

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: P266454

Luminaire Tested: **UTLD-AF24-70-D-U-T4W-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-16)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-70-D-U-T4W-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5299 lumens
Efficiency: N/A
Efficacy: 71.6 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 - U3 - G2

Input Watts (W): 74
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

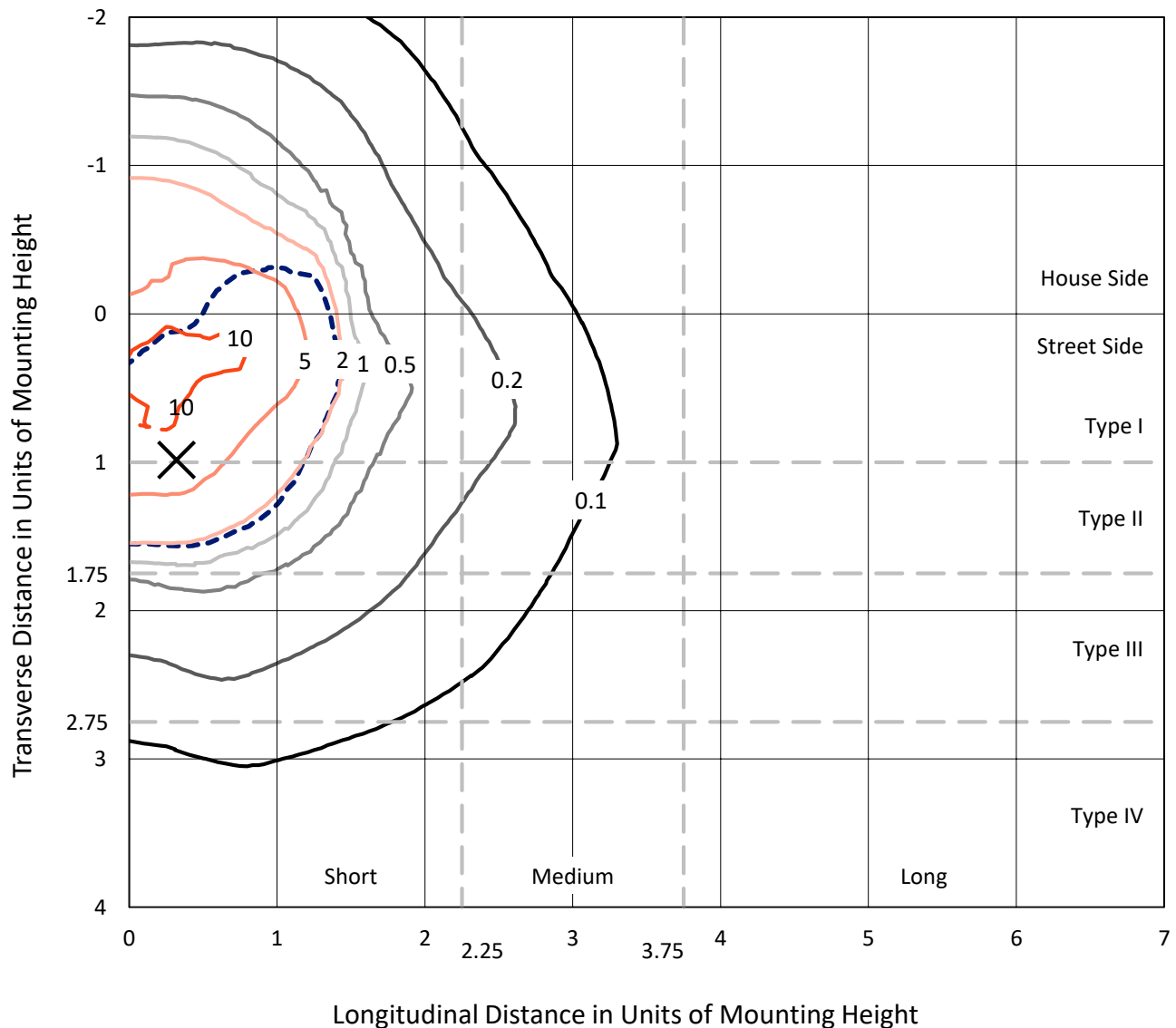


REPORT NUMBER: P266454

CATALOG NUMBER: UTLD-AF24-70-D-U-T4W-A-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

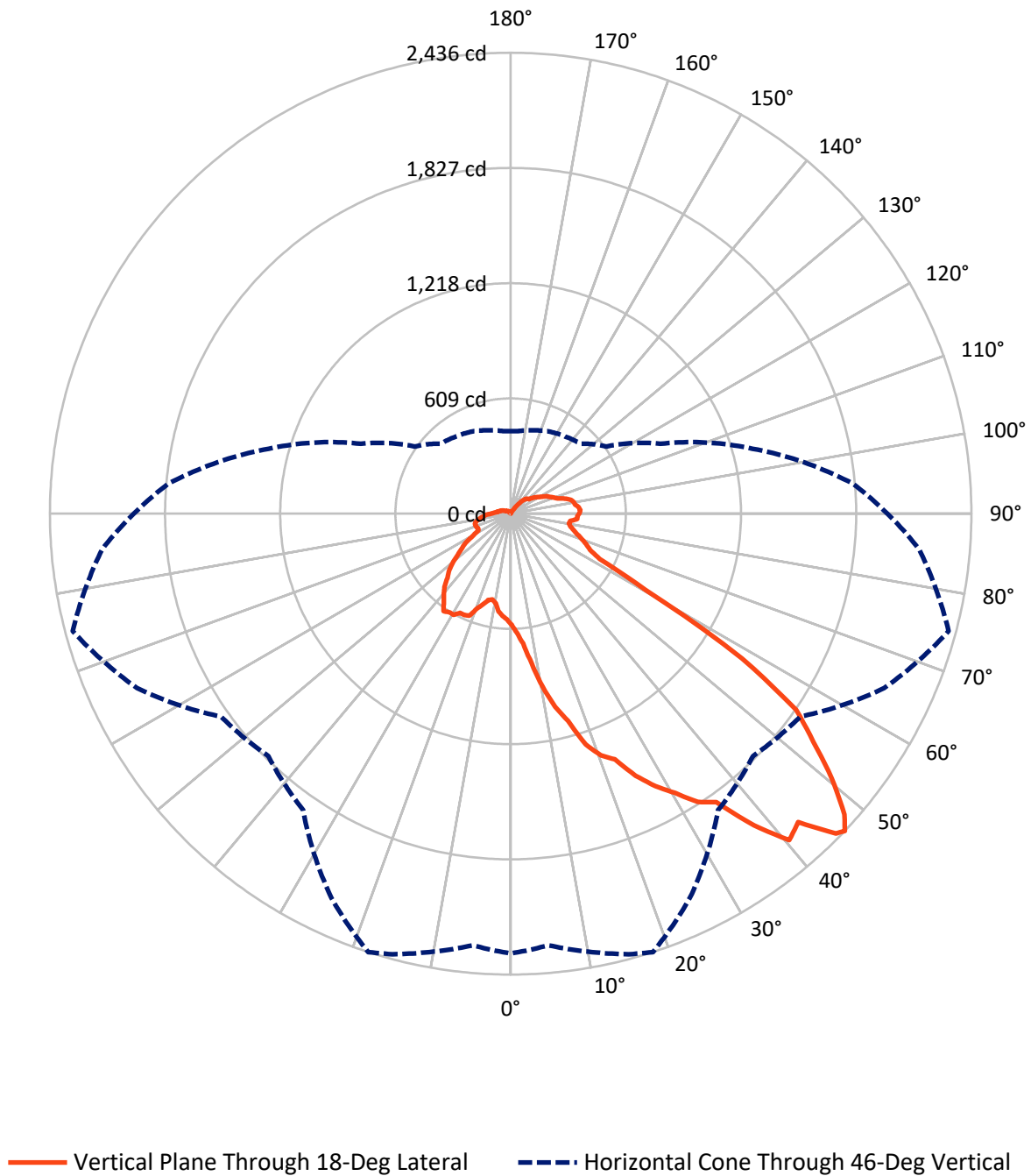


Based on 10 foot mounting height. Maximum calculated value = 12.9 fc
Type II - Short - Non-Cutoff

REPORT NUMBER: P266454

CATALOG NUMBER: UTLD-AF24-70-D-U-T4W-A-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266454

CATALOG NUMBER: UTLD-AF24-70-D-U-T4W-A-7027

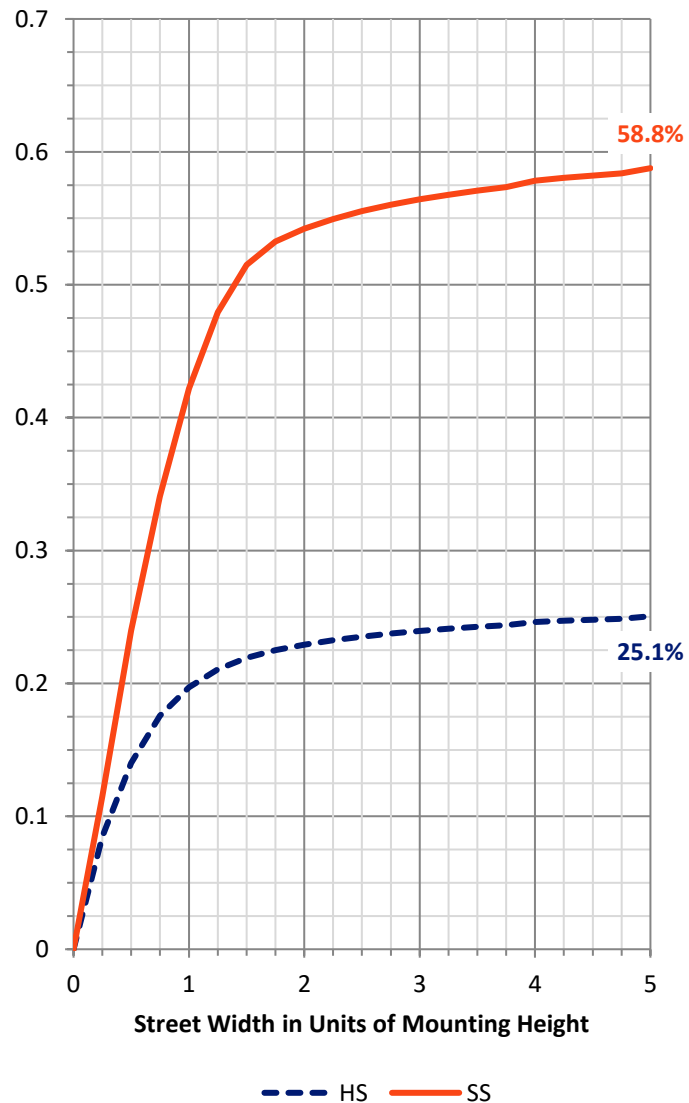
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1378.4	171.6	1550.0
	% Fixture	26.0	3.2	29.3
Street Side	Lumens	3234.6	514.4	3749.0
	% Fixture	61.0	9.7	70.7
Total	Lumens	4613.0	686.0	5299.0
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.9	1.2
10°-20°	256.5	4.8
20°-30°	521.7	9.8
30°-40°	854.1	16.1
40°-50°	1111.7	21.0
50°-60°	831.8	15.7
60°-70°	346.5	6.5
70°-80°	315.2	5.9
80°-90°	312.5	5.9
90°-100°	251.3	4.7
100°-110°	178.6	3.4
110°-120°	120.7	2.3
120°-130°	77.7	1.5
130°-140°	46.0	0.9
140°-150°	11.2	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4613.0	87.1
0°-180°	5299.0	100.0

Coefficient of Utilization



REPORT NUMBER: P266454

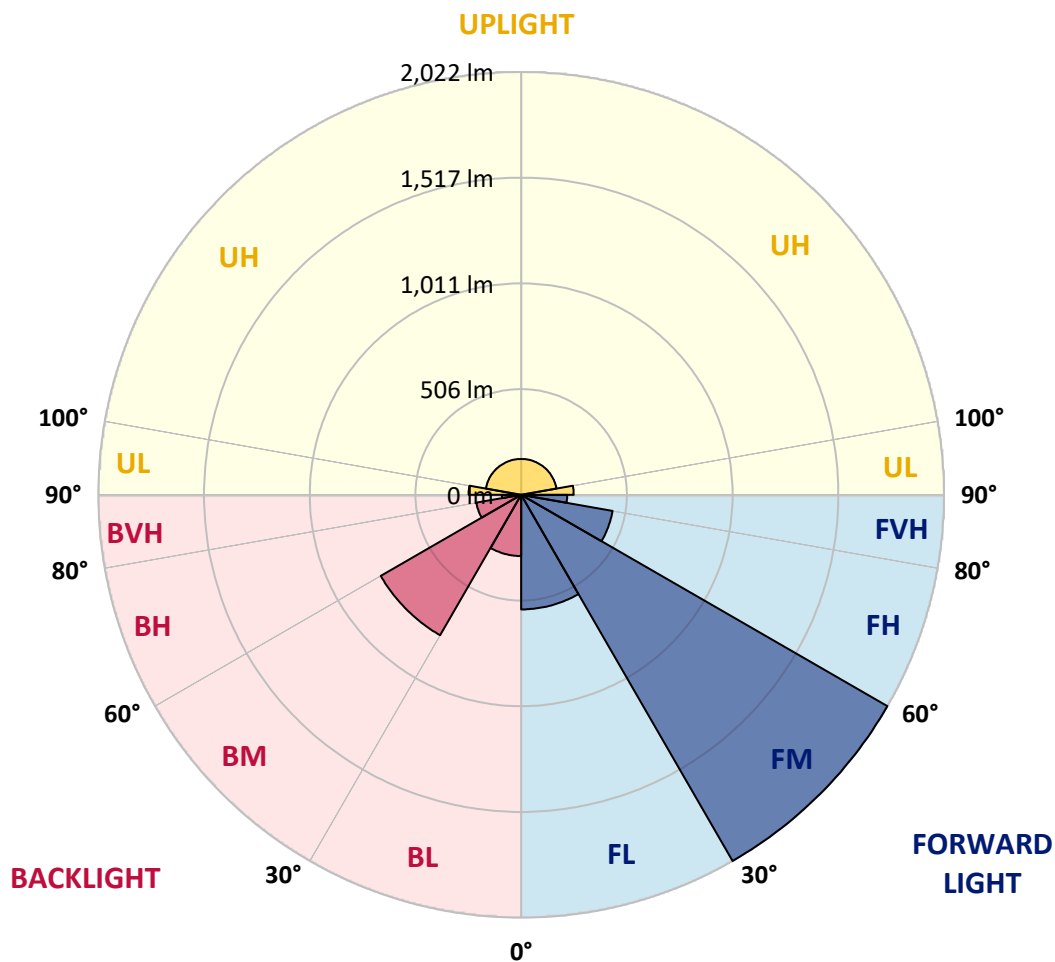
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	548.1	10.3			
FM	(30°-60°)	2022.3	38.2			
FH	(60°-80°)	443.8	8.4			G0/660
FVH	(80°-90°)	220.3	4.2			G2/225
BL	(0°-30°)	293.0	5.5	B1/500		
BM	(30°-60°)	775.3	14.6	B1/1000		
BH	(60°-80°)	217.9	4.1	B1/500		G1/500
BVH	(80°-90°)	92.2	1.7			G1/100
UL	(90°-100°)	251.3	4.7		U3/500	
UH	(100°-180°)	171.6	3.2		U3/500	

BUG Rating: B1-U3-G2

Type II Short





REPORT NUMBER: P266454

CATALOG NUMBER: UTLD-AF24-70-D-U-T4W-A-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
0°	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
2.5°	630.9	627.9	629.4	629.4	625.8	624.3	620.5	616.1	610.4	603.8	597.9
5°	693.1	690.9	690.2	689.4	688.8	679.2	668.2	658.6	648.4	637.4	622.0
7.5°	808.1	807.4	803.1	798.0	790.6	774.5	754.7	745.1	731.3	714.4	690.9
10°	951.8	941.6	932.0	932.0	917.3	911.5	905.6	891.7	882.9	859.5	825.8
12.5°	1033.9	1028.7	1048.5	1047.1	1066.1	1100.6	1112.3	1124.0	1070.5	1002.4	939.4
15°	1110.8	1110.8	1135.6	1136.4	1192.9	1269.0	1326.9	1270.6	1172.4	1062.4	978.2
17.5°	1216.3	1223.0	1258.9	1283.0	1359.1	1490.4	1450.9	1346.7	1200.1	1069.1	974.5
20°	1262.5	1277.1	1332.0	1363.5	1481.6	1605.5	1567.4	1445.0	1275.0	1125.4	1030.1
22.5°	1291.0	1301.4	1365.9	1410.5	1561.4	1666.1	1660.3	1536.6	1376.1	1189.1	1079.4
25°	1408.4	1414.9	1488.1	1534.3	1694.1	1727.8	1661.1	1575.4	1417.9	1223.6	1127.0
27.5°	1447.9	1448.5	1561.4	1631.1	1762.1	1750.4	1664.0	1628.1	1548.3	1395.1	1329.9
30°	1501.3	1499.9	1639.0	1713.8	1793.6	1743.9	1674.4	1705.8	1710.9	1586.3	1467.7
32.5°	1567.4	1561.4	1727.8	1817.1	1842.9	1742.4	1691.1	1744.6	1822.3	1693.3	1565.8
35°	1628.1	1633.3	1812.1	1872.8	1897.0	1751.2	1700.0	1817.1	1974.7	1875.0	1661.1
37.5°	2019.4	2013.6	2070.0	2091.2	2030.3	1781.2	1733.5	1907.3	2138.1	2094.8	1865.5
40°	2108.1	2088.3	2256.8	2269.3	2162.3	1887.5	1826.0	1961.4	2267.1	2343.9	2161.5
42.5°	2033.4	2028.2	2212.0	2229.0	2152.0	1959.4	1886.8	2005.5	2281.7	2344.7	2041.4
45°	2362.4	2335.1	2431.2	2411.4	2198.2	1928.5	1849.4	1956.4	2231.1	2407.7	2167.4
46°	2325.0	2290.5	2411.4	2436.4	2242.1	1913.1	1812.1	1869.9	2180.5	2397.4	2168.9
47.5°	2210.5	2213.6	2374.8	2376.1	2197.4	1915.4	1750.4	1817.9	2067.8	2266.3	1961.4
50°	1930.0	1897.0	2191.5	2201.0	2030.3	1832.5	1687.5	1718.3	1956.4	2078.0	1768.0
52.5°	1858.1	1832.5	2006.2	2004.7	1850.9	1706.5	1572.5	1604.6	1873.5	2012.1	1790.9
55°	1707.3	1698.4	1844.3	1831.9	1724.0	1551.2	1455.2	1474.9	1554.1	1499.9	892.5
57.5°	1134.3	1167.9	1420.0	1444.1	1445.0	1363.5	1243.4	1061.0	918.1	781.0	436.7
60°	463.0	502.0	782.6	819.2	872.7	1022.1	901.3	709.3	592.8	616.1	377.4
62.5°	349.5	364.2	522.5	529.0	549.6	622.0	614.8	514.4	506.4	557.6	361.2
65°	325.4	338.5	463.0	460.9	451.4	471.2	469.6	446.2	455.0	519.5	359.9
67.5°	307.7	321.0	430.1	430.8	422.8	426.4	429.4	417.6	438.2	504.8	369.4
70°	290.2	304.0	395.7	397.9	403.7	417.0	422.1	413.3	431.5	486.5	368.6
72.5°	269.0	284.4	363.5	367.0	378.8	408.9	426.4	424.3	426.4	459.5	367.0
75°	261.5	276.9	336.3	343.0	359.9	405.1	450.6	435.9	421.3	441.8	358.3
77.5°	229.3	246.9	307.7	322.4	359.9	417.0	466.8	461.5	434.5	430.1	348.8
80°	220.5	237.4	296.0	312.2	352.4	427.1	482.8	483.6	469.6	446.2	358.3
82.5°	222.1	238.1	299.0	317.3	363.5	434.5	469.6	488.0	489.4	460.1	369.4
85°	260.9	276.1	334.1	353.2	393.5	432.4	459.5	472.6	485.9	485.9	405.1
87.5°	278.5	292.4	336.3	353.2	392.0	437.5	433.1	455.0	468.1	485.1	417.6
90°	294.6	303.4	348.8	364.9	385.5	422.1	410.3	403.7	414.7	432.4	391.3
92.5°	306.3	314.3	354.7	368.6	386.1	394.1	376.6	357.5	384.7	398.6	364.2
95°	327.5	334.9	356.1	361.2	359.1	366.4	339.3	332.0	343.6	359.1	337.0
97.5°	312.9	318.0	338.5	344.4	343.0	332.0	304.9	300.5	310.6	322.4	298.1
100°	312.9	319.4	334.9	338.5	329.7	301.9	274.1	272.5	279.2	285.0	262.3
102.5°	319.4	322.4	325.4	327.5	311.4	280.6	260.1	254.9	257.2	260.1	239.6
105°	302.5	303.4	304.9	298.1	285.0	261.5	241.0	232.3	239.6	248.4	231.6
107.5°	261.5	260.9	261.5	259.4	258.0	244.0	229.3	218.4	218.4	221.3	205.2



REPORT NUMBER: P266454

CATALOG NUMBER: UTLD-AF24-70-D-U-T4W-A-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
110°	244.0	244.7	244.0	244.0	237.4	227.9	213.9	202.2	196.4	197.8	183.2
112.5°	223.5	223.5	224.1	224.9	221.3	212.4	198.5	186.8	179.5	178.0	164.1
115°	223.5	221.3	214.7	213.9	206.6	194.2	184.0	169.3	164.1	164.1	155.3
117.5°	199.3	197.8	192.6	191.2	186.8	176.5	170.7	159.0	155.3	153.2	145.0
120°	176.5	176.5	174.5	173.6	169.3	163.4	150.9	146.6	143.5	146.6	141.5
122.5°	164.1	164.1	160.4	159.0	153.9	149.5	138.5	130.4	125.4	131.2	128.2
125°	150.9	150.1	145.0	144.4	135.6	135.6	129.6	119.5	105.6	111.4	110.0
127.5°	132.6	132.0	125.4	124.5	119.5	125.4	123.8	110.6	91.5	95.3	95.3
130°	127.5	126.0	120.2	118.7	113.5	112.1	117.9	96.7	85.7	89.4	88.7
132.5°	127.5	126.0	118.7	116.5	108.4	100.4	106.2	84.4	82.0	86.4	85.7
135°	115.1	115.1	108.4	104.1	95.9	81.3	82.9	65.1	71.9	78.4	78.4
137.5°	97.5	97.5	90.9	89.4	79.9	65.1	58.6	49.9	60.8	68.1	68.9
140°	76.1	76.1	71.1	68.1	61.5	43.2	27.0	30.8	46.2	52.8	54.9
142.5°	54.9	54.2	49.9	46.2	39.5	23.4	8.9	17.5	27.0	35.9	38.8
145°	38.1	37.4	32.2	30.1	24.2	11.0	2.2	7.4	16.1	21.2	25.0
147.5°	22.6	22.6	19.0	18.3	12.4	3.0	1.4	2.2	8.1	13.1	15.5
150°	13.1	13.1	9.5	7.4	3.0	0.7	0.7	0.7	2.2	5.8	7.4
152.5°	3.0	3.0	2.2	1.4	1.4	0.7	0.0	0.7	0.7	0.7	1.4
155°	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
157.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.7	0.7	0.7	0.7
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
162.5°	0.7	0.7	0.0	0.0	0.7	0.0	0.7	0.0	0.7	0.7	0.7
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: P266454

CATALOG NUMBER: UTLD-AF24-70-D-U-T4W-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
2.5°	594.9	592.1	585.4	577.4	571.5	566.4	562.7	560.5	559.0	555.4	556.9
5°	617.0	611.0	595.7	583.3	570.1	558.3	549.6	543.7	541.5	538.5	538.5
7.5°	679.9	666.1	642.6	613.4	586.1	562.7	540.8	528.4	517.3	511.5	510.0
10°	803.9	785.5	735.0	674.8	615.5	562.7	520.2	489.4	474.8	469.6	469.6
12.5°	906.4	877.9	811.9	744.4	665.4	582.6	519.5	477.7	458.0	451.4	451.4
15°	937.1	899.8	822.0	756.2	685.0	615.5	556.9	496.9	460.9	450.0	446.2
17.5°	927.6	890.9	820.6	740.8	661.0	609.0	556.9	524.6	491.6	472.6	469.6
20°	988.5	954.7	881.4	792.0	693.9	577.4	544.5	537.0	529.0	516.5	516.5
22.5°	1039.0	1007.4	934.1	838.2	720.4	644.1	594.9	587.6	578.9	576.6	575.2
25°	1077.8	1044.1	943.8	833.1	747.4	691.6	628.6	603.8	582.6	576.0	573.7
27.5°	1285.1	1233.2	1071.9	915.2	792.0	707.9	635.3	603.0	583.3	575.2	580.3
30°	1406.8	1350.4	1173.8	968.0	845.6	743.0	648.4	610.4	615.5	622.0	627.1
32.5°	1499.9	1425.9	1218.6	974.5	836.9	749.5	669.6	624.3	609.6	618.5	619.9
35°	1591.4	1501.3	1276.4	1016.3	848.4	725.4	655.0	628.6	624.3	636.0	633.8
37.5°	1777.6	1659.6	1348.1	1028.0	837.5	696.8	630.2	602.4	579.5	576.6	580.3
40°	2020.8	1862.5	1420.0	1022.9	786.1	662.4	598.6	567.1	549.6	538.5	531.9
42.5°	1899.1	1740.1	1327.7	981.8	723.9	600.8	566.4	538.5	515.8	502.0	498.3
45°	2032.5	1877.3	1351.1	899.1	652.9	545.9	518.1	499.0	467.5	454.4	452.0
46°	1992.4	1816.5	1324.8	873.4	618.5	522.5	499.0	479.2	455.8	437.5	435.9
47.5°	1845.7	1640.6	1247.0	804.5	594.9	483.6	467.5	455.8	443.4	422.1	419.1
50°	1647.1	1490.4	1107.2	715.1	501.2	431.5	417.6	413.9	400.0	374.5	376.6
52.5°	1631.9	1480.0	1031.0	658.0	444.8	378.0	373.6	362.6	351.0	328.3	327.5
55°	786.9	669.0	572.3	515.1	372.2	334.9	332.6	327.5	312.9	292.4	296.0
57.5°	372.9	324.6	280.6	297.5	292.4	293.8	295.4	294.6	277.7	249.9	255.7
60°	326.9	283.5	242.5	230.1	241.9	260.1	260.1	249.1	225.7	192.6	189.8
62.5°	315.0	271.8	234.5	217.6	223.5	234.5	228.6	211.0	187.6	157.6	156.0
65°	316.6	270.4	233.6	212.4	217.6	222.1	211.0	197.1	184.6	163.4	163.4
67.5°	323.1	276.1	236.7	210.4	213.9	216.9	206.6	196.4	189.1	173.0	174.5
70°	324.6	279.9	239.6	211.0	210.4	213.2	205.9	196.4	192.6	181.6	181.0
72.5°	324.6	282.8	236.7	205.9	204.5	205.9	201.5	196.4	195.7	189.1	187.6
75°	313.6	276.1	226.5	195.7	194.2	195.7	194.2	193.4	196.4	193.4	190.5
77.5°	302.5	269.6	219.0	187.6	185.4	184.6	184.0	184.6	189.1	186.8	182.4
80°	307.7	272.5	217.6	181.0	174.5	171.4	171.4	172.1	172.1	165.6	159.0
82.5°	316.6	277.7	210.4	168.5	157.6	152.4	153.9	159.0	161.2	156.0	150.9
85°	348.8	301.1	211.8	159.7	143.5	137.8	140.0	146.6	142.1	134.8	128.9
87.5°	362.6	309.1	207.4	146.6	133.4	131.2	131.2	134.8	132.0	120.2	115.1
90°	346.6	296.0	187.6	124.5	115.8	117.9	118.7	115.1	102.5	89.4	85.0
92.5°	324.6	276.9	173.6	114.4	102.5	101.9	101.1	99.0	89.4	74.6	71.9
95°	306.3	260.9	160.4	104.8	93.9	91.5	90.9	87.9	79.1	68.1	66.7
97.5°	266.6	227.9	145.9	96.7	84.4	82.9	82.0	78.4	70.3	62.3	61.5
100°	239.6	202.9	130.4	87.1	76.1	74.0	73.3	71.1	64.5	58.6	57.9
102.5°	217.6	186.0	120.9	79.9	68.1	65.1	65.1	63.7	60.0	56.5	56.5
105°	211.8	182.4	117.1	73.3	60.8	59.4	58.6	58.6	55.7	53.4	53.4
107.5°	186.0	159.7	101.1	65.1	54.9	53.4	53.4	53.4	52.8	52.0	52.8



REPORT NUMBER: P266454

CATALOG NUMBER: UTLD-AF24-70-D-U-T4W-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	167.9	144.4	93.1	60.8	51.4	49.0	49.0	49.0	49.0	50.6	50.6
112.5°	149.5	129.6	85.7	57.9	47.6	45.5	43.9	43.2	42.5	45.5	46.2
115°	141.5	123.8	82.0	54.9	45.5	43.2	40.3	38.8	36.7	38.8	39.5
117.5°	133.4	117.1	80.6	54.2	43.9	40.3	37.4	35.9	33.0	35.2	35.2
120°	131.2	116.5	82.0	54.9	42.5	37.4	35.2	31.5	30.1	31.5	32.2
122.5°	120.9	107.6	77.0	51.4	40.3	35.9	33.0	27.0	26.4	28.6	28.6
125°	102.5	92.3	66.7	46.2	38.1	35.2	32.2	24.2	25.0	26.4	27.0
127.5°	90.1	81.3	60.8	44.6	38.1	35.9	30.1	21.2	23.4	25.6	26.4
130°	84.4	77.7	60.8	46.2	39.5	36.7	25.0	19.9	22.0	24.2	24.2
132.5°	82.0	77.0	62.3	49.0	41.1	35.2	20.5	18.3	20.5	22.0	22.0
135°	75.5	71.1	59.4	47.6	37.4	27.8	16.1	16.1	19.0	20.5	20.5
137.5°	66.7	63.1	53.4	43.9	33.0	21.2	11.7	14.0	16.1	17.5	17.5
140°	53.4	51.4	43.9	34.5	23.4	11.7	8.9	11.0	13.1	14.6	14.6
142.5°	38.1	36.7	30.8	22.0	14.0	5.1	5.8	8.1	10.3	11.7	11.7
145°	25.0	23.4	19.0	14.0	5.8	1.4	3.7	5.8	8.1	8.9	8.9
147.5°	15.5	14.6	11.7	6.6	2.2	1.4	1.4	4.4	5.8	6.6	6.6
150°	8.1	7.4	5.1	2.2	0.7	0.7	0.7	1.4	3.7	4.4	5.1
152.5°	2.2	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.2
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
157.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.7	0.0	0.7	0.7	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)