

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: P239892

Luminaire Tested: **UTLD-AF24-100-D-U-T3-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-15)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-100-D-U-T3-A
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7343.9 lumens
Efficiency: N/A
Efficacy: 76.5 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 - U4 - G3

Input Watts (W): 96
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



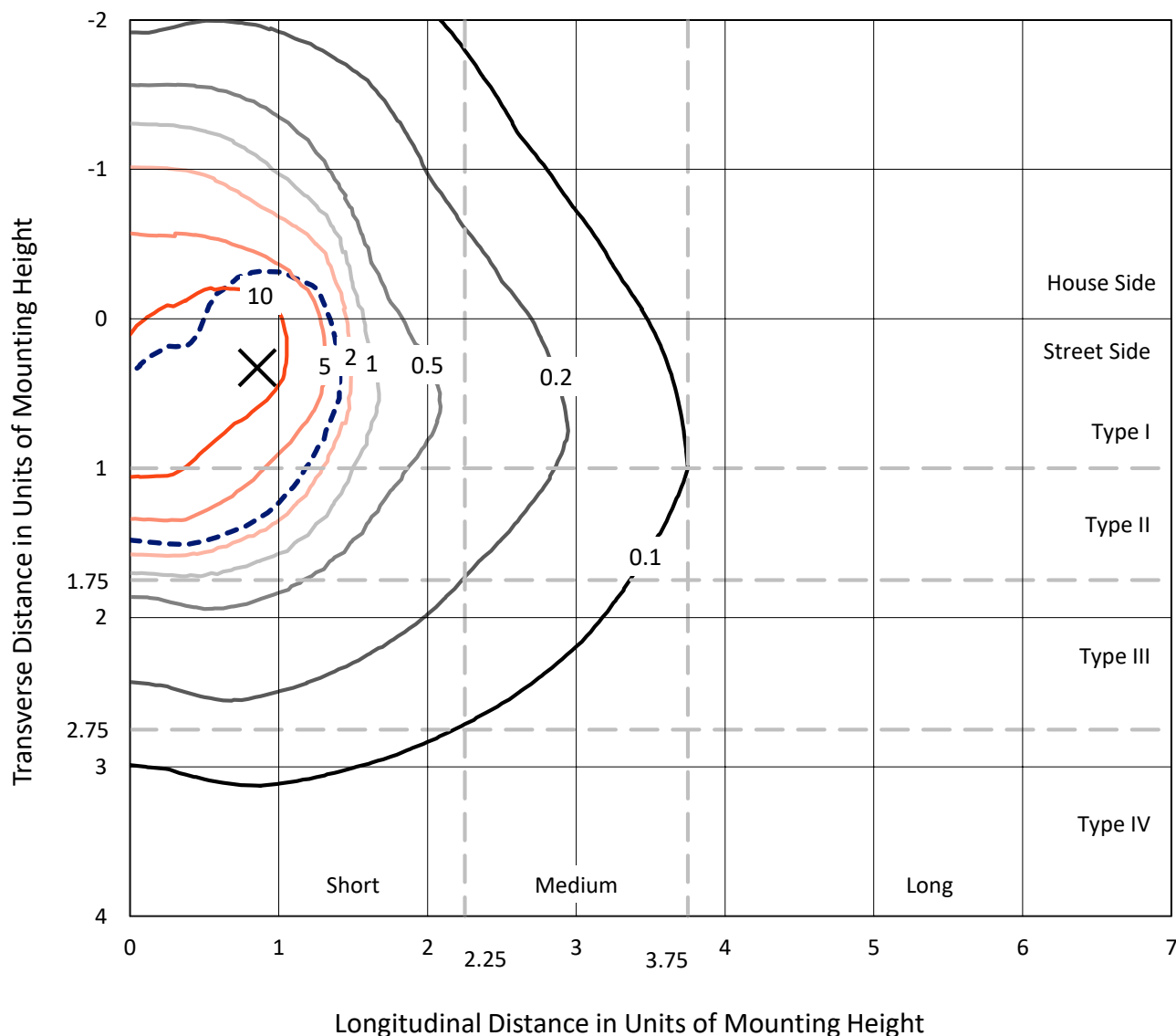
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

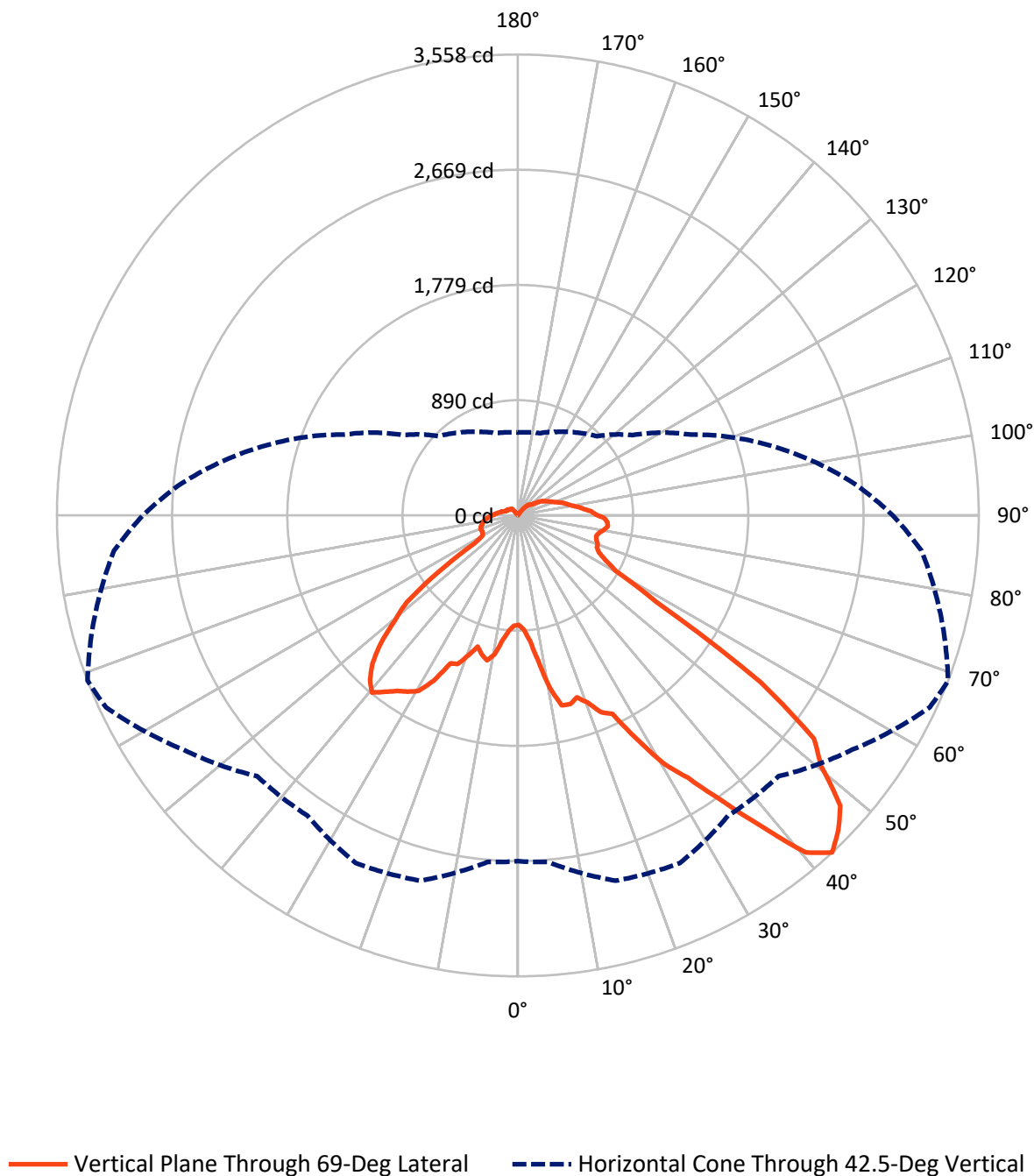


Based on 10 foot mounting height. Maximum calculated value = 17.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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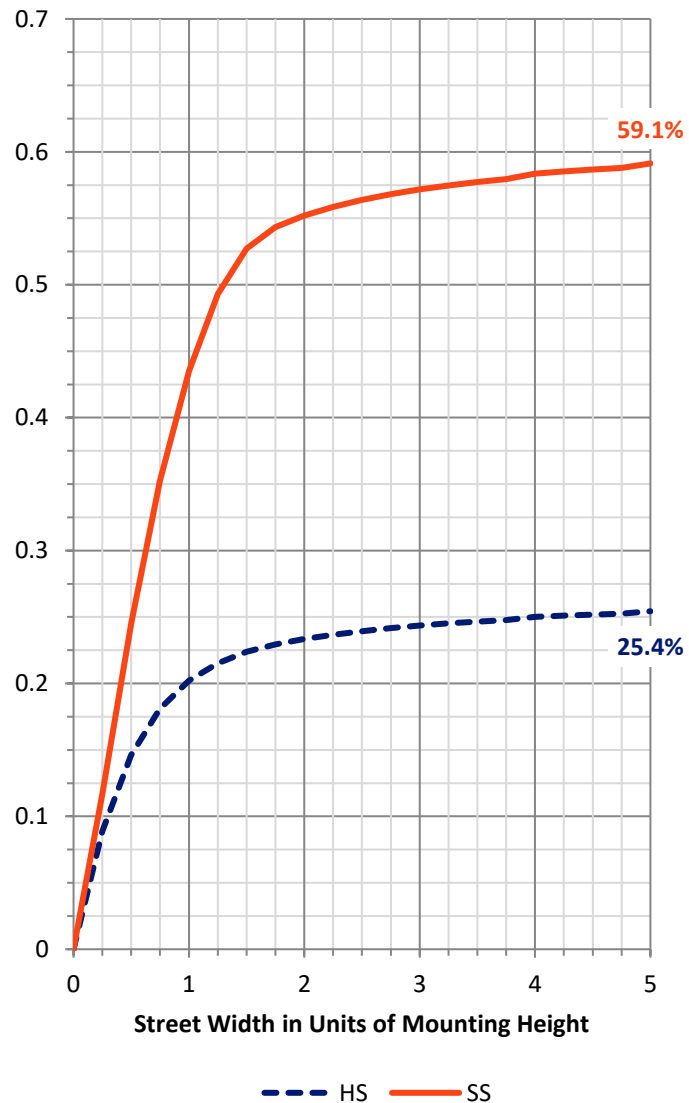
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1935.0	233.2	2168.2
	% Fixture	26.3	3.2	29.5
Street Side	Lumens	4483.9	691.8	5175.7
	% Fixture	61.1	9.4	70.5
Total	Lumens	6418.9	925.0	7343.9
	% Fixture	87.4	12.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	1.3
10°-20°	353.3	4.8
20°-30°	722.6	9.8
30°-40°	1215.4	16.5
40°-50°	1608.8	21.9
50°-60°	1160.2	15.8
60°-70°	455.7	6.2
70°-80°	410.6	5.6
80°-90°	400.2	5.4
90°-100°	337.5	4.6
100°-110°	240.0	3.3
110°-120°	161.8	2.2
120°-130°	105.8	1.4
130°-140°	63.3	0.9
140°-150°	16.0	0.2
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6418.9	87.4
0°-180°	7343.9	100.0

Coefficient of Utilization



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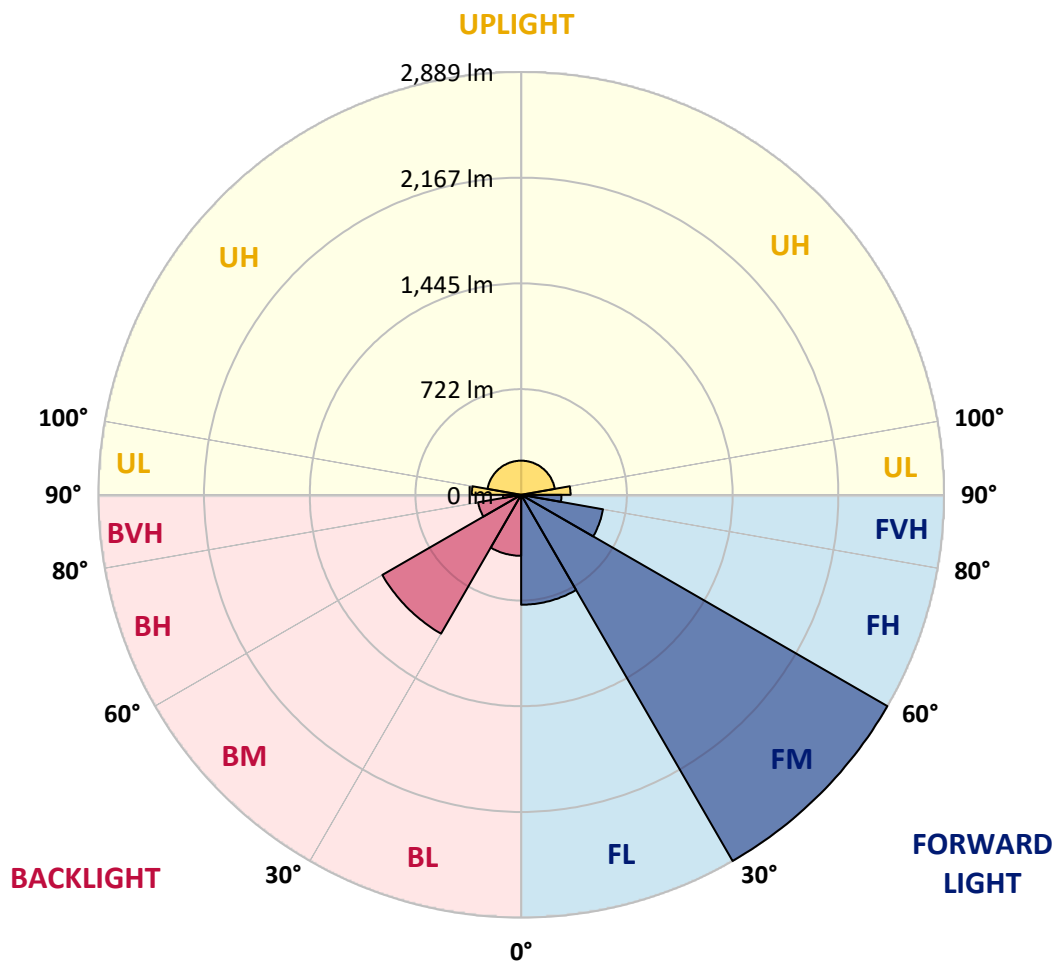
CATALOG NUMBER: UTLD-AF24-100-D-U-T3-A

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	751.1	10.2			
FM	(30°-60°)	2889.1	39.3			
FH	(60°-80°)	567.9	7.7			G0/660
FVH	(80°-90°)	275.8	3.8			G3/500
BL	(0°-30°)	416.8	5.7	B1/500		
BM	(30°-60°)	1095.3	14.9	B2/2500		
BH	(60°-80°)	298.5	4.1	B1/500		G1/500
BVH	(80°-90°)	124.4	1.7			G2/225
UL	(90°-100°)	337.5	4.6		U3/500	
UH	(100°-180°)	233.2	3.2		U3/500	

BUG Rating: B2-U4-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	845.0	845.0	845.0	845.0	845.0	845.0	845.0	845.0	845.0	845.0	845.0
2.5°	900.0	895.0	893.0	893.0	890.0	889.0	891.0	888.0	883.0	882.0	876.0
5°	963.0	961.0	960.0	968.0	975.0	977.0	975.0	975.0	969.0	969.0	950.0
7.5°	1064.0	1061.0	1069.0	1089.1	1096.1	1117.1	1142.1	1127.1	1131.1	1120.1	1084.1
10°	1181.1	1176.1	1213.1	1240.1	1302.1	1328.1	1360.1	1357.1	1351.1	1332.1	1272.1
12.5°	1287.1	1284.1	1332.1	1430.1	1513.1	1597.1	1604.1	1535.1	1504.1	1436.1	1361.1
15°	1419.1	1422.1	1495.1	1634.1	1757.1	1791.1	1706.1	1570.1	1512.1	1442.1	1331.1
17.5°	1632.1	1642.1	1766.1	1924.1	2006.1	1869.1	1687.1	1531.1	1476.1	1400.1	1293.1
20°	1756.1	1762.1	1932.1	2146.1	2170.1	1948.1	1759.1	1591.1	1543.1	1483.1	1395.1
22.5°	1830.1	1852.1	2047.1	2309.1	2295.1	2132.1	1870.1	1711.1	1651.1	1569.1	1497.1
25°	1949.1	1965.1	2152.1	2405.1	2343.1	2192.1	1969.1	1757.1	1698.1	1638.1	1566.1
27.5°	2110.1	2125.1	2335.1	2481.1	2416.1	2272.1	2117.1	1981.1	1950.1	1940.1	1909.1
30°	2196.1	2206.1	2442.1	2565.1	2454.1	2387.1	2344.1	2235.1	2226.1	2206.1	2135.1
32.5°	2245.1	2283.1	2557.1	2628.1	2483.1	2475.1	2501.1	2434.1	2416.1	2382.1	2300.1
35°	2289.1	2308.1	2566.1	2674.1	2530.1	2526.1	2705.1	2736.1	2696.1	2626.1	2430.1
37.5°	2628.1	2637.1	2814.1	2776.1	2592.1	2614.1	2909.1	3070.1	3034.1	2947.1	2812.1
40°	2812.1	2828.1	2992.1	2913.1	2723.1	2748.1	3056.1	3390.2	3422.2	3419.2	3301.2
42.5°	2669.1	2686.1	2919.1	2961.1	2830.1	2847.1	3152.1	3507.2	3558.2	3401.2	3129.1
45°	3135.1	3148.1	3279.2	2972.1	2757.1	2822.1	3077.1	3422.2	3468.2	3422.2	3189.1
47.5°	3134.1	3118.1	3227.2	3003.1	2752.1	2708.1	2914.1	3259.2	3350.2	3245.2	2992.1
50°	2755.1	2754.1	3023.1	2894.1	2698.1	2596.1	2735.1	3008.1	3030.1	2907.1	2568.1
52.5°	2406.1	2404.1	2715.1	2649.1	2521.1	2421.1	2507.1	2779.1	2863.1	2755.1	2472.1
55°	2097.1	2183.1	2456.1	2315.1	2262.1	2163.1	2249.1	2316.1	2273.1	1973.1	1331.1
57.5°	1270.1	1365.1	1721.1	1823.1	1835.1	1764.1	1569.1	1340.1	1258.1	1005.0	600.0
60°	592.0	615.0	903.0	1099.1	1341.1	1226.1	992.0	864.0	864.0	759.0	521.0
62.5°	417.0	433.0	593.0	709.0	803.0	792.0	704.0	722.0	758.0	711.0	502.0
65°	392.0	402.0	528.0	563.0	599.0	606.0	594.0	649.0	687.0	681.0	509.0
67.5°	364.0	377.0	482.0	505.0	533.0	546.0	555.0	619.0	659.0	681.0	529.0
70°	331.0	346.0	445.0	477.0	504.0	534.0	545.0	614.0	655.0	677.0	536.0
72.5°	300.0	313.0	396.0	436.0	484.0	519.0	563.0	605.0	633.0	656.0	540.0
75°	270.0	285.0	355.0	401.0	457.0	523.0	576.0	607.0	626.0	644.0	535.0
77.5°	250.0	266.0	321.0	374.0	441.0	532.0	592.0	632.0	643.0	646.0	529.0
80°	232.0	250.0	308.0	364.0	437.0	536.0	611.0	659.0	674.0	681.0	563.0
82.5°	245.0	261.0	311.0	379.0	450.0	535.0	606.0	682.0	699.0	695.0	574.0
85°	277.0	290.0	351.0	415.0	470.0	526.0	588.0	671.0	695.0	716.0	608.0
87.5°	337.0	343.0	387.0	446.0	491.0	509.0	571.0	649.0	671.0	678.0	592.0
90°	369.0	375.0	427.0	476.0	490.0	496.0	509.0	587.0	603.0	631.0	566.0
92.5°	406.0	406.0	460.0	489.0	489.0	464.0	473.0	543.0	570.0	586.0	526.0
95°	442.0	440.0	470.0	487.0	461.0	426.0	441.0	496.0	513.0	530.0	489.0
97.5°	453.0	452.0	470.0	460.0	417.0	384.0	403.0	450.0	468.0	486.0	444.0
100°	441.0	436.0	441.0	419.0	379.0	354.0	365.0	404.0	423.0	438.0	400.0
102.5°	415.0	412.0	414.0	392.0	350.0	320.0	335.0	376.0	390.0	402.0	368.0
105°	403.0	398.0	389.0	357.0	316.0	295.0	308.0	349.0	362.0	386.0	358.0
107.5°	343.0	339.0	332.0	315.0	294.0	278.0	289.0	318.0	326.0	338.0	312.0
110°	296.0	294.0	292.0	288.0	275.0	264.0	270.0	286.0	296.0	305.0	279.0



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CATALOG NUMBER: UTLD-AF24-100-D-U-T3-A

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
112.5°	286.0	283.0	281.0	274.0	257.0	245.0	249.0	267.0	273.0	276.0	248.0
115°	273.0	270.0	259.0	249.0	237.0	231.0	232.0	247.0	251.0	253.0	236.0
117.5°	242.0	239.0	232.0	228.0	221.0	218.0	223.0	231.0	232.0	233.0	218.0
120°	224.0	223.0	219.0	212.0	207.0	200.0	208.0	216.0	219.0	222.0	212.0
122.5°	204.0	202.0	198.0	189.0	189.0	185.0	184.0	189.0	190.0	198.0	193.0
125°	180.0	178.0	174.0	166.0	176.0	176.0	169.0	158.0	161.0	168.0	164.0
127.5°	161.0	159.0	155.0	151.0	165.0	170.0	158.0	138.0	140.0	142.0	139.0
130°	158.0	156.0	151.0	144.0	148.0	163.0	142.0	126.0	129.0	131.0	129.0
132.5°	155.0	154.0	147.0	138.0	133.0	147.0	123.0	119.0	122.0	125.0	123.0
135°	145.0	144.0	138.0	125.0	111.0	118.0	98.0	104.0	109.0	113.0	111.0
137.5°	129.0	128.0	123.0	110.0	91.0	85.0	75.0	89.0	93.0	98.0	98.0
140°	104.0	103.0	98.0	85.0	64.0	45.0	48.0	68.0	72.0	78.0	79.0
142.5°	76.0	74.0	69.0	57.0	36.0	15.0	27.0	41.0	46.0	52.0	56.0
145°	52.0	51.0	44.0	34.0	17.0	2.0	12.0	25.0	28.0	32.0	36.0
147.5°	33.0	33.0	28.0	19.0	5.0	2.0	3.0	13.0	16.0	20.0	23.0
150°	20.0	20.0	15.0	6.0	1.0	1.0	1.0	2.0	5.0	9.0	12.0
152.5°	5.0	5.0	3.0	2.0	1.0	0.0	1.0	1.0	1.0	1.0	2.0
155°	2.0	2.0	2.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
157.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.0	1.0	1.0	0.0	1.0	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°	845.0	845.0	845.0	845.0	845.0	845.0	845.0	845.0	845.0	845.0	845.0
2.5°	873.0	867.0	859.0	848.0	837.0	826.0	815.0	809.0	806.0	804.0	803.0
5°	945.0	932.0	911.0	882.0	846.0	825.0	810.0	792.0	780.0	776.0	773.0
7.5°	1072.0	1051.0	1009.0	947.0	903.0	841.0	788.0	754.0	729.0	715.0	715.0
10°	1242.1	1212.1	1139.1	1054.0	941.0	832.0	750.0	688.0	659.0	647.0	644.0
12.5°	1317.1	1288.1	1202.1	1103.1	983.0	856.0	752.0	678.0	643.0	629.0	631.0
15°	1279.1	1239.1	1165.1	1072.0	978.0	898.0	811.0	719.0	659.0	643.0	648.0
17.5°	1241.1	1200.1	1121.1	1018.0	926.0	873.0	812.0	750.0	693.0	670.0	666.0
20°	1352.1	1322.1	1215.1	1098.1	960.0	826.0	783.0	755.0	736.0	737.0	728.0
22.5°	1458.1	1417.1	1319.1	1182.1	1033.0	916.0	846.0	809.0	788.0	797.0	798.0
25°	1529.1	1498.1	1353.1	1189.1	1065.0	978.0	877.0	825.0	790.0	790.0	786.0
27.5°	1890.1	1813.1	1583.1	1332.1	1147.1	1003.0	881.0	821.0	777.0	764.0	766.0
30°	2079.1	2003.1	1740.1	1435.1	1241.1	1063.0	892.0	799.0	788.0	779.0	782.0
32.5°	2241.1	2129.1	1818.1	1462.1	1224.1	1072.0	916.0	804.0	751.0	742.0	746.0
35°	2321.1	2196.1	1880.1	1486.1	1232.1	1034.0	887.0	783.0	749.0	740.0	743.0
37.5°	2690.1	2503.1	1978.1	1522.1	1230.1	984.0	848.0	764.0	701.0	674.0	674.0
40°	3114.1	2839.1	2149.1	1520.1	1154.1	941.0	805.0	727.0	677.0	656.0	655.0
42.5°	2894.1	2632.1	2049.1	1475.1	1080.1	863.0	781.0	711.0	657.0	643.0	640.0
45°	2986.1	2706.1	1977.1	1349.1	969.0	801.0	724.0	675.0	613.0	581.0	580.0
47.5°	2694.1	2469.1	1830.1	1189.1	873.0	704.0	656.0	624.0	585.0	558.0	555.0
50°	2337.1	2110.1	1540.1	1054.0	744.0	624.0	591.0	575.0	536.0	505.0	507.0
52.5°	2233.1	1958.1	1342.1	920.0	640.0	544.0	528.0	510.0	471.0	435.0	439.0
55°	1107.1	917.0	816.0	715.0	537.0	473.0	466.0	455.0	416.0	385.0	386.0
57.5°	516.0	445.0	390.0	415.0	405.0	411.0	408.0	401.0	364.0	320.0	317.0
60°	462.0	396.0	331.0	314.0	333.0	359.0	357.0	335.0	288.0	236.0	230.0
62.5°	446.0	379.0	321.0	296.0	304.0	321.0	309.0	281.0	243.0	195.0	194.0
65°	454.0	383.0	320.0	289.0	295.0	302.0	285.0	265.0	242.0	209.0	209.0
67.5°	471.0	398.0	327.0	286.0	289.0	296.0	280.0	266.0	254.0	232.0	232.0
70°	476.0	405.0	331.0	287.0	284.0	290.0	279.0	266.0	259.0	241.0	240.0
72.5°	478.0	409.0	329.0	282.0	275.0	280.0	272.0	266.0	263.0	249.0	247.0
75°	469.0	405.0	319.0	271.0	264.0	266.0	264.0	263.0	267.0	258.0	255.0
77.5°	458.0	399.0	311.0	259.0	251.0	252.0	250.0	253.0	257.0	251.0	246.0
80°	481.0	416.0	312.0	250.0	235.0	230.0	231.0	234.0	239.0	226.0	219.0
82.5°	489.0	417.0	298.0	230.0	211.0	204.0	206.0	214.0	218.0	206.0	199.0
85°	519.0	436.0	288.0	212.0	190.0	183.0	185.0	190.0	188.0	174.0	168.0
87.5°	507.0	423.0	270.0	191.0	173.0	167.0	168.0	170.0	163.0	145.0	140.0
90°	490.0	408.0	250.0	168.0	153.0	151.0	149.0	146.0	134.0	115.0	110.0
92.5°	459.0	381.0	232.0	152.0	136.0	135.0	132.0	126.0	115.0	96.0	91.0
95°	433.0	357.0	215.0	139.0	122.0	118.0	118.0	112.0	100.0	84.0	82.0
97.5°	390.0	325.0	198.0	128.0	109.0	105.0	104.0	100.0	91.0	79.0	78.0
100°	353.0	294.0	180.0	116.0	98.0	94.0	92.0	90.0	83.0	76.0	76.0
102.5°	327.0	272.0	168.0	106.0	88.0	84.0	84.0	82.0	78.0	73.0	73.0
105°	320.0	267.0	163.0	97.0	78.0	76.0	77.0	77.0	74.0	71.0	71.0
107.5°	278.0	230.0	140.0	86.0	71.0	69.0	70.0	71.0	70.0	69.0	69.0
110°	248.0	209.0	130.0	81.0	67.0	64.0	64.0	64.0	64.0	65.0	66.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	222.0	186.0	119.0	77.0	63.0	60.0	59.0	58.0	57.0	61.0	61.0
115°	212.0	181.0	116.0	75.0	60.0	57.0	54.0	52.0	50.0	53.0	54.0
117.5°	197.0	170.0	113.0	75.0	59.0	54.0	51.0	48.0	45.0	48.0	48.0
120°	193.0	169.0	115.0	76.0	57.0	50.0	47.0	43.0	41.0	44.0	45.0
122.5°	178.0	158.0	109.0	72.0	55.0	48.0	45.0	37.0	37.0	39.0	40.0
125°	151.0	134.0	94.0	65.0	52.0	48.0	44.0	33.0	34.0	36.0	36.0
127.5°	129.0	116.0	86.0	63.0	53.0	49.0	41.0	31.0	33.0	36.0	36.0
130°	122.0	111.0	87.0	66.0	55.0	50.0	34.0	27.0	32.0	35.0	35.0
132.5°	117.0	108.0	87.0	69.0	57.0	46.0	27.0	24.0	27.0	29.0	29.0
135°	106.0	100.0	83.0	66.0	52.0	36.0	22.0	21.0	25.0	27.0	27.0
137.5°	95.0	89.0	76.0	61.0	46.0	29.0	16.0	19.0	21.0	23.0	23.0
140°	78.0	74.0	63.0	50.0	34.0	16.0	12.0	15.0	18.0	20.0	20.0
142.5°	55.0	53.0	44.0	32.0	19.0	6.0	8.0	11.0	13.0	15.0	15.0
145°	36.0	34.0	28.0	20.0	8.0	2.0	5.0	7.0	10.0	11.0	11.0
147.5°	23.0	22.0	17.0	10.0	3.0	2.0	2.0	5.0	8.0	9.0	9.0
150°	11.0	10.0	7.0	3.0	2.0	1.0	1.0	2.0	5.0	6.0	6.0
152.5°	2.0	2.0	2.0	1.0	1.0	0.0	0.0	1.0	1.0	2.0	2.0
155°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	1.0	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	1.0	1.0	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)