

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: P266501

Luminaire Tested: **UTLD-AF24-90-D-U-SL3-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-17)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-90-D-U-SL3-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6088.1 lumens
Efficiency: N/A
Efficacy: 64.8 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: B1 - U4 - G3

Input Watts (W): 94
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



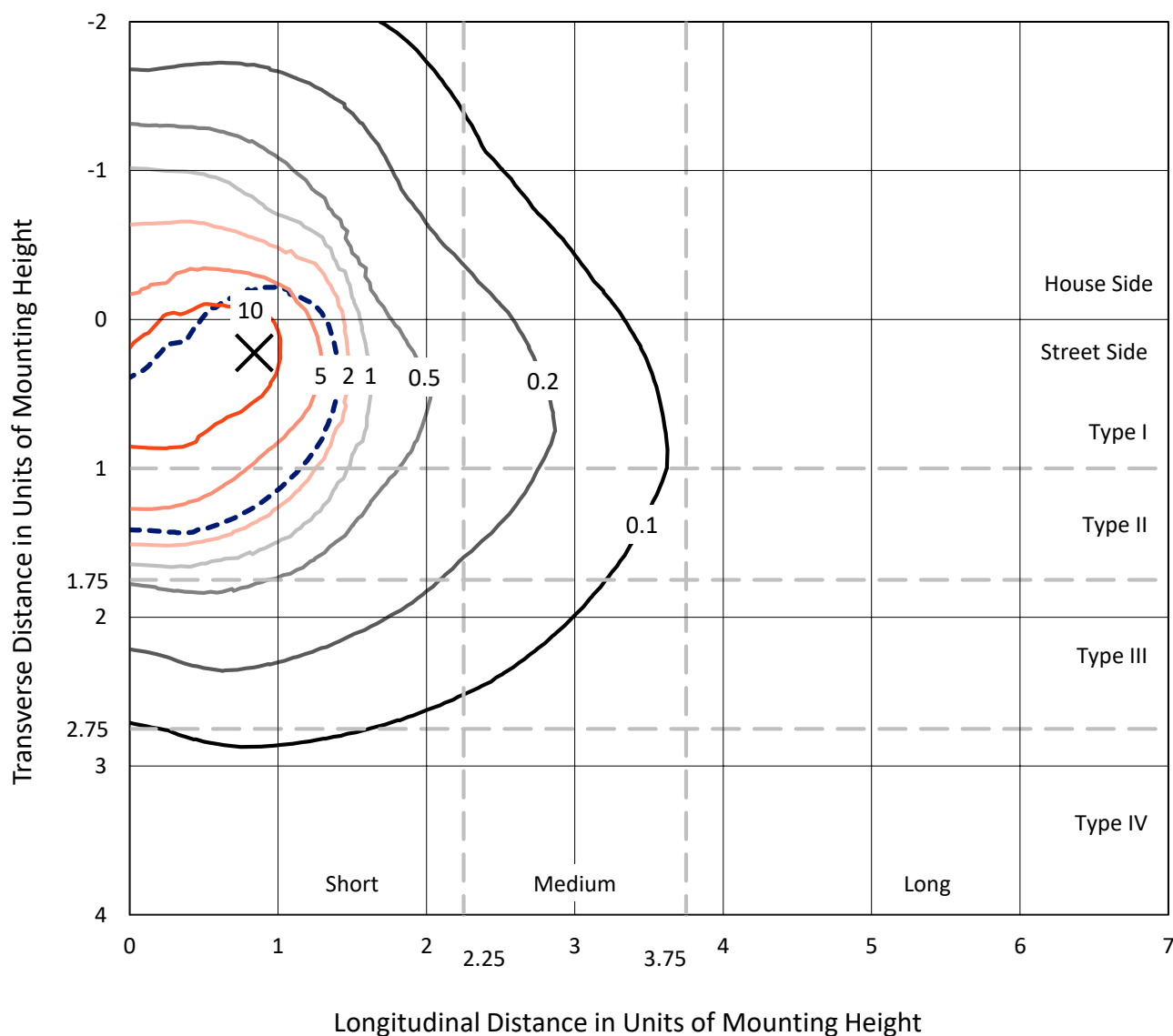
REPORT NUMBER: P266501

CATALOG NUMBER: UTLD-AF24-90-D-U-SL3-A-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

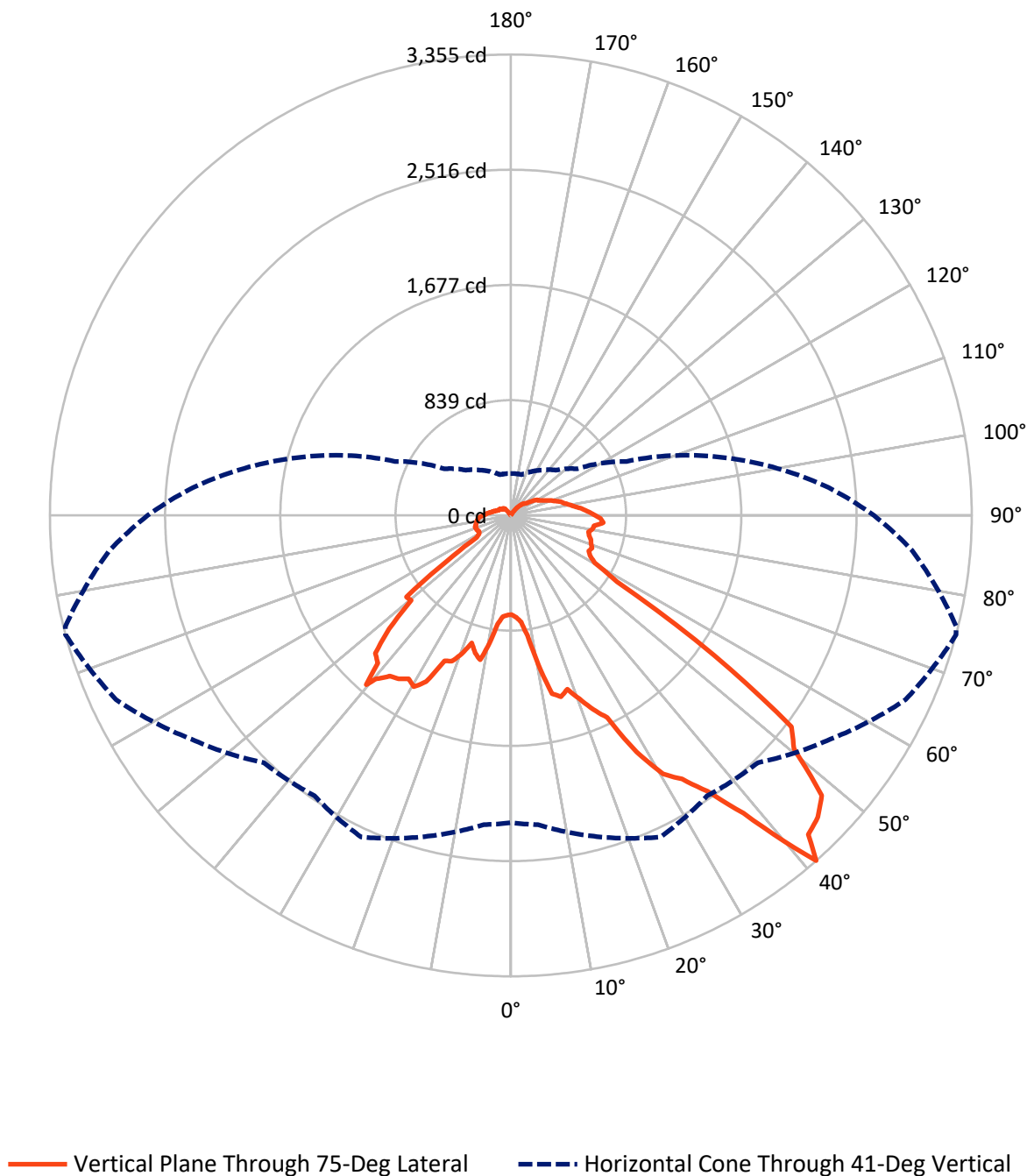


Based on 10 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P266501

CATALOG NUMBER: UTLD-AF24-90-D-U-SL3-A-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266501

CATALOG NUMBER: UTLD-AF24-90-D-U-SL3-A-7027

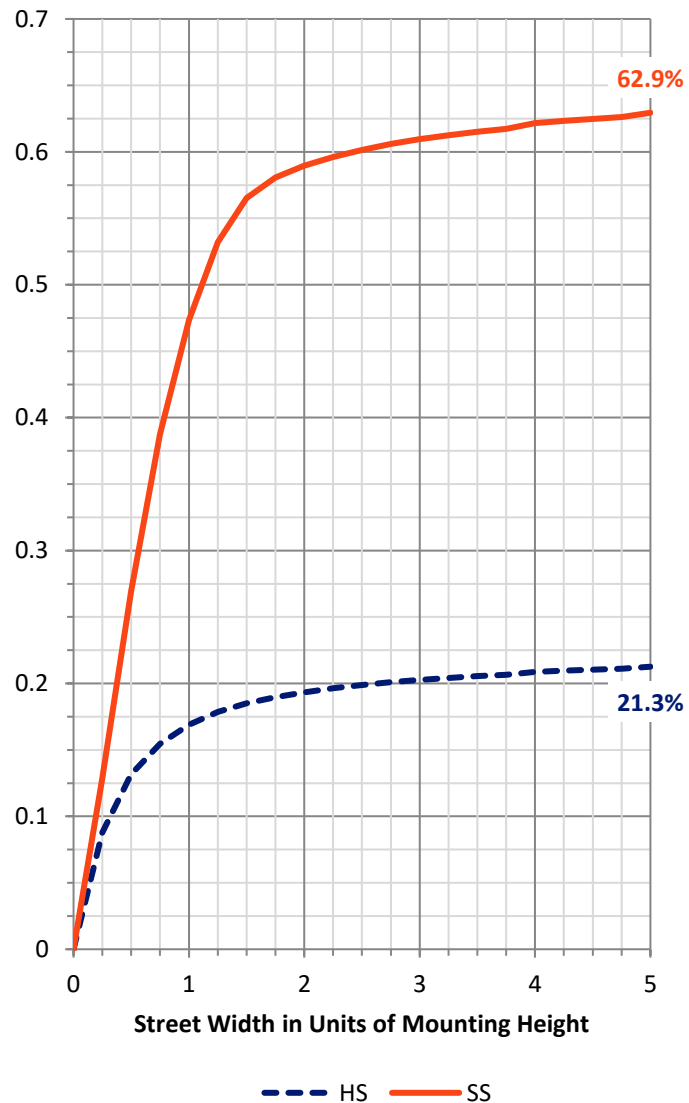
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1343.0	171.3	1514.2
	% Fixture	22.1	2.8	24.9
Street Side	Lumens	3949.7	624.2	4573.9
	% Fixture	64.9	10.3	75.1
Total	Lumens	5292.7	795.5	6088.1
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	1.2
10°-20°	301.3	4.9
20°-30°	619.0	10.2
30°-40°	1007.7	16.6
40°-50°	1308.9	21.5
50°-60°	928.0	15.2
60°-70°	377.2	6.2
70°-80°	341.3	5.6
80°-90°	333.4	5.5
90°-100°	286.0	4.7
100°-110°	207.1	3.4
110°-120°	141.3	2.3
120°-130°	91.8	1.5
130°-140°	54.7	0.9
140°-150°	13.9	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5292.7	86.9
0°-180°	6088.1	100.0

Coefficient of Utilization



REPORT NUMBER: P266501

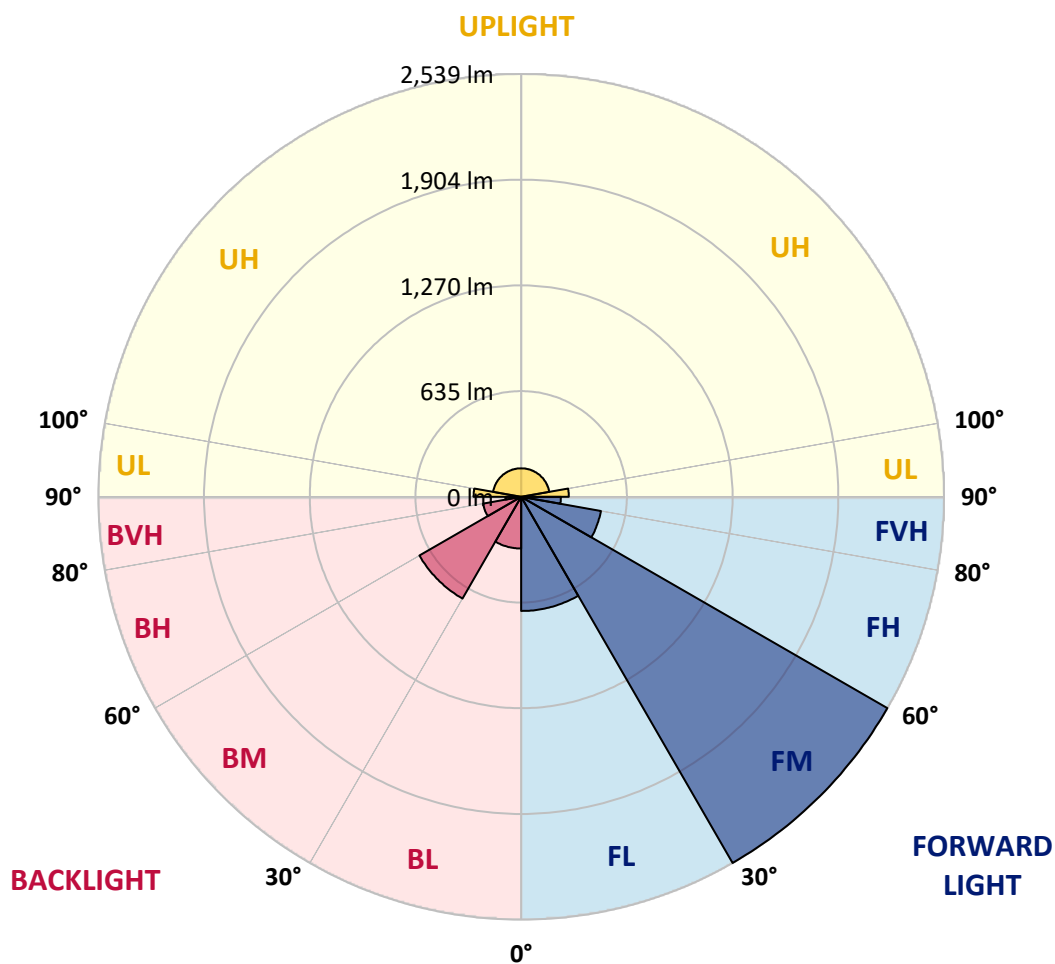
CATALOG NUMBER: UTLD-AF24-90-D-U-SL3-A-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	685.6	11.3			
FM	(30°-60°)	2539.2	41.7			
FH	(60°-80°)	486.1	8.0			G0/660
FVH	(80°-90°)	238.8	3.9			G3/500
BL	(0°-30°)	310.7	5.1	B1/500		
BM	(30°-60°)	705.4	11.6	B1/1000		
BH	(60°-80°)	232.3	3.8	B1/500		G1/500
BVH	(80°-90°)	94.6	1.6			G1/100
UL	(90°-100°)	286.0	4.7		U3/500	
UH	(100°-180°)	171.3	2.8		U3/500	

BUG Rating: B1-U4-G3

Type II Short





REPORT NUMBER: P266501

CATALOG NUMBER: UTLD-AF24-90-D-U-SL3-A-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1
2.5°	772.5	774.2	770.7	768.1	766.4	761.3	756.9	750.9	742.1	741.3	737.8
5°	842.7	842.7	842.7	836.6	829.8	818.4	809.0	795.0	778.6	777.8	764.6
7.5°	956.2	956.2	951.0	942.4	926.8	909.4	907.7	906.0	883.5	880.9	857.4
10°	1078.5	1075.0	1077.6	1084.7	1092.3	1115.9	1130.5	1132.3	1108.0	1102.0	1068.2
12.5°	1126.3	1129.7	1160.0	1215.5	1309.2	1402.9	1451.3	1411.4	1330.7	1320.4	1240.6
15°	1199.1	1203.4	1253.7	1346.4	1502.4	1637.7	1596.1	1496.4	1368.9	1359.5	1236.3
17.5°	1394.1	1414.0	1462.6	1610.0	1768.7	1714.1	1573.7	1445.3	1330.0	1318.7	1215.5
20°	1531.2	1542.4	1636.1	1777.3	1889.1	1806.0	1709.7	1580.5	1425.3	1425.3	1344.8
22.5°	1644.6	1641.3	1717.5	1930.7	1995.9	1942.0	1830.1	1698.4	1533.6	1526.0	1420.9
25°	1823.3	1834.6	1966.3	2202.1	2142.3	2005.3	1858.0	1737.4	1629.0	1619.6	1514.6
27.5°	1927.4	1956.8	2108.5	2313.1	2275.0	2090.3	1961.1	1942.9	1950.7	1942.9	1828.5
30°	1953.4	1966.3	2153.5	2356.4	2330.5	2193.5	2193.5	2223.8	2183.9	2172.7	2019.2
32.5°	2018.3	2049.6	2229.1	2386.8	2323.6	2297.5	2311.3	2305.3	2288.0	2272.4	2093.8
35°	2124.1	2151.0	2319.2	2438.0	2322.7	2332.2	2457.0	2529.0	2466.6	2452.7	2186.6
37.5°	2402.4	2428.5	2580.1	2573.3	2384.2	2402.4	2628.7	2760.5	2749.3	2747.5	2484.0
40°	2346.9	2432.8	2616.6	2645.1	2476.1	2496.1	2766.6	3052.7	3184.4	3181.0	2854.2
41°	2235.9	2259.3	2419.8	2581.9	2490.9	2543.7	2838.6	3170.6	3354.5	3341.3	2932.2
42.5°	2275.9	2317.4	2412.8	2466.6	2473.6	2579.4	2894.9	3185.3	3175.8	3169.7	2835.1
45°	2615.8	2633.0	2672.9	2569.7	2395.5	2527.3	2863.6	3133.3	3132.4	3104.7	2953.8
47.5°	2451.8	2501.3	2671.2	2579.4	2387.7	2386.0	2607.1	2972.0	3044.9	3005.0	2629.6
50°	2319.2	2354.7	2453.6	2355.5	2271.5	2269.7	2477.9	2752.6	2669.5	2658.2	2142.3
52.5°	2057.4	2092.1	2162.3	2138.0	2090.3	2085.1	2243.7	2531.7	2557.7	2548.9	2162.3
55°	1564.0	1588.4	1852.8	1859.8	1824.2	1841.4	1969.9	2086.9	1795.5	1748.7	1215.5
57.5°	919.0	981.4	1238.0	1398.4	1472.1	1486.1	1441.8	1234.6	911.2	878.3	560.9
60°	453.5	485.5	664.0	834.0	1024.7	1031.8	891.3	788.9	699.7	679.7	490.7
62.5°	323.4	342.4	459.6	549.7	656.3	673.6	624.2	666.7	647.7	635.6	477.7
65°	293.0	309.6	407.6	455.3	499.4	526.2	538.4	609.5	624.2	616.4	474.2
67.5°	268.0	284.4	372.0	408.4	441.2	484.6	510.6	580.8	637.3	632.0	502.8
70°	236.8	255.7	335.5	379.8	420.4	470.0	505.4	579.1	619.9	613.0	487.2
72.5°	207.1	224.5	289.6	341.5	401.5	457.7	510.6	564.5	609.5	603.4	493.3
75°	180.3	197.6	254.0	307.8	376.3	461.2	514.1	560.1	588.7	580.0	484.6
77.5°	162.1	179.5	228.0	280.9	357.2	466.4	561.8	579.1	578.2	569.6	474.2
80°	147.4	164.7	210.7	261.9	339.9	477.7	600.8	618.2	602.6	591.3	476.8
82.5°	143.1	159.4	201.9	258.4	343.3	484.6	612.0	655.5	611.2	597.4	474.2
85°	158.7	169.2	213.3	276.6	365.9	496.9	607.8	676.2	675.3	660.7	517.7
87.5°	189.1	197.6	241.0	305.2	390.1	503.7	661.5	689.3	652.9	645.9	522.9
90°	234.1	240.1	285.2	344.2	415.2	500.3	545.4	580.8	605.2	600.0	496.0
92.5°	278.4	286.1	326.9	370.2	402.4	430.0	474.2	556.6	560.1	555.7	476.8
95°	330.3	335.5	359.0	380.6	387.6	397.1	441.2	477.7	517.7	512.5	459.6
97.5°	359.0	361.6	372.0	369.4	352.9	354.7	404.0	443.0	467.3	461.2	402.4
100°	352.0	354.7	356.4	340.7	318.2	325.1	365.9	412.7	431.7	429.2	372.7
102.5°	329.5	333.8	334.7	319.1	298.2	299.9	339.9	375.4	395.3	391.9	347.6
105°	323.4	325.1	317.3	296.5	272.2	275.7	313.9	352.0	375.4	373.6	328.6
107.5°	291.3	293.0	281.8	261.9	253.1	262.8	297.3	321.7	337.3	337.3	293.0



REPORT NUMBER: P266501

CATALOG NUMBER: UTLD-AF24-90-D-U-SL3-A-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	244.5	244.5	242.0	237.5	239.3	253.1	281.8	297.3	310.4	309.6	268.0
112.5°	236.8	234.9	232.3	228.9	223.7	234.9	254.0	273.2	275.7	274.8	239.3
115°	233.2	230.7	221.9	212.4	206.3	215.1	229.7	247.2	254.0	253.1	228.0
117.5°	206.3	206.3	199.5	192.4	189.9	201.1	219.4	230.7	231.6	233.2	208.9
120°	184.7	184.7	180.3	176.8	178.7	183.9	203.7	213.3	221.9	221.2	200.3
122.5°	168.3	169.2	165.6	158.7	164.7	169.9	181.2	190.7	200.3	199.5	184.7
125°	151.8	150.8	147.4	139.5	153.5	160.3	161.2	160.3	169.9	169.9	156.9
127.5°	134.3	133.5	130.1	125.8	143.9	153.5	151.8	137.9	143.9	143.1	137.0
130°	132.7	131.8	125.8	120.6	129.1	145.6	137.9	128.3	133.5	134.3	128.3
132.5°	131.8	131.0	124.9	116.2	113.5	131.0	117.0	118.8	124.9	124.9	119.7
135°	123.1	122.3	117.0	104.9	92.7	108.3	92.7	102.2	110.1	110.1	105.8
137.5°	108.3	107.4	102.2	91.8	74.6	77.2	70.2	85.9	94.5	95.4	91.8
140°	85.9	86.6	81.4	71.1	53.8	40.8	46.0	66.7	75.5	75.5	74.6
142.5°	64.1	64.1	59.0	48.6	31.3	14.7	26.1	40.8	51.2	52.0	53.8
145°	45.0	45.0	39.9	31.3	15.6	2.6	12.1	24.3	32.1	32.1	34.7
147.5°	29.5	29.5	25.2	17.3	4.3	0.9	3.5	12.1	19.0	19.0	20.8
150°	18.2	18.2	13.8	5.2	0.9	0.0	0.9	2.6	8.7	8.7	11.3
152.5°	6.1	5.2	2.6	1.7	0.9	0.0	0.0	0.9	0.9	0.9	2.6
155°	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9
157.5°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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

REPORT NUMBER: P266501

CATALOG NUMBER: UTLD-AF24-90-D-U-SL3-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1
2.5°	733.5	731.7	725.7	717.8	708.4	696.1	688.5	684.9	680.6	677.1	678.8
5°	757.7	751.7	737.8	712.6	689.3	671.9	658.1	645.9	639.9	634.7	634.7
7.5°	846.2	835.8	796.7	754.2	701.3	653.6	619.9	602.6	582.6	577.4	576.5
10°	1038.6	1025.7	943.3	841.0	741.3	647.7	562.7	516.7	495.1	483.7	486.4
12.5°	1198.2	1168.7	1075.0	958.9	821.1	670.1	552.3	470.0	433.5	419.6	414.4
15°	1185.1	1135.7	1034.3	924.1	816.6	706.5	588.7	496.0	420.4	395.3	390.1
17.5°	1156.6	1104.6	970.2	828.9	703.2	635.6	569.6	502.1	444.8	406.7	399.7
20°	1302.3	1243.3	1068.2	927.7	750.9	580.0	504.6	466.4	430.0	411.0	406.7
22.5°	1364.6	1304.8	1143.5	965.8	790.7	643.2	520.2	450.1	421.3	417.9	412.7
25°	1458.3	1382.9	1163.5	939.7	770.7	650.3	521.0	451.7	409.2	409.2	406.7
27.5°	1760.9	1650.7	1358.5	1043.8	800.2	625.1	508.0	431.7	380.6	360.7	356.4
30°	1896.1	1791.2	1433.2	1070.7	813.2	631.1	483.7	396.2	362.3	347.6	345.9
32.5°	1994.1	1857.1	1402.0	1005.7	747.3	589.6	462.9	383.1	349.4	336.3	332.9
35°	2042.7	1862.2	1443.5	982.2	707.4	541.0	438.7	368.5	347.6	337.3	337.3
37.5°	2279.3	2055.6	1464.3	976.2	677.1	494.2	417.1	369.4	325.1	310.4	311.3
40°	2606.2	2288.0	1542.4	931.2	618.2	477.7	403.2	352.9	312.2	302.5	299.1
41°	2642.5	2321.8	1620.5	930.3	590.5	465.6	402.4	351.1	307.0	305.2	304.3
42.5°	2545.4	2213.5	1445.3	845.3	554.1	445.6	400.6	349.4	301.7	306.1	305.2
45°	2656.5	2327.0	1406.2	774.2	490.7	412.7	379.8	339.9	298.2	290.4	291.3
47.5°	2307.9	1972.4	1210.3	673.6	434.4	377.2	351.1	318.2	289.6	285.2	285.2
50°	1838.0	1546.7	951.9	592.2	382.4	347.6	323.4	301.7	272.2	261.0	264.5
52.5°	1872.6	1566.6	965.0	551.4	347.6	317.3	301.7	274.8	240.1	219.4	222.8
55°	1029.9	892.9	564.5	423.1	322.5	294.7	276.6	248.8	210.7	187.2	189.9
57.5°	467.3	388.3	299.9	291.3	279.2	271.4	251.4	226.4	189.9	163.9	163.9
60°	417.9	342.4	268.0	243.6	249.6	250.5	229.7	205.5	169.9	139.5	140.4
62.5°	408.4	333.8	260.1	232.3	237.5	237.5	217.6	193.3	161.2	130.1	130.1
65°	406.7	330.3	261.0	228.9	232.3	233.2	213.3	193.3	171.7	149.1	150.8
67.5°	430.8	349.4	269.6	226.4	229.7	229.7	213.3	198.5	185.5	171.7	173.5
70°	417.9	343.3	268.0	226.4	224.5	224.5	212.4	199.5	192.4	180.3	181.2
72.5°	423.1	353.8	273.2	224.5	217.6	216.0	208.0	200.3	194.3	188.1	189.1
75°	415.2	350.2	264.5	216.0	207.1	203.7	198.5	196.8	197.6	195.1	193.3
77.5°	403.2	344.2	258.4	207.1	197.6	189.9	186.4	187.2	190.7	188.1	185.5
80°	401.5	345.0	255.7	201.9	185.5	172.6	168.3	169.9	170.8	165.6	160.3
82.5°	396.2	338.1	243.6	188.1	167.4	150.8	147.4	149.9	150.8	145.6	140.4
85°	426.5	356.4	240.1	175.1	151.8	134.3	128.3	129.1	123.1	115.3	110.1
87.5°	438.7	359.9	226.4	155.1	136.2	121.5	113.5	108.3	98.9	85.9	82.4
90°	417.1	341.5	203.7	133.5	119.7	108.3	98.9	91.8	79.8	66.7	62.4
92.5°	404.0	327.7	187.2	119.7	104.9	95.4	86.6	76.3	64.1	49.4	46.8
95°	396.2	322.5	176.8	106.7	93.7	84.1	75.5	65.8	53.8	42.5	40.8
97.5°	345.0	279.2	156.0	95.4	82.4	73.8	65.8	56.4	45.0	36.4	34.7
100°	320.8	260.1	144.7	85.9	72.9	65.0	58.1	50.2	40.8	34.7	33.9
102.5°	299.9	242.0	131.8	77.2	65.0	57.2	51.2	44.2	37.3	32.1	33.0
105°	284.4	230.7	126.7	71.1	58.1	52.0	45.0	39.9	33.0	29.5	29.5
107.5°	252.3	204.6	111.8	64.1	52.9	46.8	41.6	36.4	31.3	28.7	29.5



REPORT NUMBER: P266501

CATALOG NUMBER: UTLD-AF24-90-D-U-SL3-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	233.2	189.9	106.7	61.5	50.2	43.4	38.2	33.0	27.8	27.8	27.8
112.5°	207.1	170.8	98.9	58.1	46.8	40.8	35.6	29.5	24.3	25.2	26.1
115°	198.5	164.7	95.4	55.4	45.0	39.0	33.0	27.8	21.6	23.4	24.3
117.5°	183.0	152.6	92.7	55.4	43.4	36.4	31.3	26.1	20.8	22.5	22.5
120°	177.8	149.9	92.7	54.6	41.6	34.7	29.5	22.5	19.0	20.8	20.8
122.5°	165.6	140.4	88.5	53.8	39.9	33.0	28.7	19.0	16.4	18.2	18.2
125°	142.2	122.3	79.8	50.2	38.2	33.0	27.8	15.6	15.6	17.3	17.3
127.5°	124.0	107.4	72.9	49.4	39.0	34.7	26.1	13.0	13.8	15.6	15.6
130°	117.9	104.9	75.5	53.8	42.5	36.4	19.0	12.1	13.0	14.7	15.6
132.5°	111.8	101.5	77.2	58.1	45.0	35.6	15.6	11.3	12.1	13.8	13.8
135°	99.7	91.8	72.0	55.4	42.5	28.7	11.3	9.5	11.3	13.0	13.0
137.5°	87.6	81.4	65.8	51.2	39.0	22.5	7.8	8.7	9.5	10.4	10.4
140°	72.0	66.7	54.6	41.6	28.7	12.1	5.2	6.9	7.8	8.7	8.7
142.5°	52.0	48.6	39.0	27.8	16.4	4.3	3.5	5.2	6.1	6.9	6.9
145°	34.7	32.1	25.2	17.3	6.1	2.6	1.7	3.5	5.2	5.2	6.1
147.5°	20.8	19.9	14.7	7.8	2.6	1.7	1.7	2.6	3.5	4.3	4.3
150°	10.4	10.4	6.9	2.6	1.7	0.9	0.9	0.9	1.7	2.6	2.6
152.5°	2.6	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.9	0.9	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)