

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: P266471

Luminaire Tested: **UTLD-AF24-80-D-U-SL3-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-32)
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-SL3-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6132.3 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U3 - G3

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

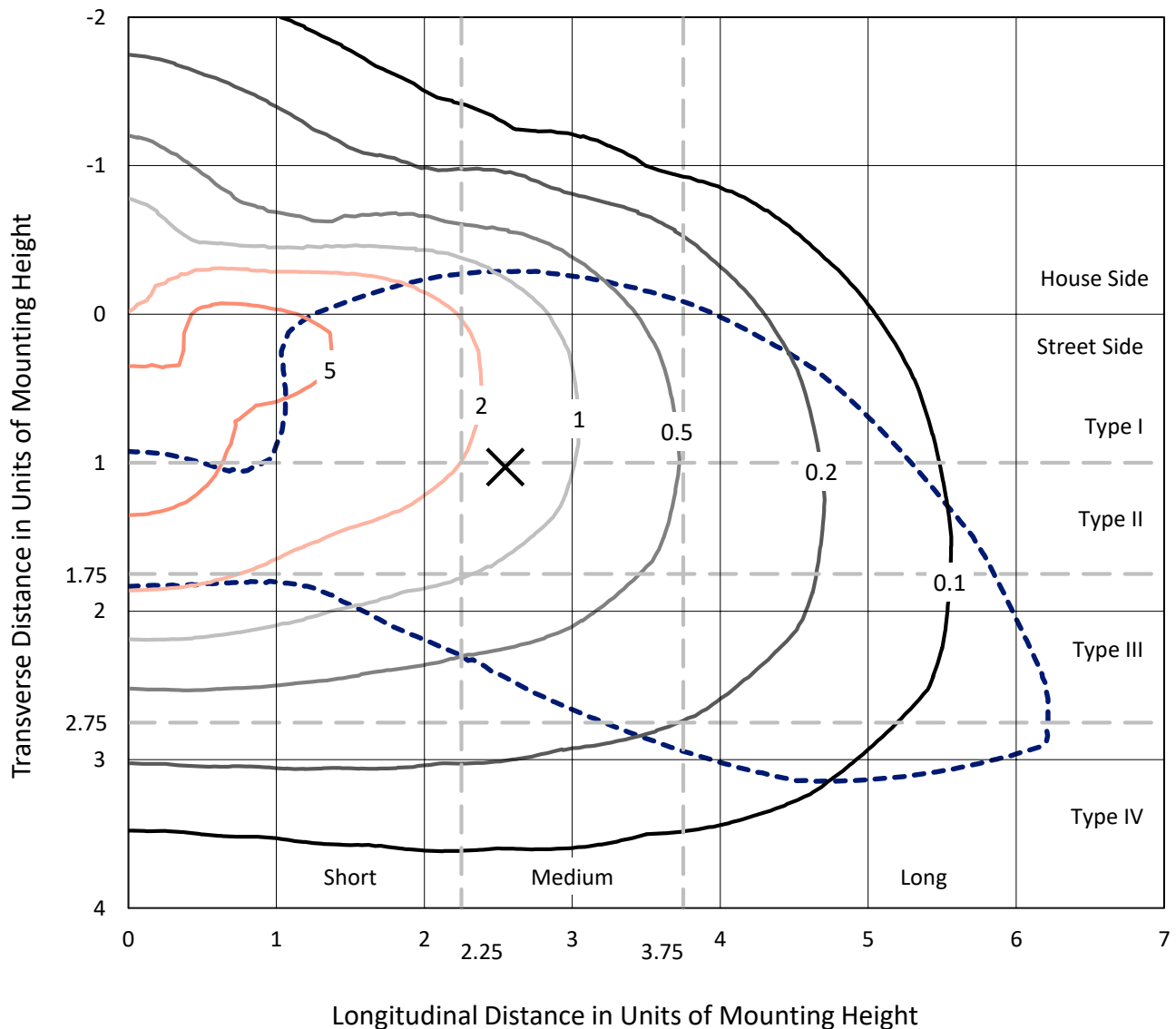


REPORT NUMBER: P266471

CATALOG NUMBER: UTLD-AF24-80-D-U-SL3-TL-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

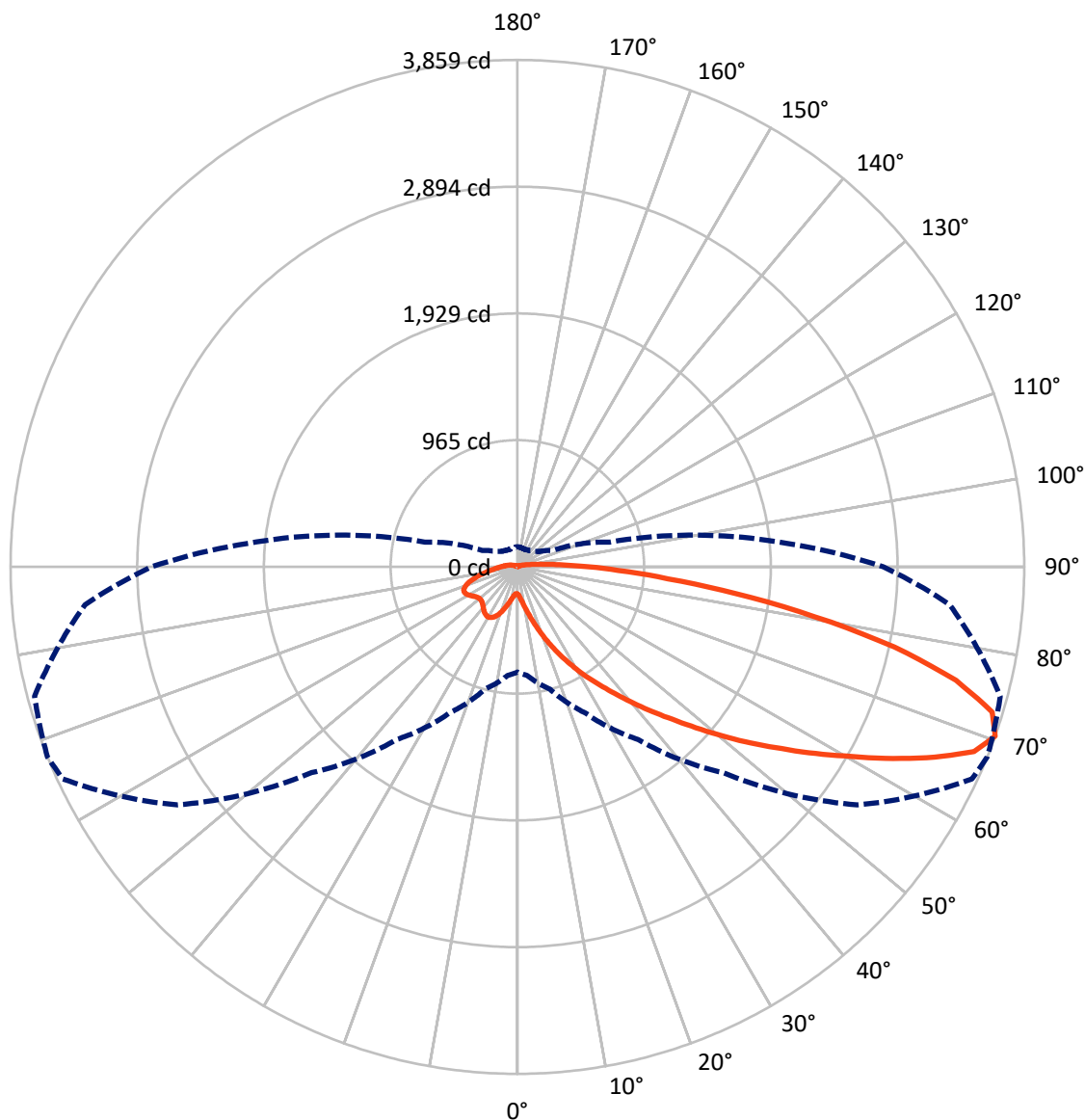


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P266471

CATALOG NUMBER: UTLD-AF24-80-D-U-SL3-TL-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P266471

CATALOG NUMBER: UTLD-AF24-80-D-U-SL3-TL-7027

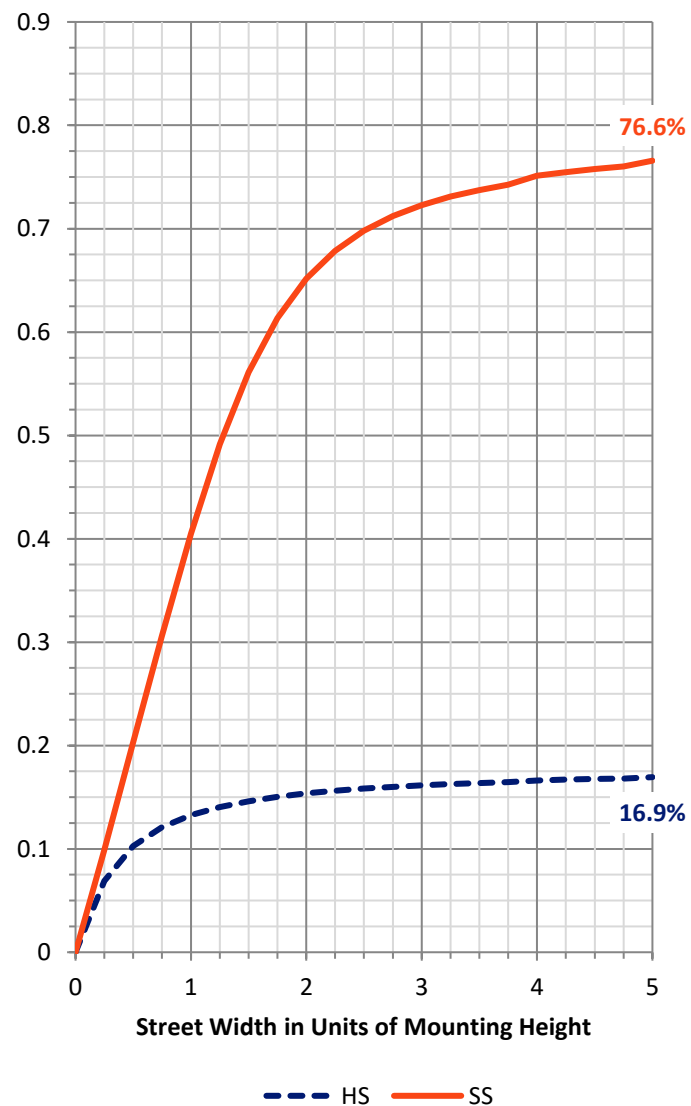
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1084.0	99.6	1183.5
	% Fixture	17.7	1.6	19.3
Street Side	Lumens	4812.4	136.4	4948.8
	% Fixture	78.5	2.2	80.7
Total	Lumens	5896.4	235.9	6132.3
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.4	0.4
10°-20°	97.3	1.6
20°-30°	246.2	4.0
30°-40°	477.1	7.8
40°-50°	804.4	13.1
50°-60°	1202.7	19.6
60°-70°	1458.3	23.8
70°-80°	1137.8	18.6
80°-90°	450.2	7.3
90°-100°	137.9	2.2
100°-110°	54.2	0.9
110°-120°	24.0	0.4
120°-130°	11.8	0.2
130°-140°	5.8	0.1
140°-150°	1.9	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5896.4	96.2
0°-180°	6132.3	100.0

Coefficient of Utilization



REPORT NUMBER: P266471

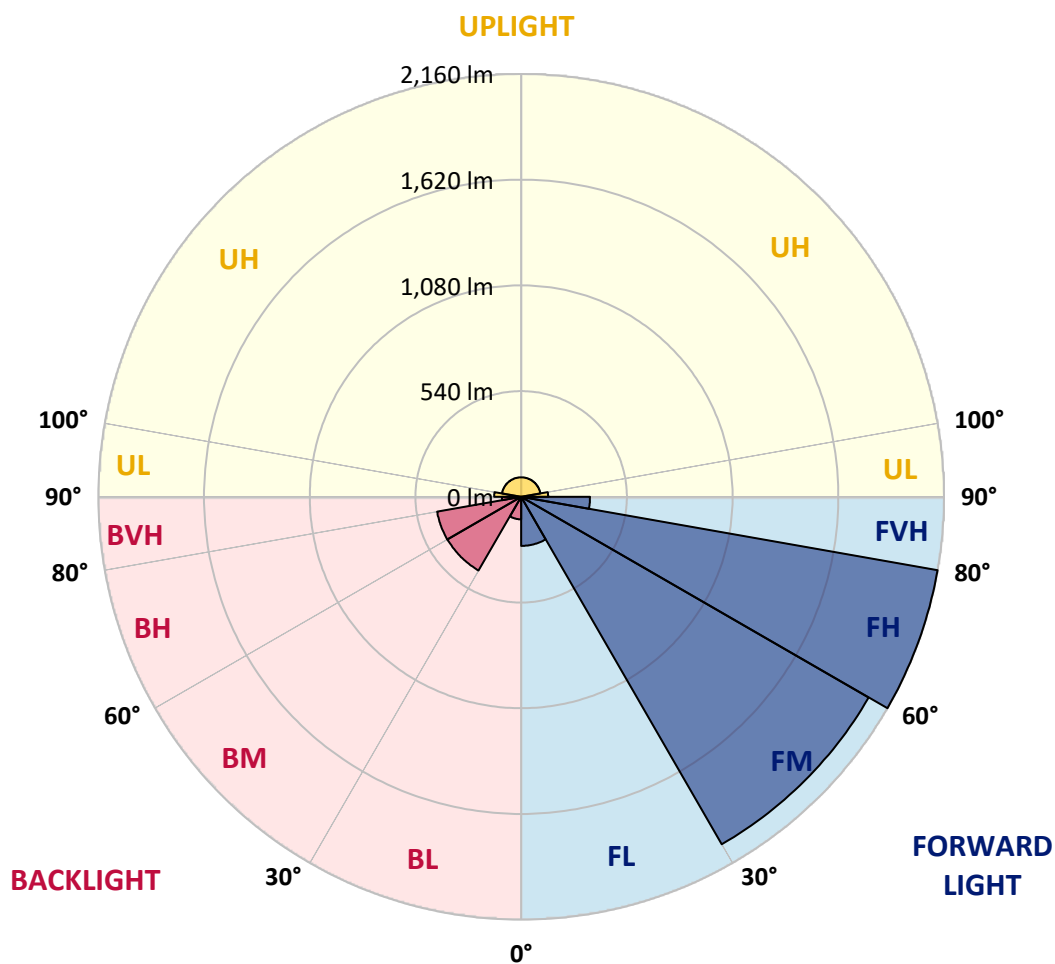
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	250.7	4.1			
FM	(30°-60°)	2049.7	33.4			
FH	(60°-80°)	2160.2	35.2			G2/5000
FVH	(80°-90°)	351.9	5.7			G3/500
BL	(0°-30°)	115.2	1.9	B1/500		
BM	(30°-60°)	434.5	7.1	B1/1000		
BH	(60°-80°)	435.9	7.1	B1/500		G1/500
BVH	(80°-90°)	98.3	1.6			G1/100
UL	(90°-100°)	137.9	2.2		U3/500	
UH	(100°-180°)	99.6	1.6		U3/500	

BUG Rating: B1-U3-G3

Type IV Medium





REPORT NUMBER: P266471

CATALOG NUMBER: UTLD-AF24-80-D-U-SL3-TL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	206.0	206.0	206.0	206.0	206.0	206.0	206.0	206.0	206.0	206.0	206.0
2.5°	229.2	230.1	230.1	227.7	226.9	224.4	220.4	218.8	217.3	215.7	212.4
5°	259.8	259.8	258.2	255.7	252.6	250.2	246.1	241.4	240.6	234.8	229.2
7.5°	294.3	295.1	295.8	291.8	287.0	283.1	278.3	271.7	270.2	264.6	254.1
10°	340.0	340.7	339.1	335.2	328.7	323.8	318.3	311.9	309.5	304.6	290.2
12.5°	395.3	394.4	389.7	384.0	376.7	371.2	364.1	359.2	357.5	352.8	337.6
15°	453.7	457.0	451.4	438.6	429.7	420.9	417.7	417.7	419.2	413.7	399.2
17.5°	529.1	531.5	521.9	504.3	489.8	480.2	477.0	483.5	485.9	488.3	475.5
20°	616.5	617.3	602.1	577.3	551.6	539.6	540.4	555.6	561.3	570.1	554.9
22.5°	723.1	716.8	695.1	656.7	619.7	600.4	607.8	638.2	642.9	661.4	653.3
25°	834.6	833.7	797.8	746.4	692.8	667.9	679.8	717.6	731.2	759.2	748.8
27.5°	963.0	959.7	913.1	849.8	776.9	740.1	750.4	804.2	820.2	867.6	856.3
30°	1099.2	1100.0	1045.4	957.2	866.7	815.4	821.8	896.4	917.2	971.6	968.6
32.5°	1261.9	1252.2	1191.4	1075.9	964.5	894.7	903.5	990.1	1018.9	1084.0	1074.4
35°	1425.5	1413.5	1332.5	1205.9	1066.3	983.7	987.7	1090.4	1120.8	1205.0	1186.7
37.5°	1576.3	1569.8	1488.9	1343.0	1180.2	1082.4	1087.2	1197.8	1236.2	1330.1	1307.7
40°	1738.2	1738.2	1655.5	1496.8	1306.9	1188.9	1196.3	1317.3	1363.7	1466.5	1428.8
42.5°	1909.7	1904.1	1816.7	1637.2	1432.6	1303.6	1318.1	1451.9	1504.0	1613.0	1574.5
45°	2078.9	2066.9	1976.4	1789.5	1558.6	1432.6	1454.4	1599.5	1654.0	1792.7	1738.9
47.5°	2224.8	2211.9	2123.1	1926.5	1690.9	1566.6	1597.0	1771.1	1828.8	1994.0	1912.1
50°	2329.0	2325.1	2238.4	2035.6	1808.7	1704.5	1768.7	1953.9	2022.9	2189.6	2112.5
52.5°	2390.0	2382.8	2313.9	2134.3	1926.5	1847.3	1945.0	2152.7	2225.6	2405.2	2315.4
55°	2376.3	2371.5	2322.7	2186.4	2018.9	1984.3	2140.7	2374.0	2442.1	2636.2	2529.4
57.5°	2268.8	2275.3	2260.9	2189.6	2086.9	2126.2	2341.2	2607.3	2679.5	2868.6	2754.8
60°	2077.3	2074.9	2115.8	2127.8	2114.3	2248.8	2583.2	2873.5	2928.7	3119.5	2974.5
62.5°	1794.4	1787.8	1876.9	1991.5	2094.2	2352.3	2801.3	3157.3	3212.6	3366.5	3177.2
65°	1447.1	1476.1	1587.5	1776.7	1994.7	2391.6	3012.9	3446.6	3492.4	3574.1	3336.8
67.5°	1096.8	1124.9	1269.1	1508.9	1828.8	2346.0	3147.7	3706.4	3750.6	3772.3	3406.6
70°	801.0	828.1	964.5	1227.4	1603.5	2213.7	3158.0	3818.6	3858.8	3805.8	3304.0
72.5°	570.1	584.4	701.5	950.9	1346.9	1981.9	3026.6	3746.6	3779.3	3632.7	3032.9
75°	403.2	409.6	510.6	723.1	1096.8	1719.7	2713.9	3423.4	3449.1	3264.7	2579.3
77.5°	275.1	289.4	369.7	551.6	879.5	1411.9	2300.2	2935.2	2935.2	2701.1	2040.4
80°	194.8	206.9	265.4	412.1	688.7	1131.2	1858.5	2332.3	2295.3	2030.0	1470.3
82.5°	140.3	149.9	196.4	314.2	534.9	894.0	1410.2	1726.9	1676.4	1416.6	971.6
85°	101.8	111.4	149.1	231.0	409.6	693.5	1056.6	1199.3	1149.7	938.9	631.0
87.5°	74.6	80.9	111.4	174.0	310.3	525.1	775.2	814.6	770.4	607.0	404.9
90°	52.9	58.5	85.0	131.5	232.5	394.4	544.5	534.9	486.6	381.6	267.8
92.5°	38.4	42.5	63.3	100.3	173.2	289.4	374.5	345.6	318.3	245.3	185.9
95°	28.8	32.1	49.6	77.8	127.5	203.6	252.6	226.9	206.0	167.5	137.1
97.5°	23.3	25.6	41.0	62.5	98.6	148.3	174.8	149.9	140.3	121.0	105.8
100°	20.0	21.6	34.5	52.1	77.8	111.4	123.4	105.0	99.4	91.4	82.6
102.5°	18.4	19.3	30.5	44.8	63.3	83.5	89.0	78.6	74.6	69.8	64.9
105°	16.9	17.6	27.3	39.3	53.7	64.9	68.1	60.1	57.8	52.9	49.6
107.5°	16.0	16.0	24.1	34.5	45.8	53.7	53.7	47.3	44.8	40.1	38.4
110°	15.2	15.2	21.6	31.4	39.3	45.8	44.0	37.6	35.3	30.5	29.6



REPORT NUMBER: P266471

CATALOG NUMBER: UTLD-AF24-80-D-U-SL3-TL-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	14.5	14.5	20.0	27.3	34.5	38.4	36.9	30.5	28.0	23.3	23.3
115°	13.7	13.7	17.6	24.1	30.5	32.9	31.4	24.9	23.3	18.4	19.3
117.5°	13.7	13.7	16.9	21.6	26.5	28.8	26.5	20.0	18.4	15.2	16.9
120°	12.8	12.8	15.2	19.3	23.3	24.9	22.5	16.9	15.2	12.8	14.5
122.5°	12.8	12.8	14.5	16.9	20.8	21.6	19.3	14.5	12.8	11.1	12.8
125°	12.0	12.0	13.7	15.2	17.6	18.4	16.0	12.0	11.1	10.4	11.1
127.5°	12.0	12.0	12.8	13.7	16.0	16.0	13.7	9.6	9.6	8.9	10.4
130°	11.1	12.0	12.0	12.8	13.7	13.7	11.1	8.1	8.1	8.1	9.6
132.5°	11.1	11.1	11.1	11.1	12.0	11.1	8.9	7.2	7.2	7.2	8.9
135°	10.4	10.4	10.4	10.4	9.6	8.9	7.2	5.6	5.6	6.4	8.1
137.5°	10.4	10.4	9.6	8.9	8.9	7.2	5.6	4.9	4.9	6.4	7.2
140°	9.6	9.6	8.9	8.1	6.4	5.6	4.0	4.0	4.0	4.9	5.6
142.5°	8.1	8.1	8.1	6.4	4.9	3.2	2.4	2.4	3.2	4.0	4.9
145°	7.2	7.2	6.4	5.6	3.2	1.5	0.8	1.5	2.4	3.2	4.0
147.5°	5.6	5.6	4.9	4.0	1.5	0.8	0.0	0.8	1.5	1.5	2.4
150°	4.0	4.0	4.0	2.4	0.8	0.0	0.0	0.8	0.8	0.8	1.5
152.5°	3.2	3.2	2.4	1.5	0.0	0.0	0.0	0.0	0.8	0.8	0.8
155°	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8
157.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.8	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: P266471

CATALOG NUMBER: UTLD-AF24-80-D-U-SL3-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	206.0	206.0	206.0	206.0	206.0	206.0	206.0	206.0	206.0	206.0	206.0
2.5°	210.1	209.2	205.3	202.1	198.0	194.8	191.6	189.3	188.5	186.8	187.6
5°	224.4	221.3	213.3	206.0	198.0	190.8	184.4	179.7	175.6	174.0	173.2
7.5°	249.3	244.5	230.1	217.3	204.5	191.6	181.2	173.2	168.3	165.2	165.2
10°	285.4	275.1	256.6	234.8	213.3	194.8	180.4	169.2	162.0	159.5	159.5
12.5°	329.5	318.3	289.4	256.6	226.2	200.4	181.2	169.2	162.0	158.7	157.9
15°	388.1	371.2	328.7	282.2	238.1	205.3	181.9	170.0	165.2	163.5	163.5
17.5°	457.0	436.1	374.5	310.3	251.7	207.7	184.4	174.8	172.4	172.4	172.4
20°	538.8	508.4	425.7	335.2	261.3	210.1	185.9	178.9	178.9	180.4	181.2
22.5°	626.2	587.8	475.5	358.3	264.6	211.7	185.2	180.4	184.4	188.5	189.3
25°	719.2	665.5	520.3	372.7	266.2	207.7	182.7	181.2	189.3	194.8	196.4
27.5°	817.7	744.9	558.8	378.5	261.3	200.4	178.9	179.7	191.6	199.7	201.2
30°	908.4	819.3	589.3	376.7	250.9	191.6	174.0	177.1	191.6	202.8	205.3
32.5°	1002.1	893.2	607.8	369.7	238.1	181.9	168.3	174.8	190.8	203.6	206.0
35°	1096.0	958.1	616.5	355.2	223.7	173.2	162.8	170.8	188.5	202.8	204.5
37.5°	1189.7	1022.2	618.9	336.8	210.8	165.9	158.7	168.3	184.4	201.2	203.6
40°	1290.9	1085.5	614.1	318.3	198.9	161.2	155.5	165.2	181.2	198.9	202.1
42.5°	1403.8	1153.0	608.5	299.9	190.8	157.9	153.2	162.0	176.3	196.4	200.4
45°	1529.8	1226.6	605.3	285.4	185.9	156.3	152.4	159.5	174.0	194.8	198.9
47.5°	1665.2	1319.7	608.5	275.8	183.7	157.2	152.4	157.9	170.8	191.6	196.4
50°	1830.3	1426.2	620.5	268.7	182.7	157.9	153.2	156.3	167.5	186.8	191.6
52.5°	2001.2	1535.4	639.9	266.9	183.7	159.5	153.9	155.5	162.8	180.4	184.4
55°	2178.3	1679.7	672.7	269.4	185.2	162.0	154.8	153.9	158.7	172.4	177.1
57.5°	2378.7	1829.6	713.6	275.1	187.6	163.5	155.5	152.4	153.9	165.2	169.2
60°	2577.5	1981.9	755.2	282.2	192.3	165.9	156.3	151.5	151.5	160.3	163.5
62.5°	2757.9	2115.8	789.7	291.8	196.4	167.5	156.3	149.9	149.1	156.3	159.5
65°	2881.5	2186.4	797.8	297.5	200.4	168.3	154.8	148.3	147.5	153.2	156.3
67.5°	2914.3	2175.2	781.6	299.9	202.8	168.3	154.8	146.8	147.5	152.4	154.8
70°	2786.1	2058.8	728.7	295.1	202.1	167.5	153.2	145.2	146.8	151.5	153.2
72.5°	2479.9	1818.3	647.0	283.1	198.0	164.4	149.9	142.7	145.2	150.7	152.4
75°	2081.4	1506.5	550.0	263.7	190.8	160.3	146.8	139.4	143.5	149.1	149.9
77.5°	1601.0	1154.5	449.8	238.9	181.2	154.8	141.9	134.7	140.3	146.8	146.0
80°	1136.8	841.8	355.2	213.3	168.3	146.8	135.6	129.0	135.6	141.9	140.3
82.5°	783.3	570.9	283.9	188.5	154.8	137.9	128.3	122.7	129.8	135.6	133.0
85°	513.1	385.6	223.7	165.2	141.9	129.0	120.3	114.7	121.9	126.8	123.4
87.5°	331.1	268.7	178.9	143.5	128.3	119.5	111.4	106.5	113.8	117.9	114.7
90°	230.1	195.7	147.5	124.2	115.4	109.1	102.6	97.8	104.3	107.4	105.8
92.5°	164.4	149.9	122.7	109.1	104.3	98.6	93.1	89.0	95.4	97.8	96.2
95°	128.3	119.5	104.3	96.2	93.9	89.8	84.3	80.2	85.0	86.5	85.8
97.5°	102.6	98.6	89.8	85.0	83.5	80.2	76.1	72.1	75.4	76.1	75.4
100°	82.6	80.9	77.0	74.6	73.8	71.3	67.4	64.0	65.8	64.9	64.9
102.5°	65.8	65.8	64.9	64.0	64.0	61.8	58.5	55.3	55.3	53.7	53.7
105°	52.1	53.7	53.7	54.4	55.3	53.7	50.6	46.5	45.8	43.3	43.3
107.5°	41.0	42.5	44.8	45.8	46.5	44.8	42.5	38.4	36.1	33.6	34.5
110°	32.1	33.6	36.9	38.4	39.3	38.4	35.3	32.1	28.0	26.5	27.3



REPORT NUMBER: P266471

CATALOG NUMBER: UTLD-AF24-80-D-U-SL3-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	24.9	27.3	30.5	32.1	32.9	32.1	28.8	25.6	21.6	20.8	20.8
115°	20.8	22.5	25.6	27.3	27.3	26.5	24.1	20.0	16.9	16.0	16.9
117.5°	17.6	19.3	21.6	23.3	23.3	22.5	20.0	16.0	13.7	13.7	13.7
120°	15.2	16.9	18.4	20.0	20.0	19.3	16.9	12.8	11.1	11.1	11.1
122.5°	13.7	14.5	16.0	16.9	16.9	16.0	13.7	10.4	8.9	9.6	9.6
125°	12.0	12.8	14.5	15.2	14.5	13.7	11.1	8.1	7.2	8.1	8.1
127.5°	11.1	12.0	12.8	12.8	12.8	11.1	9.6	6.4	6.4	7.2	7.2
130°	10.4	10.4	11.1	11.1	10.4	9.6	7.2	4.9	4.9	6.4	6.4
132.5°	9.6	9.6	10.4	9.6	9.6	8.1	5.6	4.0	4.9	5.6	5.6
135°	8.1	8.1	8.9	8.9	7.2	6.4	4.0	3.2	3.2	4.0	4.9
137.5°	7.2	8.1	8.1	7.2	6.4	4.9	3.2	2.4	3.2	3.2	4.0
140°	6.4	6.4	6.4	5.6	4.9	3.2	1.5	1.5	2.4	2.4	2.4
142.5°	4.9	5.6	5.6	4.9	3.2	1.5	0.8	0.8	1.5	1.5	1.5
145°	4.0	4.0	4.0	3.2	2.4	1.5	0.8	0.8	0.8	0.8	0.8
147.5°	2.4	3.2	3.2	2.4	1.5	0.8	0.0	0.0	0.0	0.0	0.0
150°	1.5	1.5	2.4	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0
152.5°	0.8	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.8	1.5	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	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	0.8	0.8	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

(END OF REPORT)