

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: P266478

Luminaire Tested: **UTLD-AF24-80-D-U-T2U-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-33)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-80-D-U-T2U-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6401.2 lumens
Efficiency: N/A
Efficacy: 77.1 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 - U3 - G2

Input Watts (W): 83
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

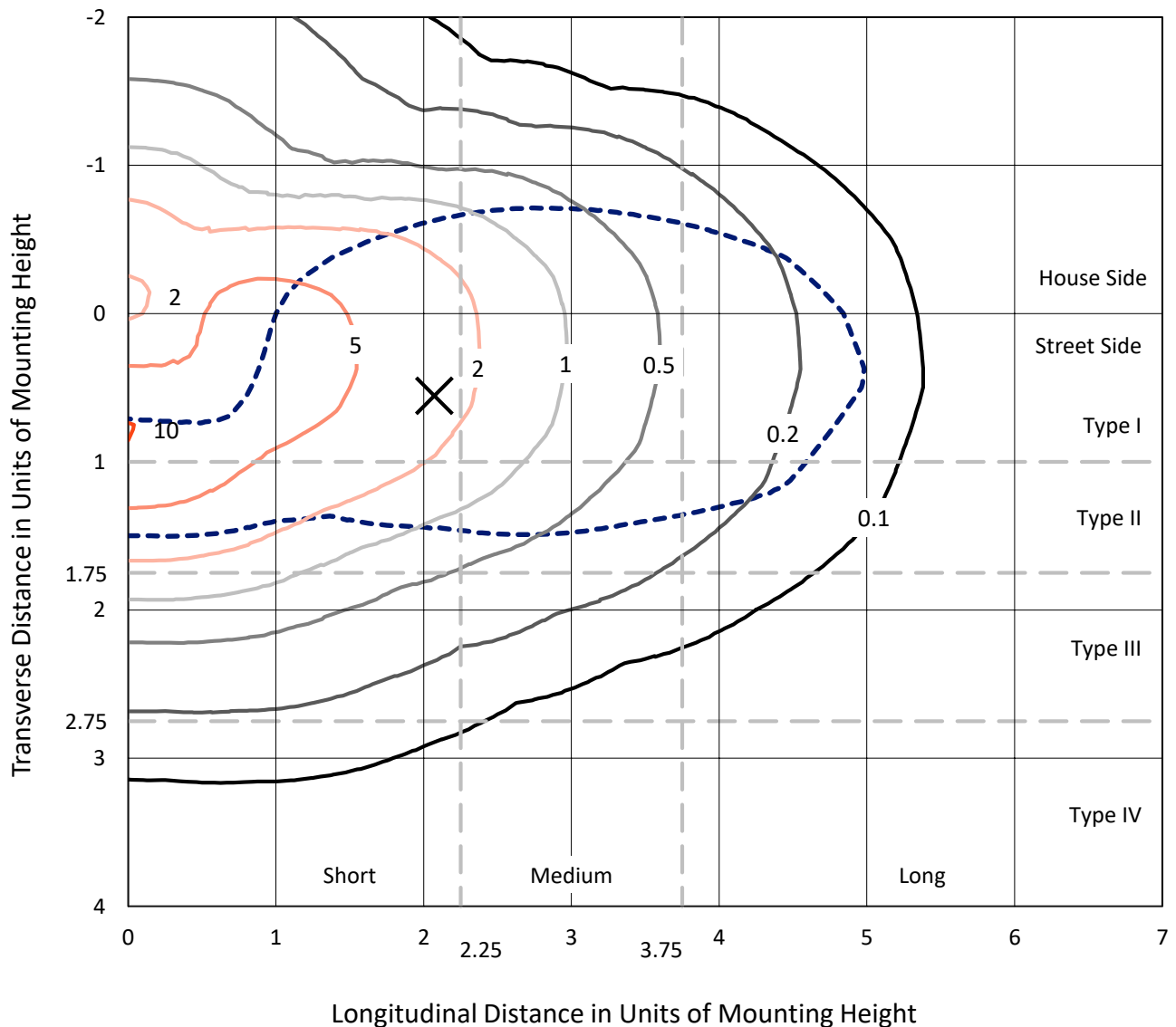


REPORT NUMBER: P266478

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-TL-7027

Iso-Footcandle Lines of Horizontal Illumination

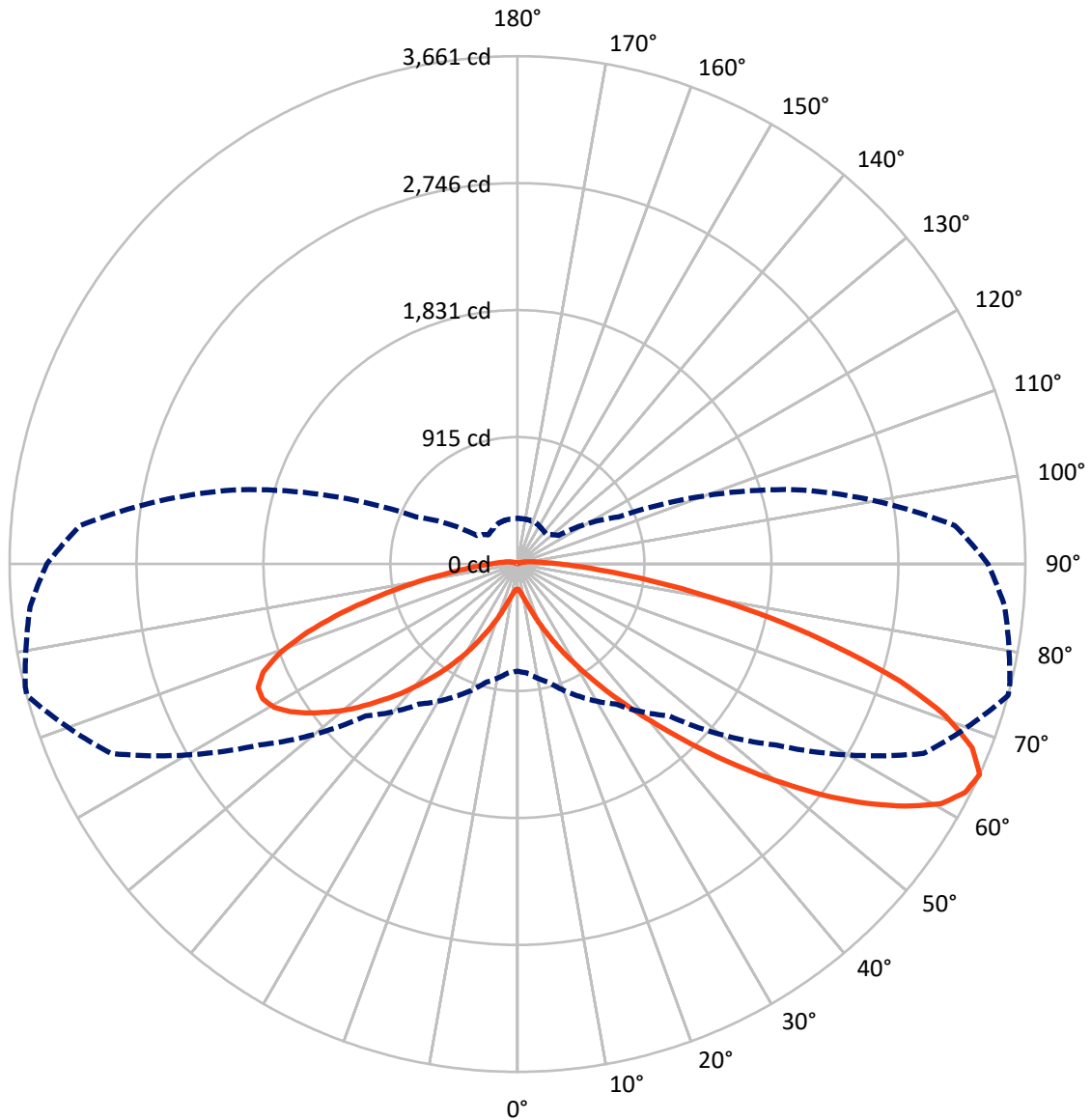
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P266478
CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-TL-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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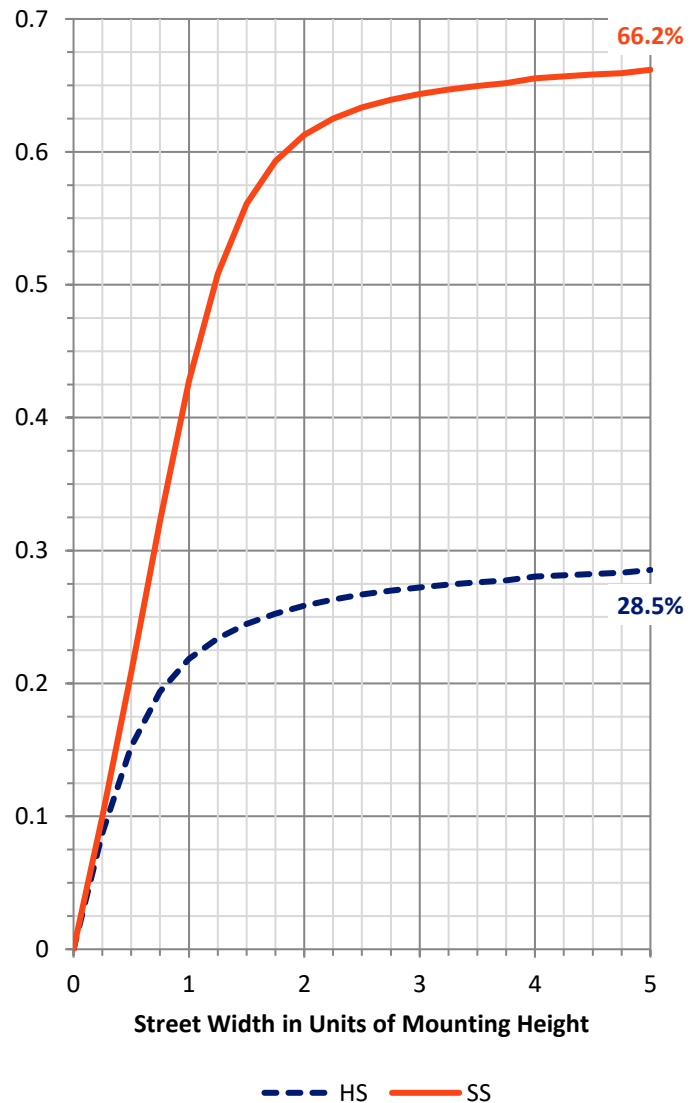
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1890.0	113.3	2003.4
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	4295.9	102.0	4397.8
	% Fixture	67.1	1.6	68.7
Total	Lumens	6185.9	215.3	6401.2
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.0	0.3
10°-20°	92.6	1.4
20°-30°	269.9	4.2
30°-40°	605.5	9.5
40°-50°	1077.5	16.8
50°-60°	1464.2	22.9
60°-70°	1421.9	22.2
70°-80°	896.3	14.0
80°-90°	338.0	5.3
90°-100°	115.1	1.8
100°-110°	52.1	0.8
110°-120°	25.1	0.4
120°-130°	13.2	0.2
130°-140°	6.9	0.1
140°-150°	2.5	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6185.9	96.6
0°-180°	6401.2	100.0

Coefficient of Utilization



REPORT NUMBER: P266478

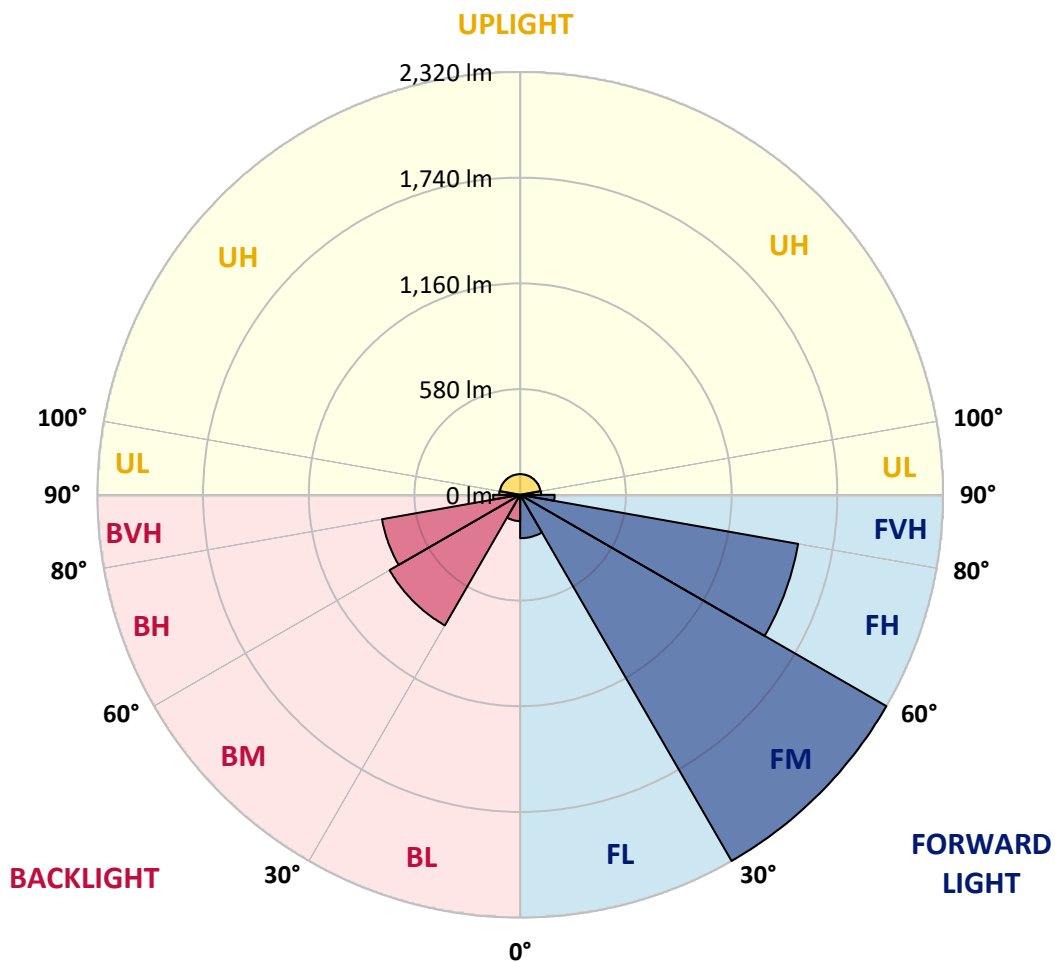
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	238.4	3.7			
FM (30°-60°)	2319.9	36.2			
FH (60°-80°)	1548.5	24.2			G1/1800
FVH (80°-90°)	189.2	3.0			G2/225
BL (0°-30°)	144.2	2.3	B1/500		
BM (30°-60°)	827.3	12.9	B1/1000		
BH (60°-80°)	769.7	12.0	B2/1000		G2/1000
BVH (80°-90°)	148.8	2.3			G2/225
UL (90°-100°)	115.1	1.8		U3/500	
UH (100°-180°)	113.3	1.8		U3/500	

BUG Rating: B2-U3-G2

Type II Short





REPORT NUMBER: P266478

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-TL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	181.9	181.9	181.9	181.9	181.9	181.9	181.9	181.9	181.9	181.9	181.9
2.5°	198.0	197.2	197.2	197.2	195.7	194.0	191.6	190.0	187.6	186.8	185.9
5°	218.8	218.8	218.1	217.3	215.7	211.6	207.7	204.5	200.4	199.7	196.4
7.5°	251.7	250.9	250.1	246.1	243.7	238.1	231.8	226.9	219.6	219.6	214.9
10°	295.1	293.4	291.1	287.0	278.1	271.0	263.7	254.8	247.8	246.9	239.7
12.5°	346.3	346.3	343.2	335.1	323.8	313.5	301.4	291.8	282.2	281.3	275.1
15°	416.9	417.7	407.2	395.3	379.3	363.2	348.0	339.1	327.9	330.2	321.5
17.5°	504.3	502.6	493.9	469.9	443.4	422.6	404.9	395.3	386.5	387.2	380.8
20°	614.1	612.5	597.3	565.3	521.8	490.7	469.9	463.3	458.6	456.2	449.7
22.5°	749.5	741.6	711.1	669.3	617.2	572.4	549.9	540.3	538.8	539.5	533.1
25°	901.1	897.9	859.4	792.8	725.6	667.8	633.3	631.7	634.2	630.2	630.2
27.5°	1085.5	1076.7	1031.8	939.5	843.4	774.3	734.4	730.3	741.6	738.3	733.6
30°	1301.1	1287.5	1226.5	1108.8	985.4	893.0	846.7	846.7	858.6	858.6	857.1
32.5°	1526.4	1524.1	1429.5	1291.6	1145.6	1023.8	983.6	977.3	989.3	995.7	987.6
35°	1779.7	1761.2	1652.3	1495.9	1307.6	1173.6	1124.0	1132.9	1142.5	1143.3	1130.3
37.5°	2037.8	2019.5	1894.3	1701.2	1481.6	1337.1	1286.0	1292.3	1307.6	1307.6	1290.8
40°	2259.1	2239.1	2116.4	1915.2	1673.9	1519.3	1464.6	1483.1	1493.5	1497.6	1470.3
42.5°	2433.9	2419.4	2309.6	2104.4	1859.1	1702.0	1666.7	1697.2	1707.6	1715.7	1676.3
45°	2531.8	2519.7	2443.5	2258.3	2014.7	1884.7	1891.2	1928.0	1948.2	1939.4	1896.9
47.5°	2547.0	2537.4	2494.9	2353.7	2157.3	2060.4	2121.3	2176.6	2207.0	2207.9	2135.7
50°	2452.4	2456.3	2457.1	2376.1	2237.5	2203.1	2336.1	2460.4	2483.6	2470.8	2385.8
52.5°	2268.8	2266.3	2312.9	2312.9	2252.0	2291.2	2516.5	2738.6	2770.6	2767.4	2649.6
55°	1996.3	1998.5	2085.1	2153.3	2175.8	2309.6	2664.1	2990.3	3043.2	3038.3	2908.5
57.5°	1657.2	1680.3	1787.0	1917.6	2019.5	2231.1	2732.1	3206.8	3293.4	3294.2	3137.1
60°	1327.5	1351.6	1475.9	1643.4	1791.0	2079.5	2686.4	3319.0	3509.0	3500.2	3333.4
62.5°	1014.1	1039.0	1158.5	1349.3	1520.8	1837.5	2531.0	3342.2	3623.7	3618.1	3474.6
65°	772.1	788.1	884.2	1051.8	1232.1	1548.0	2275.1	3231.7	3661.3	3657.3	3526.7
67.5°	577.3	584.4	675.9	811.3	967.7	1252.2	1921.7	2965.5	3536.3	3540.3	3467.3
70°	444.1	449.0	515.4	633.3	749.5	978.9	1556.9	2581.4	3273.3	3283.8	3281.2
72.5°	352.8	360.0	413.0	498.6	582.8	741.6	1204.2	2088.4	2883.6	2905.3	2970.2
75°	291.1	299.0	339.1	402.4	463.3	564.3	875.5	1602.5	2370.5	2416.4	2560.6
77.5°	240.4	248.6	282.2	332.0	369.7	431.2	641.4	1185.0	1862.4	1881.6	2072.4
80°	197.2	204.5	234.8	273.4	300.7	336.8	467.4	832.2	1358.1	1382.1	1568.1
82.5°	157.2	163.5	191.6	222.9	245.2	270.2	346.3	570.1	945.9	963.6	1086.3
85°	121.0	127.5	151.5	178.8	198.0	218.1	265.4	396.8	626.1	647.0	736.8
87.5°	90.5	96.2	116.2	139.4	159.4	176.3	204.5	274.3	417.7	435.3	477.8
90°	66.6	70.5	88.2	105.8	124.2	142.7	160.3	200.4	278.1	285.4	315.0
92.5°	49.6	52.1	66.6	81.7	99.4	115.4	126.8	147.5	195.7	196.4	217.3
95°	36.9	39.3	51.4	64.0	79.4	94.6	104.3	114.7	143.5	146.0	158.7
97.5°	29.6	30.5	41.0	52.1	64.9	77.8	85.8	91.4	109.9	112.3	121.0
100°	24.9	25.6	34.5	44.0	55.3	66.6	72.1	74.6	86.5	89.0	95.4
102.5°	21.6	21.6	29.6	38.4	48.1	56.1	60.1	61.8	69.8	69.8	74.6
105°	19.3	19.3	25.6	33.6	41.7	48.9	51.4	51.4	54.4	55.3	57.8
107.5°	17.6	17.6	23.3	30.5	36.9	42.5	44.0	42.5	43.3	43.3	44.8
110°	16.0	16.0	20.0	27.3	32.9	36.9	37.6	36.1	33.6	33.6	35.3



REPORT NUMBER: P266478

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-TL-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	14.5	15.2	18.4	24.1	28.8	32.9	32.9	30.5	26.5	26.5	28.0
115°	13.7	13.7	16.9	21.6	25.6	28.8	28.8	25.6	21.6	20.8	22.5
117.5°	12.8	12.8	14.5	19.3	23.3	25.6	25.6	21.6	17.6	17.6	19.3
120°	12.0	12.0	13.7	17.6	20.8	23.3	22.5	19.3	15.2	15.2	16.9
122.5°	12.0	12.0	12.8	16.0	18.4	20.0	19.3	16.0	12.8	12.8	14.5
125°	11.1	11.1	12.0	14.5	16.9	18.4	16.9	13.7	12.0	12.0	12.8
127.5°	11.1	11.1	11.1	12.8	15.2	16.0	15.2	12.0	10.4	10.4	12.0
130°	10.4	10.4	11.1	12.0	13.7	14.5	12.8	10.4	9.6	9.6	11.1
132.5°	10.4	10.4	10.4	10.4	11.1	12.0	10.4	8.1	8.9	8.9	9.6
135°	9.6	9.6	9.6	9.6	10.4	10.4	8.9	7.2	8.1	8.1	8.9
137.5°	8.9	8.9	8.9	8.9	8.9	8.1	7.2	6.4	7.2	7.2	8.1
140°	8.1	8.1	8.1	7.2	6.4	6.4	5.6	4.9	5.6	5.6	6.4
142.5°	7.2	7.2	7.2	6.4	5.6	4.9	4.0	4.0	4.9	4.9	5.6
145°	6.4	6.4	5.6	4.9	4.0	3.2	2.4	3.2	4.0	4.0	4.9
147.5°	4.9	4.9	4.9	4.0	2.4	1.5	1.5	2.4	3.2	3.2	3.2
150°	4.0	4.0	4.0	3.2	1.5	0.8	0.8	1.5	1.5	1.5	2.4
152.5°	2.4	2.4	2.4	2.4	0.8	0.0	0.0	0.8	1.5	1.5	1.5
155°	1.5	1.5	1.5	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.8
160°	0.0	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.0
162.5°	0.0	0.0	0.0	0.8	0.8	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: P266478

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	181.9	181.9	181.9	181.9	181.9	181.9	181.9	181.9	181.9	181.9	181.9
2.5°	185.2	184.4	182.7	181.2	179.7	178.0	176.3	175.6	173.9	173.9	173.9
5°	194.8	192.3	189.3	185.9	182.7	180.4	178.0	175.6	173.9	173.2	172.4
7.5°	212.4	209.2	203.6	198.9	193.2	188.5	184.4	181.2	179.7	178.8	178.8
10°	236.6	232.5	225.2	215.7	209.2	201.9	195.7	191.6	188.5	187.6	186.8
12.5°	268.6	264.6	252.6	242.2	230.1	218.8	211.6	206.8	204.5	203.6	203.6
15°	314.2	309.5	290.2	272.5	253.3	239.7	230.1	226.1	226.9	229.2	226.9
17.5°	371.2	364.0	341.5	312.7	283.9	262.9	254.1	254.8	258.2	260.6	259.7
20°	441.7	431.2	400.0	359.1	319.8	291.8	283.0	283.9	287.7	295.1	294.3
22.5°	524.3	508.4	468.1	413.0	357.5	325.5	309.5	311.8	320.6	327.9	327.9
25°	614.9	600.4	543.6	469.9	400.9	353.6	333.5	336.8	349.5	357.5	360.0
27.5°	722.2	699.9	629.4	533.1	441.7	378.4	353.6	355.1	371.2	381.6	383.1
30°	837.0	810.5	722.2	596.5	477.8	397.6	365.6	368.8	386.5	398.5	400.9
32.5°	966.0	934.7	819.3	662.9	511.5	408.9	372.0	375.2	393.6	407.2	408.9
35°	1109.5	1063.9	923.5	723.9	534.0	413.0	372.0	376.0	393.6	407.2	409.6
37.5°	1255.4	1204.2	1025.3	782.5	547.5	409.6	366.4	371.2	387.2	400.0	402.4
40°	1425.4	1359.7	1136.7	830.6	552.4	400.9	356.7	362.3	376.0	386.5	388.0
42.5°	1619.5	1526.4	1253.9	871.4	545.1	389.7	347.1	353.6	364.8	372.0	372.7
45°	1820.7	1708.3	1367.7	903.4	534.8	376.0	337.6	344.7	354.3	356.0	357.5
47.5°	2037.8	1912.9	1491.9	922.7	516.3	361.6	330.2	337.6	344.0	343.2	344.0
50°	2278.5	2124.5	1618.6	930.7	495.4	349.5	324.6	332.7	337.6	333.5	333.5
52.5°	2513.3	2356.2	1734.1	934.0	472.1	338.3	320.6	330.2	332.7	328.7	328.7
55°	2763.5	2570.2	1849.5	925.2	449.0	329.5	319.1	329.5	331.0	325.5	325.5
57.5°	2994.3	2798.7	1953.8	911.5	427.4	321.5	316.7	328.7	330.2	325.5	326.3
60°	3206.8	2992.8	2034.8	889.1	404.1	313.5	315.0	328.7	330.2	327.2	328.7
62.5°	3336.7	3121.0	2077.2	853.7	381.6	306.2	312.7	327.2	330.2	327.9	329.5
65°	3392.8	3166.6	2071.5	803.3	360.0	297.3	307.8	323.8	327.9	327.9	329.5
67.5°	3350.3	3124.9	1989.7	738.3	339.9	288.6	301.4	317.6	323.1	324.6	327.2
70°	3192.3	2952.5	1825.4	656.7	318.3	279.1	293.4	308.7	315.0	318.3	319.8
72.5°	2877.2	2663.3	1592.2	574.8	295.8	266.9	281.3	295.8	303.1	307.0	307.0
75°	2477.3	2263.2	1310.7	488.1	275.1	253.3	266.9	279.1	287.0	291.1	289.4
77.5°	1993.0	1793.3	1018.1	400.0	252.6	237.3	250.1	260.6	266.9	270.2	266.2
80°	1476.8	1349.3	764.7	330.2	230.1	218.8	229.2	238.1	245.2	244.5	241.4
82.5°	1047.1	926.7	535.5	274.3	207.7	198.9	206.8	212.4	217.3	215.7	210.1
85°	697.4	618.9	378.4	223.7	184.4	177.1	181.9	185.2	187.6	183.7	179.7
87.5°	453.7	404.1	272.5	184.4	159.4	154.7	157.2	157.9	158.7	154.7	149.8
90°	296.6	275.8	202.8	152.4	137.1	133.8	133.8	130.7	131.5	126.8	121.9
92.5°	209.2	196.4	157.9	125.0	117.0	114.7	113.8	109.9	109.1	104.3	101.0
95°	156.3	150.7	127.5	105.8	99.4	98.6	96.9	93.1	89.8	85.0	83.4
97.5°	121.9	119.5	105.0	90.5	85.8	84.3	83.4	78.5	76.1	71.3	69.8
100°	96.9	96.9	88.2	77.8	73.8	72.9	72.1	67.4	64.9	60.1	59.3
102.5°	77.8	78.5	73.8	67.4	64.0	62.5	60.9	57.8	53.7	50.6	50.6
105°	60.9	62.5	60.9	57.0	55.3	53.7	52.1	48.9	44.8	41.7	41.7
107.5°	48.1	49.6	49.6	48.9	46.5	45.8	44.8	41.0	37.6	34.5	34.5
110°	36.9	39.3	41.0	41.0	41.0	39.3	37.6	35.3	31.4	28.8	28.8



REPORT NUMBER: P266478

CATALOG NUMBER: UTLD-AF24-80-D-U-T2U-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	29.6	31.4	33.6	34.5	34.5	34.5	32.9	28.8	25.6	24.1	24.9
115°	24.1	25.6	28.0	29.6	29.6	29.6	27.3	24.9	21.6	20.8	20.8
117.5°	20.0	21.6	23.3	25.6	25.6	25.6	24.1	20.8	17.6	17.6	17.6
120°	17.6	18.4	20.8	21.6	22.5	22.5	20.8	17.6	15.2	15.2	16.0
122.5°	15.2	16.0	17.6	19.3	20.0	19.3	17.6	14.5	12.8	13.7	13.7
125°	13.7	14.5	15.2	16.9	17.6	16.9	15.2	12.0	11.1	12.0	12.0
127.5°	12.8	12.8	13.7	14.5	15.2	14.5	12.8	10.4	9.6	11.1	11.1
130°	11.1	12.0	12.0	12.8	12.8	12.8	11.1	8.9	8.9	9.6	9.6
132.5°	10.4	10.4	10.4	11.1	11.1	10.4	8.9	7.2	8.1	8.9	8.9
135°	8.9	9.6	9.6	9.6	9.6	8.9	7.2	6.4	7.2	8.1	8.1
137.5°	8.1	8.1	8.1	8.1	8.1	7.2	6.4	5.6	6.4	6.4	6.4
140°	6.4	7.2	7.2	6.4	6.4	5.6	4.9	4.0	4.9	5.6	5.6
142.5°	5.6	5.6	5.6	5.6	4.9	4.0	3.2	3.2	4.0	4.0	4.0
145°	4.9	4.9	4.9	4.0	3.2	3.2	2.4	2.4	3.2	3.2	4.0
147.5°	3.2	3.2	3.2	3.2	2.4	2.4	1.5	1.5	2.4	2.4	2.4
150°	2.4	2.4	2.4	2.4	1.5	1.5	1.5	0.8	1.5	1.5	1.5
152.5°	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8
155°	0.8	0.8	1.5	1.5	0.8	0.8	0.8	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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)