FH	(60°-80°)	1892.7	38.2			G2/5000
FVH	(80°-90°)	118.0	2.4			G2/225
BL	(0°-30°)	90.7	1.8	B0/110		
BM	(30°-60°)	405.0	8.2	B1/1000		
BH	(60°-80°)	449.3	9.1	B1/500		G1/500
BVH	(80°-90°)	35.3	0.7			G1/100
UL	(90°-100°)	30.9	0.6		U2/50	
UH	(100°-180°)	30.5	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°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
2.5°	34.5	30.7	32.0	28.2	23.8	19.4	16.3	14.4	14.4	13.7	12.6
5°	119.7	122.3	137.3	115.4	104.7	136.7	38.2	22.0	20.6	14.4	11.9
7.5°	159.9	167.3	119.7	99.8	93.4	150.4	112.2	61.4	50.8	18.8	13.2
10°	302.8	282.2	190.6	208.2	193.7	123.6	82.2	84.0	77.1	30.7	21.3
12.5°	270.9	274.0	280.4	254.6	262.1	194.4	99.8	163.7	175.0	196.8	184.9
15°	316.1	302.8	254.6	277.2	264.0	307.2	258.4	240.8	264.6	272.2	226.3
17.5°	429.0	419.5	487.3	332.3	241.5	345.5	307.2	281.6	267.8	298.5	360.5
20°	394.4	395.1	423.3	375.7	390.0	318.0	309.2	454.6	545.5	517.4	502.9
22.5°	593.9	575.7	478.4	373.1	412.0	364.4	434.6	507.3	481.7	469.7	507.3
25°	576.9	583.8	554.9	560.6	412.7	487.3	452.8	484.1	514.8	738.7	832.8
27.5°	709.2	670.3	637.1	580.7	568.1	458.5	437.7	657.8	675.3	740.6	780.7
30°	933.1	913.6	852.9	662.8	593.3	492.9	598.8	629.6	641.0	871.7	1078.6
32.5°	1184.6	1113.2	937.5	867.3	645.2	608.2	563.8	796.4	783.3	966.4	1089.9
35°	1369.6	1327.0	1161.3	943.1	775.7	650.3	758.8	765.7	832.8	1011.5	1099.9
37.5°	1330.7	1342.6	1274.3	1125.6	853.5	703.0	820.9	891.8	898.0	1095.6	1165.8
40°	1431.7	1439.2	1415.4	1249.2	984.5	808.9	922.4	988.9	936.3	1199.0	1246.0
42.5°	1490.7	1502.6	1548.3	1428.4	1110.6	925.0	1081.7	1034.6	988.2	1288.0	1417.2
45°	1619.1	1612.8	1633.0	1490.7	1297.5	1163.8	1135.6	1121.2	1138.8	1447.9	1582.2
47.5°	1798.5	1823.5	1724.5	1520.7	1438.0	1222.8	1286.7	1314.4	1380.8	1654.8	1749.6
50°	2063.8	2031.7	1913.2	1654.3	1576.5	1300.6	1576.5	1449.9	1415.4	1843.6	1999.8
52.5°	2171.6	2150.9	1982.8	1710.7	1663.0	1447.9	1625.4	1593.4	1581.5	2104.6	2278.2
55°	2214.2	2199.2	2129.6	1720.8	1741.4	1668.1	1864.3	1901.3	1881.2	2270.1	2559.2
57.5°	2101.4	2126.5	2131.4	1761.5	1794.7	1693.7	2240.0	1972.2	2115.8	2477.7	2777.4
60°	1948.4	1949.6	2016.1	1756.5	1844.3	1858.1	2321.4	2285.1	2419.3	2587.4	2837.6
62.5°	1570.3	1614.8	1724.5	1721.4	1913.2	2071.2	2722.2	2487.7	2540.4	2699.0	3026.4
65°	1041.6	1065.4	1198.3	1427.3	1790.3	2241.2	3051.4	2802.5	2877.2	2911.5	3301.0
67.5°	621.4	650.9	669.8	911.8	1495.0	2275.1	3734.4	3361.3	3293.5	3233.3	3576.3
70°	519.2	538.6	484.1	545.5	913.6	2065.6	4063.6	4178.9	3958.8	3668.5	3634.6
72.5°	435.2	477.8	412.7	436.5	556.2	1226.0	3804.0	4762.7	4602.9	3741.2	3279.1
75°	323.0	382.5	343.6	391.9	513.6	629.6	2870.2	4024.7	3974.6	3242.7	2433.8
77.5°	252.1	262.8	215.1	296.0	493.6	520.5	1722.0	2653.3	2609.9	2067.5	1128.7
80°	176.9	181.3	169.9	154.3	381.4	487.9	872.3	1471.1	1379.6	642.1	375.0
82.5°	111.7	119.1	133.0	104.7	184.9	455.3	481.0	647.8	576.9	218.2	186.3
85°	67.0	73.4	82.2	73.4	86.6	348.0	372.5	333.0	304.2	133.0	117.9
87.5°	38.9	40.8	49.5	50.8	64.6	202.5	297.3	247.7	217.7	88.4	76.5
90°	27.0	25.1	25.1	26.3	33.3	88.4	145.6	86.6	87.2	46.4	40.1
92.5°	20.6	20.6	22.6	22.6	32.0	77.8	67.0	46.4	43.9	38.9	32.0
95°	15.7	16.9	16.9	18.1	22.0	23.8	33.3	34.5	34.5	35.1	28.2
97.5°	13.2	14.4	14.4	15.1	17.6	18.1	23.2	30.0	30.0	29.5	23.2
100°	12.6	13.2	12.6	12.6	14.4	13.7	18.8	25.6	27.0	25.6	20.1
102.5°	11.9	12.6	11.3	10.1	12.6	10.1	15.7	23.2	23.8	18.8	15.7
105°	11.9	11.9	10.1	8.2	10.1	8.2	13.2	16.3	16.3	13.2	15.1
107.5°	11.9	11.3	8.7	6.9	7.5	6.9	10.7	10.7	10.7	10.1	14.4
110°	10.7	10.1	8.2	6.2	5.7	5.7	7.5	7.5	7.5	8.7	14.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	9.4	8.7	6.9	5.0	4.4	4.4	5.0	5.7	5.7	8.2	13.7
115°	8.2	8.2	6.2	5.0	3.8	3.8	4.4	5.0	5.0	7.5	13.2
117.5°	8.2	8.2	5.7	4.4	3.2	3.2	3.8	4.4	4.4	7.5	13.7
120°	8.2	8.2	5.7	3.8	3.2	2.5	3.2	3.8	3.8	8.2	14.4
122.5°	7.5	7.5	5.7	3.8	2.5	2.5	2.5	3.8	3.8	7.5	13.2
125°	7.5	7.5	5.0	3.8	2.5	2.5	2.5	3.2	3.8	8.2	13.2
127.5°	6.9	6.9	5.7	3.8	2.5	1.8	2.5	3.2	3.2	7.5	12.6
130°	6.9	6.9	5.0	3.2	1.8	1.8	1.8	2.5	3.2	6.9	11.3
132.5°	6.2	6.2	4.4	3.2	1.8	1.2	1.8	2.5	2.5	6.2	10.1
135°	6.2	6.2	5.0	3.2	1.8	1.2	1.8	2.5	2.5	5.7	8.7
137.5°	5.7	5.7	4.4	3.2	1.8	1.2	1.2	1.8	2.5	5.7	8.2
140°	5.7	5.7	5.0	3.8	1.8	1.2	1.2	1.8	1.8	4.4	6.2
142.5°	6.2	6.2	5.0	3.2	1.8	1.2	1.2	1.2	1.8	3.2	5.0
145°	5.7	5.7	4.4	3.2	1.8	0.6	0.6	1.2	1.8	3.2	4.4
147.5°	5.7	5.7	5.0	3.2	1.2	0.6	0.6	1.2	1.2	2.5	3.8
150°	5.0	5.0	3.8	1.8	0.6	0.0	0.6	1.2	1.2	1.8	3.2
152.5°	3.8	3.8	2.5	1.2	0.0	0.0	0.0	0.6	0.6	1.2	1.8
155°	1.8	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2
157.5°	0.6	0.6	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°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
2.5°	12.6	12.6	12.6	12.6	11.9	11.9	11.3	11.3	11.3	11.3	11.3
5°	11.9	11.9	11.9	11.3	10.7	10.1	10.7	10.1	10.1	10.1	10.1
7.5°	12.6	12.6	11.3	10.7	10.7	10.7	13.7	83.4	184.3	158.0	164.3
10°	23.2	22.0	18.8	15.7	14.4	82.8	158.0	144.9	110.4	92.3	94.7
12.5°	230.1	206.9	133.7	92.8	106.6	109.7	99.1	108.5	176.9	161.8	162.5
15°	230.1	235.8	193.2	217.7	188.2	87.9	169.4	201.9	196.2	180.6	189.3
17.5°	388.8	386.3	240.8	221.4	181.8	183.8	159.3	138.5	128.6	126.6	128.6
20°	576.4	480.3	459.0	334.3	204.5	187.5	131.6	111.7	142.4	175.6	180.0
22.5°	507.3	507.3	412.0	298.5	252.7	160.5	143.5	142.4	170.6	168.7	176.9
25°	856.6	744.4	533.6	287.8	220.7	163.1	145.6	132.3	148.6	171.2	169.4
27.5°	790.2	733.0	527.4	346.2	173.0	177.4	134.2	130.4	167.3	180.0	181.3
30°	997.1	918.7	533.0	260.2	174.4	136.7	124.1	133.0	139.9	151.8	153.0
32.5°	1032.8	935.0	511.7	234.6	183.8	131.6	126.0	125.4	142.4	163.7	165.5
35°	1010.8	897.3	482.3	197.5	184.3	133.0	129.2	143.0	130.4	152.4	155.4
37.5°	1161.3	916.1	435.2	184.3	169.4	136.7	169.4	136.7	136.0	143.0	144.2
40°	1159.5	958.2	381.9	225.1	169.4	225.1	176.9	142.4	122.3	134.2	134.8
42.5°	1252.8	982.0	334.9	232.0	182.5	260.9	164.9	138.5	145.6	153.0	160.5
45°	1360.9	1057.3	313.6	208.8	205.7	201.9	171.9	180.6	131.6	211.3	220.1
47.5°	1508.1	1153.9	284.7	204.5	279.0	203.2	327.3	168.0	144.9	250.2	255.2
50°	1728.3	1323.7	287.3	224.5	255.8	217.7	220.1	182.5	195.7	260.2	261.4
52.5°	1962.9	1466.1	270.3	247.7	251.6	267.1	234.6	272.8	192.6	250.2	250.2
55°	2170.3	1676.2	278.4	260.9	262.8	232.6	330.5	201.2	191.9	251.6	257.8
57.5°	2441.3	1900.7	334.3	272.8	269.7	248.3	255.2	249.5	225.7	255.8	259.6
60°	2584.8	2064.4	418.9	306.7	282.2	286.6	302.2	240.2	205.1	299.2	311.1
62.5°	2812.5	2300.1	530.6	347.5	358.1	293.5	257.8	261.4	218.2	238.3	240.8
65°	3075.2	2545.3	585.7	387.6	385.6	326.1	292.3	203.2	141.7	131.1	130.4
67.5°	3272.8	2640.0	536.1	433.3	481.0	312.9	200.7	144.2	109.2	102.8	104.7
70°	3145.5	2423.7	459.0	519.8	486.6	242.7	173.0	114.7	93.4	87.9	90.9
72.5°	2729.1	1958.4	421.4	548.7	427.1	163.7	129.2	100.9	84.0	78.3	79.6
75°	1929.0	1258.5	432.6	464.7	303.5	118.5	111.7	84.0	74.7	67.0	67.0
77.5°	847.2	539.3	339.2	334.9	194.4	94.1	94.7	69.6	64.6	57.7	57.7
80°	341.1	285.2	199.4	193.7	129.8	74.0	75.3	57.7	58.4	48.9	45.8
82.5°	180.6	163.1	111.0	104.2	92.8	57.1	53.3	49.5	48.9	40.1	35.1
85°	118.5	107.2	72.7	67.7	69.0	42.1	44.6	47.0	43.2	33.3	23.2
87.5°	73.4	72.7	51.5	48.9	51.5	30.0	36.4	38.2	36.4	25.1	15.1
90°	34.5	37.5	34.5	33.9	33.9	14.4	28.2	30.0	29.5	20.1	11.9
92.5°	27.0	30.7	32.0	32.6	32.6	15.1	29.5	31.3	30.0	20.6	13.2
95°	23.2	27.0	31.3	31.3	30.7	11.9	27.7	30.7	28.9	19.4	12.6
97.5°	19.4	22.6	27.0	27.0	29.5	10.1	25.6	29.5	28.9	20.6	13.2
100°	18.1	21.3	23.8	24.5	27.0	9.4	23.2	26.3	25.6	16.9	13.7
102.5°	16.9	18.1	18.8	19.4	20.1	8.7	18.1	20.1	19.4	12.6	12.6
105°	15.7	15.7	13.7	13.2	13.2	8.2	11.3	13.7	11.3	10.1	11.3
107.5°	15.7	15.1	11.3	10.1	10.1	7.5	8.7	8.7	7.5	10.1	10.7
110°	15.7	14.4	10.1	8.7	8.2	6.9	6.9	6.2	6.2	10.1	10.7



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CATALOG NUMBER: UTLD-AF24-50-D-U-SL3-CL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	15.1	13.7	8.7	7.5	7.5	6.2	5.7	5.0	5.7	10.1	11.3
115°	14.4	13.2	8.2	7.5	6.9	5.7	5.0	3.8	5.7	10.7	11.9
117.5°	14.4	13.2	8.2	6.9	6.2	5.0	4.4	3.8	5.7	10.7	11.9
120°	15.1	13.2	8.2	6.2	5.7	4.4	3.8	3.8	5.7	10.7	11.9
122.5°	14.4	12.6	7.5	5.7	5.0	4.4	3.8	3.8	5.7	10.7	11.3
125°	13.7	12.6	7.5	5.0	4.4	3.8	3.2	3.2	6.2	10.7	11.3
127.5°	13.2	11.9	6.9	4.4	3.8	3.8	3.2	3.2	6.2	10.1	10.7
130°	11.9	10.7	6.9	4.4	3.2	3.2	2.5	2.5	6.2	10.1	10.7
132.5°	10.7	10.1	6.2	3.8	2.5	2.5	2.5	2.5	5.7	8.7	9.4
135°	9.4	8.2	5.7	3.2	2.5	1.8	1.8	1.8	5.0	7.5	8.2
137.5°	8.2	7.5	5.0	3.2	1.8	1.8	1.2	1.2	4.4	6.9	7.5
140°	6.9	6.2	4.4	2.5	1.8	1.8	1.2	1.2	3.2	5.0	5.7
142.5°	5.0	5.0	3.8	2.5	1.8	1.2	1.2	1.2	3.2	4.4	5.0
145°	4.4	4.4	3.8	2.5	1.8	1.2	0.6	0.6	1.8	3.2	3.2
147.5°	3.8	3.8	3.2	2.5	1.2	0.6	0.6	0.6	1.2	1.8	1.8
150°	3.2	3.2	2.5	1.8	1.2	0.6	0.0	0.0	0.6	1.2	1.2
152.5°	1.8	1.8	1.8	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.2	1.2	1.2	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.6	0.6	0.6	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)