

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: P266515

Luminaire Tested: **UTLD-AF24-90-D-U-T3-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-15)
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-T3-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1180mA 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: 6366.9 lumens
Efficiency: N/A
Efficacy: 67.7 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

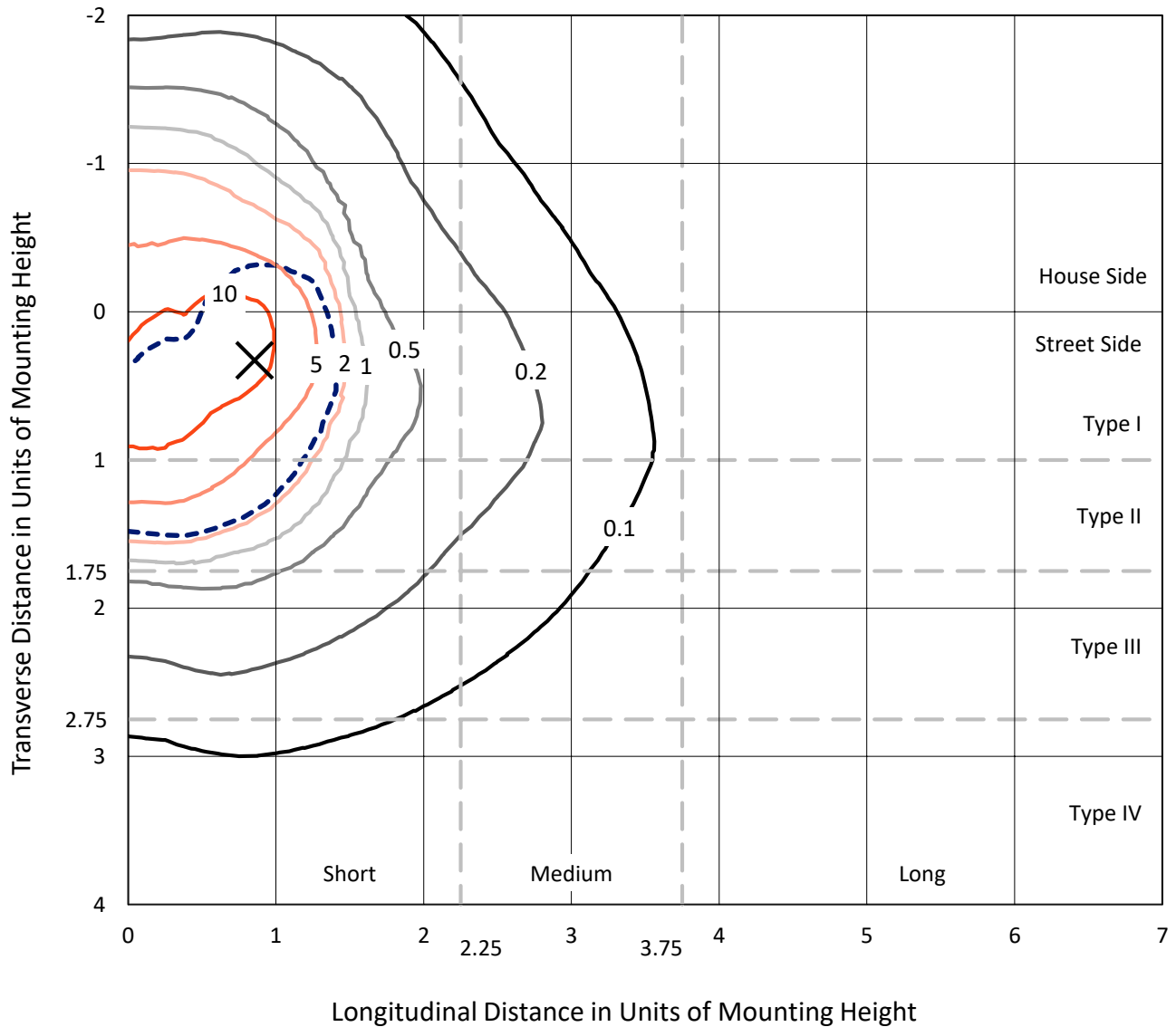


REPORT NUMBER: P266515

CATALOG NUMBER: UTLD-AF24-90-D-U-T3-A-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

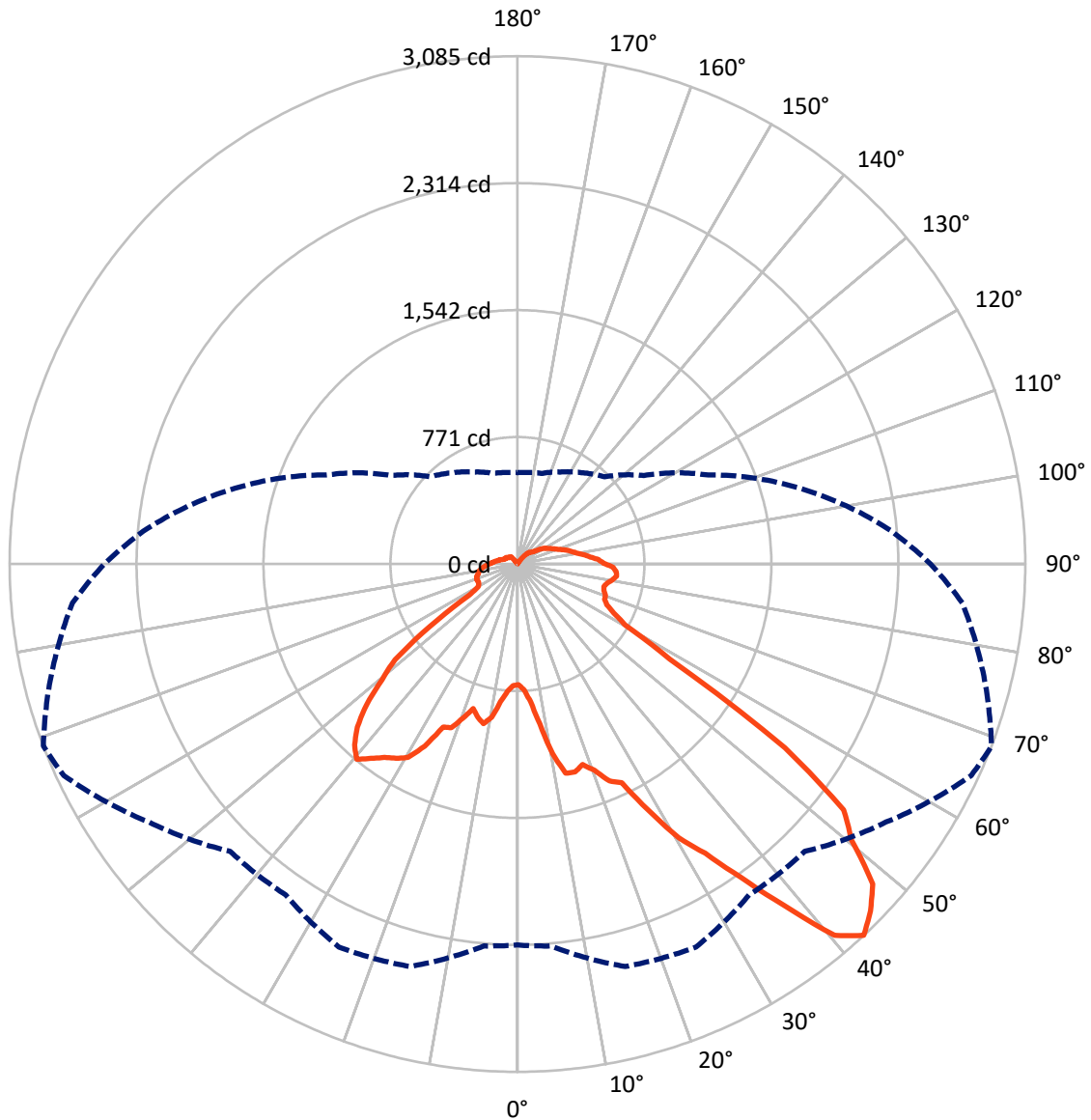


Based on 10 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P266515

CATALOG NUMBER: UTLD-AF24-90-D-U-T3-A-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 42.5-Deg Vertical



REPORT NUMBER: P266515

CATALOG NUMBER: UTLD-AF24-90-D-U-T3-A-7027

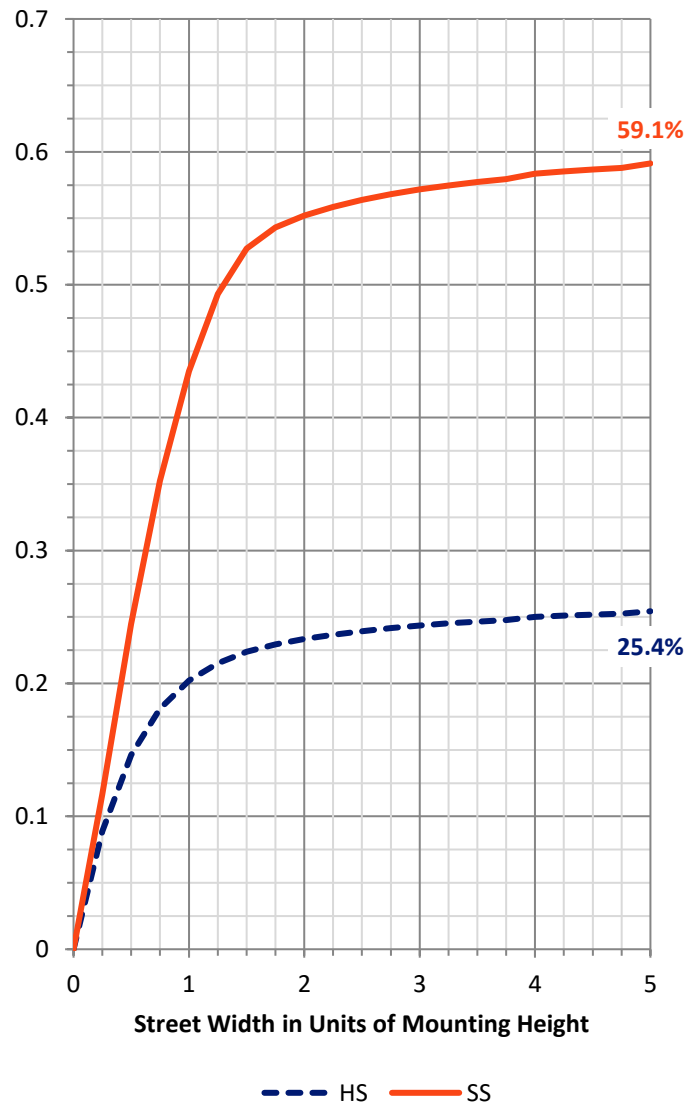
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1677.6	202.2	1879.7
	% Fixture	26.3	3.2	29.5
Street Side	Lumens	3887.3	599.8	4487.2
	% Fixture	61.1	9.4	70.5
Total	Lumens	5564.9	802.0	6366.9
	% Fixture	87.4	12.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	1.3
10°-20°	306.3	4.8
20°-30°	626.4	9.8
30°-40°	1053.7	16.5
40°-50°	1394.8	21.9
50°-60°	1005.8	15.8
60°-70°	395.1	6.2
70°-80°	356.0	5.6
80°-90°	347.0	5.4
90°-100°	292.6	4.6
100°-110°	208.0	3.3
110°-120°	140.2	2.2
120°-130°	91.7	1.4
130°-140°	54.9	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°	5564.9	87.4
0°-180°	6366.9	100.0

Coefficient of Utilization



REPORT NUMBER: P266515

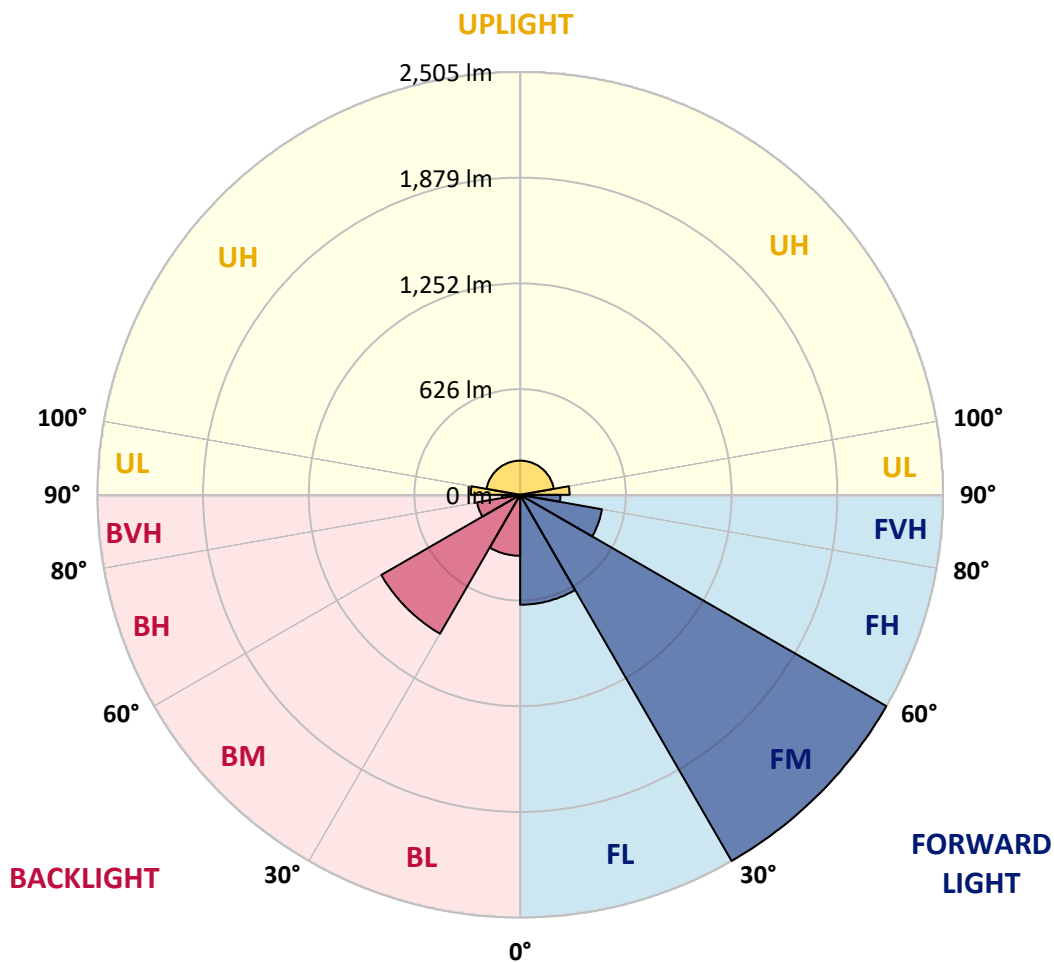
CATALOG NUMBER: UTLD-AF24-90-D-U-T3-A-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	651.2	10.2			
FM	(30°-60°)	2504.7	39.3			
FH	(60°-80°)	492.3	7.7			G0/660
FVH	(80°-90°)	239.1	3.8			G3/500
BL	(0°-30°)	361.3	5.7	B1/500		
BM	(30°-60°)	949.6	14.9	B1/1000		
BH	(60°-80°)	258.8	4.1	B1/500		G1/500
BVH	(80°-90°)	107.9	1.7			G2/225
UL	(90°-100°)	292.6	4.6		U3/500	
UH	(100°-180°)	202.2	3.2		U3/500	

BUG Rating: B1-U4-G3

Type II Short





REPORT NUMBER: P266515

CATALOG NUMBER: UTLD-AF24-90-D-U-T3-A-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6
2.5°	780.3	776.0	774.2	774.2	771.6	770.7	772.5	769.8	765.5	764.6	759.4
5°	835.0	833.2	832.3	839.2	845.3	847.0	845.3	845.3	840.2	840.2	823.7
7.5°	922.5	919.9	926.8	944.2	950.1	968.5	990.1	977.0	980.6	971.0	939.7
10°	1023.9	1019.5	1051.6	1075.1	1128.8	1151.4	1179.1	1176.5	1171.3	1154.9	1102.8
12.5°	1115.9	1113.2	1154.9	1239.8	1311.7	1384.6	1390.7	1330.7	1304.0	1245.1	1180.0
15°	1230.3	1232.8	1296.2	1416.6	1523.3	1552.8	1479.1	1361.2	1310.8	1250.3	1154.0
17.5°	1414.9	1423.6	1531.2	1668.2	1739.2	1620.5	1462.6	1327.3	1279.6	1213.8	1121.1
20°	1522.4	1527.7	1675.0	1860.6	1881.4	1689.0	1525.1	1379.3	1337.8	1285.7	1209.5
22.5°	1586.5	1605.7	1774.7	2001.9	1989.7	1848.4	1621.4	1483.5	1431.4	1360.4	1298.0
25°	1689.7	1703.6	1865.8	2085.1	2031.3	1900.5	1707.0	1523.3	1472.1	1420.1	1357.7
27.5°	1829.4	1842.3	2024.4	2151.0	2094.7	1969.9	1835.3	1717.5	1690.6	1681.9	1655.0
30°	1903.9	1912.6	2117.1	2223.8	2127.5	2069.4	2032.2	1937.7	1929.9	1912.6	1851.0
32.5°	1946.4	1979.3	2216.8	2278.5	2152.8	2145.8	2168.4	2110.3	2094.7	2065.2	1994.1
35°	1984.5	2001.1	2224.7	2318.3	2193.5	2190.0	2345.3	2372.1	2337.4	2276.8	2106.7
37.5°	2278.5	2286.2	2439.6	2406.7	2247.2	2266.3	2522.1	2661.7	2630.4	2555.0	2438.0
40°	2438.0	2451.8	2594.0	2525.6	2360.8	2382.5	2649.6	2939.1	2966.8	2964.2	2861.9
42.5°	2314.0	2328.8	2530.7	2567.1	2453.6	2468.4	2732.7	3040.6	3084.7	2948.6	2712.8
45°	2718.0	2729.3	2842.9	2576.7	2390.3	2446.7	2667.7	2966.8	3006.6	2966.8	2764.9
47.5°	2717.2	2703.3	2797.9	2603.6	2386.0	2347.8	2526.5	2825.4	2904.4	2813.4	2594.0
50°	2388.6	2387.7	2621.0	2509.1	2339.1	2250.8	2371.3	2607.9	2627.0	2520.4	2226.4
52.5°	2086.0	2084.2	2353.9	2296.6	2185.7	2099.0	2173.5	2409.3	2482.1	2388.6	2143.1
55°	1818.1	1892.5	2129.3	2007.1	1961.1	1875.3	1949.9	2007.9	1970.6	1710.6	1154.0
57.5°	1101.1	1183.4	1492.1	1580.5	1590.9	1529.4	1360.4	1161.8	1090.7	871.4	520.2
60°	513.2	533.2	783.0	952.8	1162.6	1063.0	860.0	749.0	749.0	658.1	451.7
62.5°	361.6	375.4	514.1	614.7	696.1	686.7	610.4	625.9	657.2	616.4	435.1
65°	339.9	348.5	457.7	488.0	519.3	525.4	515.0	562.7	595.7	590.5	441.2
67.5°	315.6	326.9	417.9	437.8	462.1	473.3	481.2	536.6	571.3	590.5	458.7
70°	287.0	299.9	385.8	413.6	436.9	462.9	472.5	532.3	567.9	587.0	464.8
72.5°	260.1	271.4	343.3	377.9	419.6	450.1	488.0	524.5	548.9	568.7	468.1
75°	234.1	247.2	307.8	347.6	396.2	453.5	499.4	526.2	542.8	558.3	463.9
77.5°	216.8	230.7	278.4	324.3	382.4	461.2	513.2	548.0	557.5	560.1	458.7
80°	201.1	216.8	267.1	315.6	378.8	464.8	529.7	571.3	584.3	590.5	488.0
82.5°	212.4	226.4	269.6	328.6	390.1	463.9	525.4	591.3	606.0	602.6	497.7
85°	240.1	251.4	304.3	359.9	407.6	456.0	509.8	581.7	602.6	620.8	527.1
87.5°	292.2	297.3	335.5	386.7	425.6	441.2	495.1	562.7	581.7	587.9	513.2
90°	319.9	325.1	370.2	412.7	424.8	430.0	441.2	508.9	522.9	547.1	490.7
92.5°	352.0	352.0	398.8	424.0	424.0	402.4	410.0	470.8	494.2	508.0	456.0
95°	383.1	381.5	407.6	422.3	399.7	369.4	382.4	430.0	444.8	459.6	424.0
97.5°	392.7	391.9	407.6	398.8	361.6	332.9	349.4	390.1	405.8	421.3	385.0
100°	382.4	377.9	382.4	363.3	328.6	307.0	316.5	350.2	366.8	379.8	346.7
102.5°	359.9	357.2	359.0	339.9	303.4	277.4	290.4	325.9	338.1	348.5	319.1
105°	349.4	345.0	337.3	309.6	274.0	255.7	267.1	302.5	313.9	334.7	310.4
107.5°	297.3	293.9	287.8	273.2	254.8	241.0	250.5	275.7	282.6	293.0	270.5
110°	256.6	254.8	253.1	249.6	238.4	228.9	234.1	247.9	256.6	264.5	242.0



REPORT NUMBER: P266515

CATALOG NUMBER: UTLD-AF24-90-D-U-T3-A-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
112.5°	247.9	245.3	243.6	237.5	222.8	212.4	216.0	231.6	236.8	239.3	215.1
115°	236.8	234.1	224.5	216.0	205.5	200.3	201.1	214.2	217.6	219.4	204.6
117.5°	209.8	207.1	201.1	197.6	191.6	189.1	193.3	200.3	201.1	201.9	189.1
120°	194.3	193.3	189.9	183.9	179.5	173.5	180.3	187.2	189.9	192.4	183.9
122.5°	176.8	175.1	171.7	163.9	163.9	160.3	159.4	163.9	164.7	171.7	167.4
125°	156.0	154.2	150.8	143.9	152.6	152.6	146.6	137.0	139.5	145.6	142.2
127.5°	139.5	137.9	134.3	131.0	143.1	147.4	137.0	119.7	121.5	123.1	120.6
130°	137.0	135.3	131.0	124.9	128.3	141.4	123.1	109.2	111.8	113.5	111.8
132.5°	134.3	133.5	127.5	119.7	115.3	127.5	106.7	103.1	105.8	108.3	106.7
135°	125.8	124.9	119.7	108.3	96.3	102.2	85.0	90.2	94.5	97.9	96.3
137.5°	111.8	111.0	106.7	95.4	79.0	73.8	65.0	77.2	80.7	85.0	85.0
140°	90.2	89.3	85.0	73.8	55.4	39.0	41.6	59.0	62.4	67.6	68.5
142.5°	65.8	64.1	59.8	49.4	31.3	13.0	23.4	35.6	39.9	45.0	48.6
145°	45.0	44.2	38.2	29.5	14.7	1.7	10.4	21.6	24.3	27.8	31.3
147.5°	28.7	28.7	24.3	16.4	4.3	1.7	2.6	11.3	13.8	17.3	19.9
150°	17.3	17.3	13.0	5.2	0.9	0.9	0.9	1.7	4.3	7.8	10.4
152.5°	4.3	4.3	2.6	1.7	0.9	0.0	0.9	0.9	0.9	0.9	1.7
155°	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.9	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	0.0
160°	0.9	0.9	0.9	0.0	0.9	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: P266515

CATALOG NUMBER: UTLD-AF24-90-D-U-T3-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6
2.5°	756.9	751.7	744.8	735.3	725.7	716.0	706.5	701.3	698.8	697.1	696.1
5°	819.3	808.0	789.8	764.6	733.5	715.3	702.2	686.7	676.2	672.8	670.1
7.5°	929.3	911.2	874.8	821.1	783.0	729.2	683.3	653.6	632.0	619.9	619.9
10°	1076.8	1050.7	987.4	913.8	815.8	721.2	650.3	596.5	571.3	560.9	558.3
12.5°	1141.8	1116.8	1042.2	956.2	852.2	742.1	652.0	587.9	557.5	545.4	547.1
15°	1108.9	1074.3	1010.1	929.3	847.9	778.6	703.2	623.3	571.3	557.5	561.8
17.5°	1075.9	1040.3	971.8	882.6	802.8	756.9	704.0	650.3	600.8	580.8	577.4
20°	1172.2	1146.1	1053.4	951.9	832.3	716.0	678.8	654.5	638.1	639.0	631.1
22.5°	1264.0	1228.5	1143.5	1024.7	895.6	794.1	733.5	701.3	683.3	690.9	691.9
25°	1325.5	1298.8	1173.0	1030.8	923.4	847.9	760.3	715.3	684.9	684.9	681.5
27.5°	1638.6	1571.9	1372.4	1154.9	994.5	869.6	763.7	711.7	673.6	662.4	664.0
30°	1802.4	1736.6	1508.6	1244.2	1075.9	921.7	773.4	692.8	683.3	675.3	678.0
32.5°	1942.9	1845.7	1576.2	1267.6	1061.2	929.3	794.1	697.1	651.1	643.2	646.8
35°	2012.3	1903.9	1630.0	1288.3	1068.2	896.5	768.9	678.8	649.4	641.6	644.2
37.5°	2332.2	2170.0	1715.0	1319.6	1066.4	853.1	735.3	662.4	607.8	584.3	584.3
40°	2699.8	2461.4	1863.2	1317.9	1000.5	815.8	698.0	630.3	587.0	568.7	567.9
42.5°	2509.1	2282.0	1776.5	1278.7	936.4	748.2	677.1	616.4	569.6	557.5	554.9
45°	2588.8	2346.1	1714.1	1169.6	840.2	694.5	627.6	585.2	531.4	503.7	502.8
47.5°	2335.7	2140.7	1586.5	1030.8	756.9	610.4	568.7	541.0	507.3	483.7	481.2
50°	2026.1	1829.4	1335.2	913.8	645.1	541.0	512.5	498.5	464.8	437.8	439.6
52.5°	1935.9	1697.5	1163.6	797.7	554.9	471.6	457.7	442.1	408.4	377.2	380.6
55°	959.7	795.0	707.4	619.9	465.6	410.0	404.0	394.4	360.7	333.8	334.7
57.5°	447.4	385.8	338.1	359.9	351.1	356.4	353.8	347.6	315.6	277.4	274.8
60°	400.6	343.3	287.0	272.2	288.7	311.3	309.6	290.4	249.6	204.6	199.5
62.5°	386.7	328.6	278.4	256.6	263.6	278.4	268.0	243.6	210.7	169.2	168.3
65°	393.5	332.1	277.4	250.5	255.7	261.9	247.2	229.7	209.8	181.2	181.2
67.5°	408.4	345.0	283.5	247.9	250.5	256.6	242.7	230.7	220.3	201.1	201.1
70°	412.7	351.1	287.0	248.8	246.2	251.4	242.0	230.7	224.5	208.9	208.0
72.5°	414.4	354.7	285.2	244.5	238.4	242.7	235.9	230.7	228.0	216.0	214.2
75°	406.7	351.1	276.6	234.9	228.9	230.7	228.9	228.0	231.6	223.7	221.2
77.5°	397.1	345.9	269.6	224.5	217.6	218.5	216.8	219.4	222.8	217.6	213.3
80°	417.1	360.7	270.5	216.8	203.7	199.5	200.3	202.8	207.1	195.9	189.9
82.5°	424.0	361.6	258.4	199.5	183.0	176.8	178.7	185.5	189.1	178.7	172.6
85°	450.1	377.9	249.6	183.9	164.7	158.7	160.3	164.7	163.0	150.8	145.6
87.5°	439.6	366.8	234.1	165.6	149.9	144.7	145.6	147.4	141.4	125.8	121.5
90°	424.8	353.8	216.8	145.6	132.7	131.0	129.1	126.7	116.2	99.7	95.4
92.5°	397.9	330.3	201.1	131.8	117.9	117.0	114.4	109.2	99.7	83.3	79.0
95°	375.4	309.6	186.4	120.6	105.8	102.2	102.2	97.0	86.6	72.9	71.1
97.5°	338.1	281.8	171.7	111.0	94.5	91.1	90.2	86.6	79.0	68.5	67.6
100°	306.1	254.8	156.0	100.6	85.0	81.4	79.8	78.1	72.0	65.8	65.8
102.5°	283.5	235.9	145.6	91.8	76.3	72.9	72.9	71.1	67.6	63.3	63.3
105°	277.4	231.6	141.4	84.1	67.6	65.8	66.7	66.7	64.1	61.5	61.5
107.5°	241.0	199.5	121.5	74.6	61.5	59.8	60.6	61.5	60.6	59.8	59.8
110°	215.1	181.2	112.6	70.2	58.1	55.4	55.4	55.4	55.4	56.4	57.2



REPORT NUMBER: P266515

CATALOG NUMBER: UTLD-AF24-90-D-U-T3-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	192.4	161.2	103.1	66.7	54.6	52.0	51.2	50.2	49.4	52.9	52.9
115°	183.9	156.9	100.6	65.0	52.0	49.4	46.8	45.0	43.4	46.0	46.8
117.5°	170.8	147.4	97.9	65.0	51.2	46.8	44.2	41.6	39.0	41.6	41.6
120°	167.4	146.6	99.7	65.8	49.4	43.4	40.8	37.3	35.6	38.2	39.0
122.5°	154.2	137.0	94.5	62.4	47.7	41.6	39.0	32.1	32.1	33.9	34.7
125°	131.0	116.2	81.4	56.4	45.0	41.6	38.2	28.7	29.5	31.3	31.3
127.5°	111.8	100.6	74.6	54.6	46.0	42.5	35.6	26.9	28.7	31.3	31.3
130°	105.8	96.3	75.5	57.2	47.7	43.4	29.5	23.4	27.8	30.4	30.4
132.5°	101.5	93.7	75.5	59.8	49.4	39.9	23.4	20.8	23.4	25.2	25.2
135°	91.8	86.6	72.0	57.2	45.0	31.3	19.0	18.2	21.6	23.4	23.4
137.5°	82.4	77.2	65.8	52.9	39.9	25.2	13.8	16.4	18.2	19.9	19.9
140°	67.6	64.1	54.6	43.4	29.5	13.8	10.4	13.0	15.6	17.3	17.3
142.5°	47.7	46.0	38.2	27.8	16.4	5.2	6.9	9.5	11.3	13.0	13.0
145°	31.3	29.5	24.3	17.3	6.9	1.7	4.3	6.1	8.7	9.5	9.5
147.5°	19.9	19.0	14.7	8.7	2.6	1.7	1.7	4.3	6.9	7.8	7.8
150°	9.5	8.7	6.1	2.6	1.7	0.9	0.9	1.7	4.3	5.2	5.2
152.5°	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.9	0.9	1.7	1.7
155°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.9	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	0.9	0.9	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)