

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: P241076

Luminaire Tested: **UTLD-AF24-60-D-U-SL3-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241076
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-AF24-60-D-U-SL3-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 800mA 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: 6088.6 lumens
Efficiency: N/A
Efficacy: 95.1 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: B2 - U2 - G2

Input Watts (W): 64
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



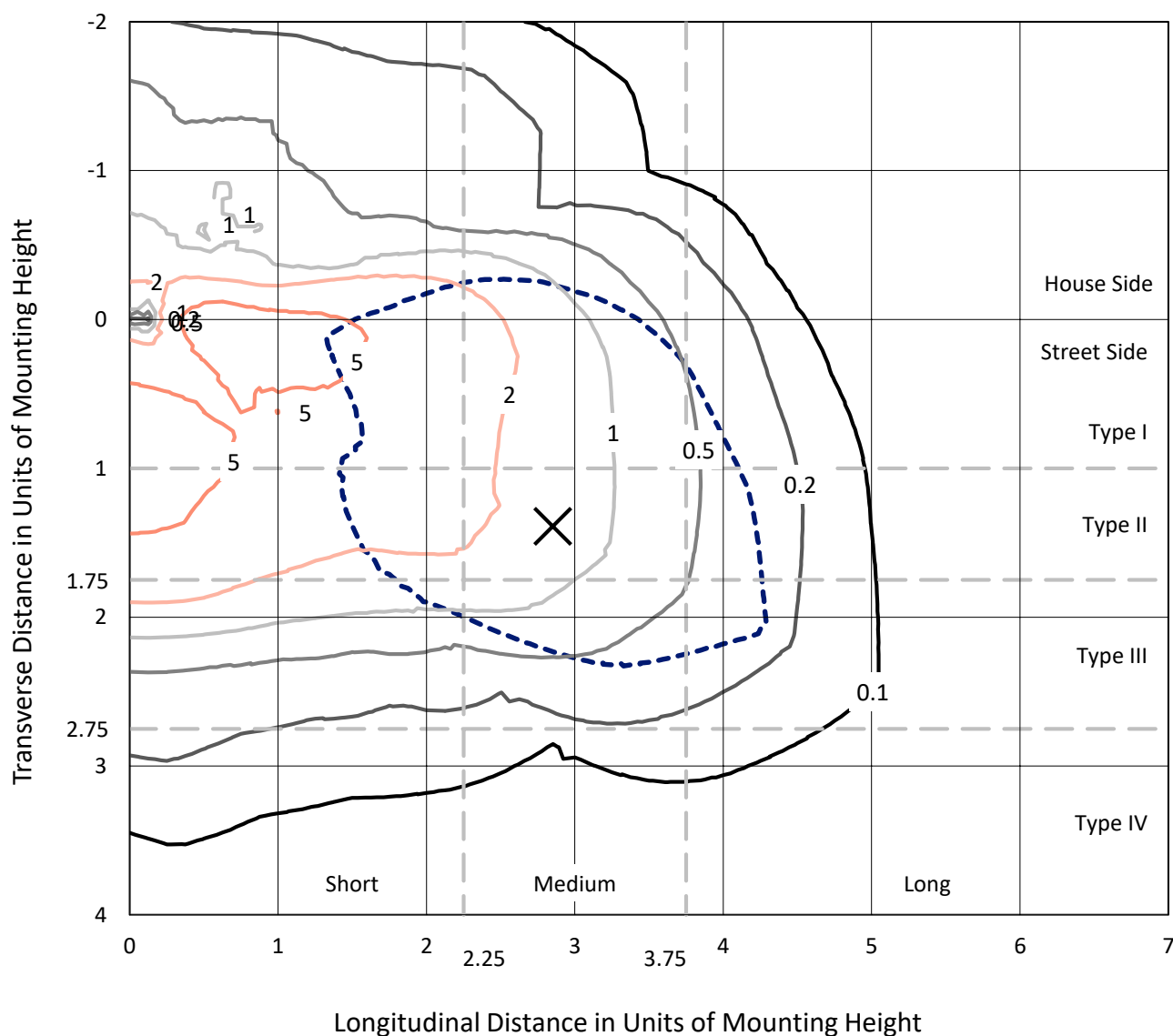
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

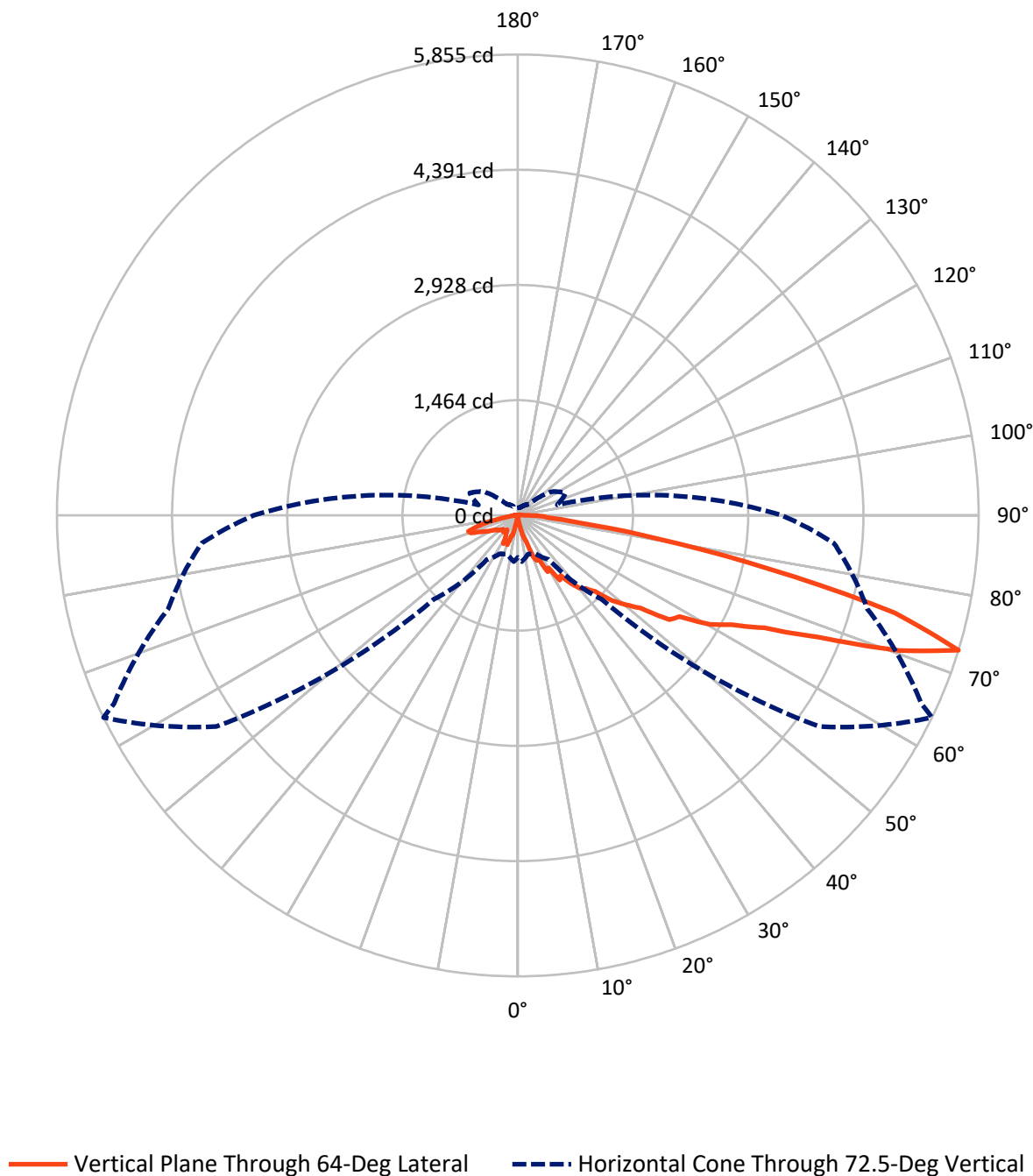


Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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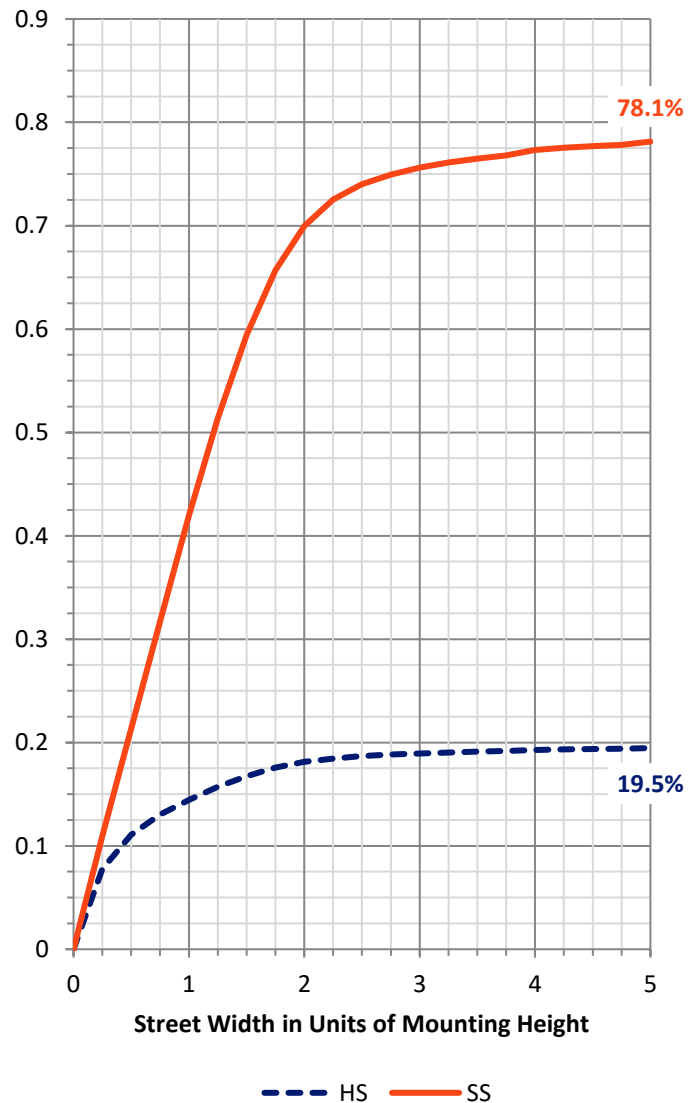
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1205.2	37.6	1242.8
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	4807.0	38.8	4845.8
	% Fixture	79.0	0.6	79.6
Total	Lumens	6012.2	76.4	6088.6
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.1
10°-20°	81.3	1.3
20°-30°	239.2	3.9
30°-40°	474.5	7.8
40°-50°	818.7	13.4
50°-60°	1323.5	21.7
60°-70°	1677.4	27.5
70°-80°	1201.8	19.7
80°-90°	188.5	3.1
90°-100°	38.0	0.6
100°-110°	16.9	0.3
110°-120°	8.7	0.1
120°-130°	6.4	0.1
130°-140°	4.0	0.1
140°-150°	2.0	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6012.2	98.7
0°-180°	6088.6	100.0

Coefficient of Utilization



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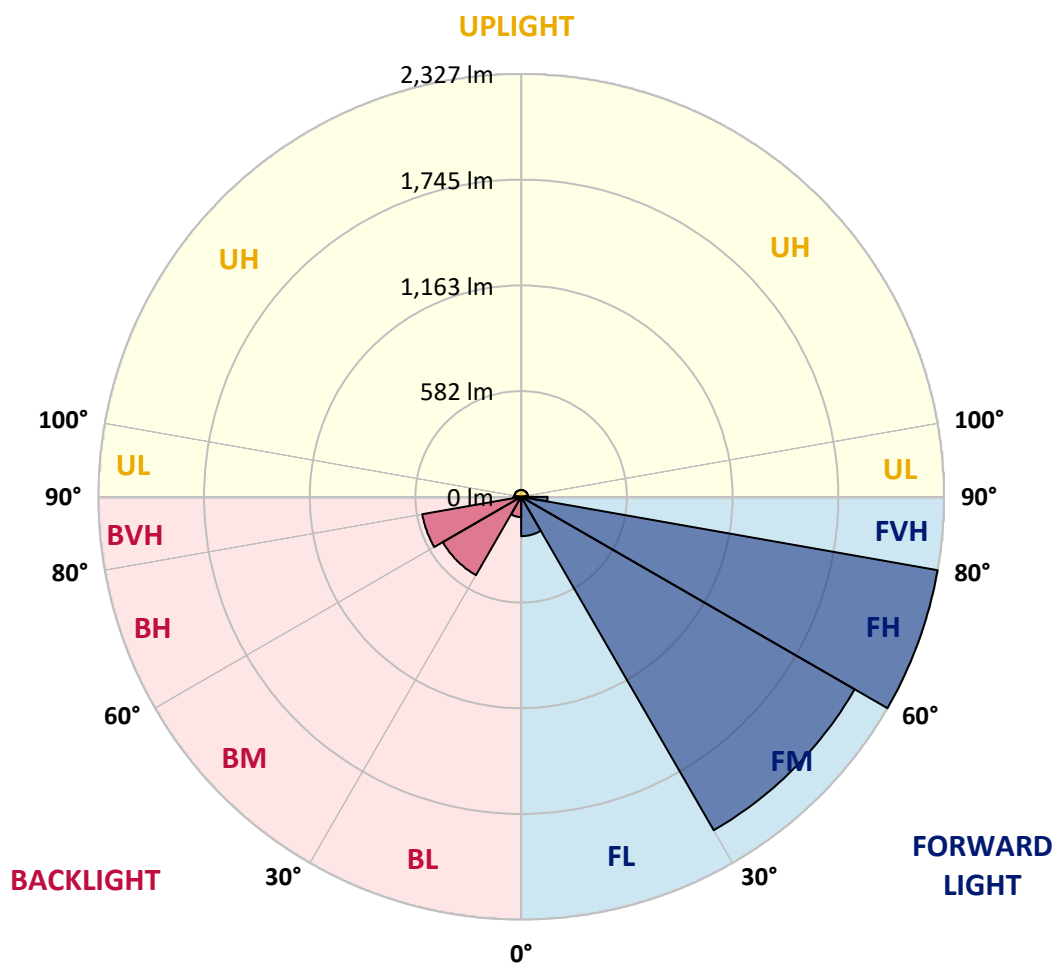
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	216.5	3.6			
FM	(30°-60°)	2118.7	34.8			
FH	(60°-80°)	2326.7	38.2			G2/5000
FVH	(80°-90°)	145.0	2.4			G2/225
BL	(0°-30°)	111.5	1.8	B1/500		
BM	(30°-60°)	497.9	8.2	B1/1000		
BH	(60°-80°)	552.4	9.1	B2/1000		G2/1000
BVH	(80°-90°)	43.4	0.7			G1/100
UL	(90°-100°)	38.0	0.6		U2/50	
UH	(100°-180°)	37.6	0.6		U2/50	

BUG Rating: B2-U2-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
2.5°	42.4	37.7	39.3	34.7	29.3	23.9	20.0	17.7	17.7	17.0	15.4
5°	147.2	150.4	168.8	141.9	128.8	168.1	47.1	27.0	25.5	17.7	14.6
7.5°	196.6	205.8	147.2	122.5	114.9	185.1	138.0	75.6	62.4	23.1	16.2
10°	372.4	346.9	234.4	255.9	238.2	151.9	101.0	103.3	94.8	37.7	26.2
12.5°	333.1	336.9	344.6	313.0	322.2	239.0	122.5	201.2	215.1	242.0	227.4
15°	388.5	372.4	313.0	340.7	324.6	377.8	317.6	296.0	325.3	334.6	278.3
17.5°	527.3	515.8	599.0	408.6	296.8	424.7	377.8	346.2	329.2	366.9	443.2
20°	484.9	485.7	520.4	461.8	479.5	390.9	380.0	558.9	670.6	636.0	618.3
22.5°	730.1	707.7	588.2	458.7	506.5	447.8	534.3	623.7	592.1	577.5	623.7
25°	709.2	717.7	682.2	689.2	507.3	599.0	556.6	595.2	632.9	908.2	1023.8
27.5°	871.9	824.1	783.3	713.8	698.5	563.5	538.1	808.6	830.2	910.4	959.7
30°	1147.1	1123.2	1048.4	814.9	729.3	605.9	736.2	774.0	787.9	1071.5	1325.9
32.5°	1456.3	1368.4	1152.6	1066.1	793.3	747.8	693.0	979.1	962.9	1188.0	1339.9
35°	1683.7	1631.2	1427.7	1159.4	953.6	799.4	932.8	941.3	1023.8	1243.5	1352.1
37.5°	1635.9	1650.5	1566.4	1383.7	1049.2	864.2	1009.1	1096.2	1104.0	1346.8	1433.2
40°	1760.0	1769.2	1739.9	1535.7	1210.4	994.5	1134.0	1215.7	1150.9	1474.0	1531.8
42.5°	1832.4	1847.1	1903.4	1756.1	1365.2	1137.1	1329.8	1272.0	1215.0	1583.4	1742.3
45°	1990.5	1982.8	2007.4	1832.4	1595.0	1430.8	1396.1	1378.4	1400.0	1780.0	1945.0
47.5°	2211.0	2241.8	2120.0	1869.4	1767.7	1503.2	1581.9	1615.9	1697.6	2034.4	2150.9
50°	2537.0	2497.7	2352.1	2033.6	1938.1	1598.9	1938.1	1782.4	1739.9	2266.4	2458.5
52.5°	2669.7	2644.2	2437.6	2103.1	2044.5	1780.0	1998.2	1958.8	1944.2	2587.1	2800.7
55°	2722.1	2703.6	2618.0	2115.4	2140.8	2050.6	2291.9	2337.4	2312.7	2790.7	3146.1
57.5°	2583.4	2614.2	2620.3	2165.5	2206.3	2082.2	2753.7	2424.5	2601.1	3045.8	3414.4
60°	2395.2	2396.8	2478.5	2159.3	2267.3	2284.2	2853.9	2809.2	2974.1	3180.8	3488.4
62.5°	1930.3	1985.1	2120.0	2116.2	2352.1	2546.3	3346.5	3058.2	3123.0	3318.0	3720.4
65°	1280.5	1309.8	1473.3	1754.6	2201.0	2755.2	3751.3	3445.2	3537.0	3579.3	4058.0
67.5°	763.9	800.3	823.4	1120.9	1837.8	2796.8	4590.8	4132.1	4048.8	3974.8	4396.5
70°	638.3	662.3	595.2	670.6	1123.2	2539.4	4995.5	5137.4	4866.8	4509.8	4468.1
72.5°	535.0	587.5	507.3	536.5	683.8	1507.1	4676.3	5855.1	5658.5	4599.3	4031.0
75°	397.0	470.3	422.5	481.8	631.4	774.0	3528.5	4947.7	4886.0	3986.3	2991.9
77.5°	310.0	323.0	264.4	363.9	606.7	639.9	2116.9	3261.7	3208.5	2541.7	1387.6
80°	217.4	222.8	208.9	189.7	468.7	599.8	1072.4	1808.6	1696.0	789.4	461.0
82.5°	137.2	146.5	163.5	128.8	227.4	559.7	591.3	796.4	709.2	268.3	228.9
85°	82.4	90.2	101.0	90.2	106.4	427.9	457.9	409.4	373.9	163.5	145.0
87.5°	47.8	50.1	60.9	62.4	79.4	249.0	365.4	304.5	267.5	108.7	94.0
90°	33.1	30.8	30.8	32.4	40.8	108.7	178.8	106.4	107.2	57.1	49.3
92.5°	25.5	25.5	27.7	27.7	39.3	95.5	82.4	57.1	54.0	47.8	39.3
95°	19.2	20.8	20.8	22.4	27.0	29.3	40.8	42.4	42.4	43.2	34.7
97.5°	16.2	17.7	17.7	18.5	21.6	22.4	28.5	37.0	37.0	36.2	28.5
100°	15.4	16.2	15.4	15.4	17.7	17.0	23.1	31.6	33.1	31.6	24.7
102.5°	14.6	15.4	13.9	12.4	15.4	12.4	19.2	28.5	29.3	23.1	19.2
105°	14.6	14.6	12.4	10.0	12.4	10.0	16.2	20.0	20.0	16.2	18.5
107.5°	14.6	13.9	10.8	8.5	9.2	8.5	13.1	13.1	13.1	12.4	17.7
110°	13.1	12.4	10.0	7.7	7.0	7.0	9.2	9.2	9.2	10.8	17.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	11.6	10.8	8.5	6.1	5.4	5.4	6.1	7.0	7.0	10.0	17.0
115°	10.0	10.0	7.7	6.1	4.6	4.6	5.4	6.1	6.1	9.2	16.2
117.5°	10.0	10.0	7.0	5.4	3.9	3.9	4.6	5.4	5.4	9.2	17.0
120°	10.0	10.0	7.0	4.6	3.9	3.1	3.9	4.6	4.6	10.0	17.7
122.5°	9.2	9.2	7.0	4.6	3.1	3.1	3.1	4.6	4.6	9.2	16.2
125°	9.2	9.2	6.1	4.6	3.1	3.1	3.1	3.9	4.6	10.0	16.2
127.5°	8.5	8.5	7.0	4.6	3.1	2.4	3.1	3.9	3.9	9.2	15.4
130°	8.5	8.5	6.1	3.9	2.4	2.4	2.4	3.1	3.9	8.5	13.9
132.5°	7.7	7.7	5.4	3.9	2.4	1.5	2.4	3.1	3.1	7.7	12.4
135°	7.7	7.7	6.1	3.9	2.4	1.5	2.4	3.1	3.1	7.0	10.8
137.5°	7.0	7.0	5.4	3.9	2.4	1.5	1.5	2.4	3.1	7.0	10.0
140°	7.0	7.0	6.1	4.6	2.4	1.5	1.5	2.4	2.4	5.4	7.7
142.5°	7.7	7.7	6.1	3.9	2.4	1.5	1.5	1.5	2.4	3.9	6.1
145°	7.0	7.0	5.4	3.9	2.4	0.8	0.8	1.5	2.4	3.9	5.4
147.5°	7.0	7.0	6.1	3.9	1.5	0.8	0.8	1.5	1.5	3.1	4.6
150°	6.1	6.1	4.6	2.4	0.8	0.0	0.8	1.5	1.5	2.4	3.9
152.5°	4.6	4.6	3.1	1.5	0.0	0.0	0.0	0.8	0.8	1.5	2.4
155°	2.4	2.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5
157.5°	0.8	0.8	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°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
2.5°	15.4	15.4	15.4	15.4	14.6	14.6	13.9	13.9	13.9	13.9	13.9
5°	14.6	14.6	14.6	13.9	13.1	12.4	13.1	12.4	12.4	12.4	12.4
7.5°	15.4	15.4	13.9	13.1	13.1	13.1	17.0	102.5	226.7	194.3	201.9
10°	28.5	27.0	23.1	19.2	17.7	101.8	194.3	178.1	135.6	113.3	116.4
12.5°	282.9	254.4	164.2	114.1	131.0	134.9	121.8	133.4	217.4	198.9	199.7
15°	282.9	289.9	237.4	267.5	231.3	107.9	208.2	248.3	241.3	222.0	232.8
17.5°	477.9	474.9	296.0	272.1	223.5	225.9	195.8	170.3	158.0	155.7	158.0
20°	708.5	590.5	564.3	410.9	251.3	230.5	161.9	137.2	175.0	215.8	221.3
22.5°	623.7	623.7	506.5	366.9	310.7	197.3	176.6	175.0	209.7	207.4	217.4
25°	1053.0	915.0	656.0	353.8	271.4	200.4	178.8	162.6	182.7	210.4	208.2
27.5°	971.4	901.2	648.3	425.5	212.8	218.2	165.0	160.4	205.8	221.3	222.8
30°	1225.7	1129.3	655.3	319.9	214.3	168.1	152.6	163.5	172.0	186.6	188.1
32.5°	1269.7	1149.4	629.0	288.4	225.9	161.9	155.0	154.2	175.0	201.2	203.6
35°	1242.7	1103.2	592.8	242.8	226.7	163.5	158.8	175.7	160.4	187.3	191.2
37.5°	1427.7	1126.3	535.0	226.7	208.2	168.1	208.2	168.1	167.3	175.7	177.3
40°	1425.4	1177.9	469.5	276.7	208.2	276.7	217.4	175.0	150.4	165.0	165.7
42.5°	1540.3	1207.3	411.6	285.2	224.3	320.7	202.7	170.3	178.8	188.1	197.3
45°	1672.8	1299.8	385.4	256.8	252.9	248.3	211.2	222.0	161.9	259.8	270.6
47.5°	1854.0	1418.4	350.0	251.3	343.1	249.8	402.4	206.6	178.1	307.6	313.7
50°	2124.7	1627.4	353.1	276.0	314.6	267.5	270.6	224.3	240.5	319.9	321.5
52.5°	2412.9	1802.3	332.3	304.5	309.1	328.4	288.4	335.3	236.7	307.6	307.6
55°	2668.2	2060.6	342.3	320.7	323.0	286.0	406.3	247.5	235.9	309.1	316.8
57.5°	3001.1	2336.6	410.9	335.3	331.5	305.2	313.7	306.8	277.5	314.6	319.2
60°	3177.7	2537.8	515.0	377.0	346.9	352.3	371.5	295.2	252.1	367.8	382.4
62.5°	3457.6	2827.7	652.2	427.1	440.2	360.8	316.8	321.5	268.3	293.0	296.0
65°	3780.5	3129.1	720.1	476.4	474.1	400.9	359.3	249.8	174.2	161.1	160.4
67.5°	4023.4	3245.5	659.1	532.7	591.3	384.7	246.7	177.3	134.1	126.4	128.8
70°	3866.9	2979.5	564.3	639.0	598.2	298.3	212.8	141.1	114.9	107.9	111.8
72.5°	3355.0	2407.5	518.0	674.5	525.0	201.2	158.8	124.1	103.3	96.4	97.9
75°	2371.3	1547.2	531.9	571.2	373.1	145.7	137.2	103.3	91.8	82.4	82.4
77.5°	1041.5	663.0	417.1	411.6	239.0	115.6	116.4	85.6	79.4	70.9	70.9
80°	419.4	350.8	245.1	238.2	159.6	90.9	92.5	70.9	71.7	60.1	56.3
82.5°	222.0	200.4	136.5	128.0	114.1	70.2	65.6	60.9	60.1	49.3	43.2
85°	145.7	131.9	89.4	83.3	84.8	51.7	54.7	57.8	53.2	40.8	28.5
87.5°	90.2	89.4	63.2	60.1	63.2	37.0	44.7	47.1	44.7	30.8	18.5
90°	42.4	46.2	42.4	41.6	41.6	17.7	34.7	37.0	36.2	24.7	14.6
92.5°	33.1	37.7	39.3	40.1	40.1	18.5	36.2	38.6	37.0	25.5	16.2
95°	28.5	33.1	38.6	38.6	37.7	14.6	34.0	37.7	35.5	23.9	15.4
97.5°	23.9	27.7	33.1	33.1	36.2	12.4	31.6	36.2	35.5	25.5	16.2
100°	22.4	26.2	29.3	30.1	33.1	11.6	28.5	32.4	31.6	20.8	17.0
102.5°	20.8	22.4	23.1	23.9	24.7	10.8	22.4	24.7	23.9	15.4	15.4
105°	19.2	19.2	17.0	16.2	16.2	10.0	13.9	17.0	13.9	12.4	13.9
107.5°	19.2	18.5	13.9	12.4	12.4	9.2	10.8	10.8	9.2	12.4	13.1
110°	19.2	17.7	12.4	10.8	10.0	8.5	8.5	7.7	7.7	12.4	13.1



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CATALOG NUMBER: UTLD-AF24-60-D-U-SL3-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	18.5	17.0	10.8	9.2	9.2	7.7	7.0	6.1	7.0	12.4	13.9
115°	17.7	16.2	10.0	9.2	8.5	7.0	6.1	4.6	7.0	13.1	14.6
117.5°	17.7	16.2	10.0	8.5	7.7	6.1	5.4	4.6	7.0	13.1	14.6
120°	18.5	16.2	10.0	7.7	7.0	5.4	4.6	4.6	7.0	13.1	14.6
122.5°	17.7	15.4	9.2	7.0	6.1	5.4	4.6	4.6	7.0	13.1	13.9
125°	17.0	15.4	9.2	6.1	5.4	4.6	3.9	3.9	7.7	13.1	13.9
127.5°	16.2	14.6	8.5	5.4	4.6	4.6	3.9	3.9	7.7	12.4	13.1
130°	14.6	13.1	8.5	5.4	3.9	3.9	3.1	3.1	7.7	12.4	13.1
132.5°	13.1	12.4	7.7	4.6	3.1	3.1	3.1	3.1	7.0	10.8	11.6
135°	11.6	10.0	7.0	3.9	3.1	2.4	2.4	2.4	6.1	9.2	10.0
137.5°	10.0	9.2	6.1	3.9	2.4	2.4	1.5	1.5	5.4	8.5	9.2
140°	8.5	7.7	5.4	3.1	2.4	2.4	1.5	1.5	3.9	6.1	7.0
142.5°	6.1	6.1	4.6	3.1	2.4	1.5	1.5	1.5	3.9	5.4	6.1
145°	5.4	5.4	4.6	3.1	2.4	1.5	0.8	0.8	2.4	3.9	3.9
147.5°	4.6	4.6	3.9	3.1	1.5	0.8	0.8	0.8	1.5	2.4	2.4
150°	3.9	3.9	3.1	2.4	1.5	0.8	0.0	0.0	0.8	1.5	1.5
152.5°	2.4	2.4	2.4	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.5	1.5	1.5	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.8	0.8	0.8	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)