

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: P266488

Luminaire Tested: **UTLD-AF24-80-D-U-T4W-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266488
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-AF24-80-D-U-T4W-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 5797.6 lumens
Efficiency: N/A
Efficacy: 69.9 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 - G3

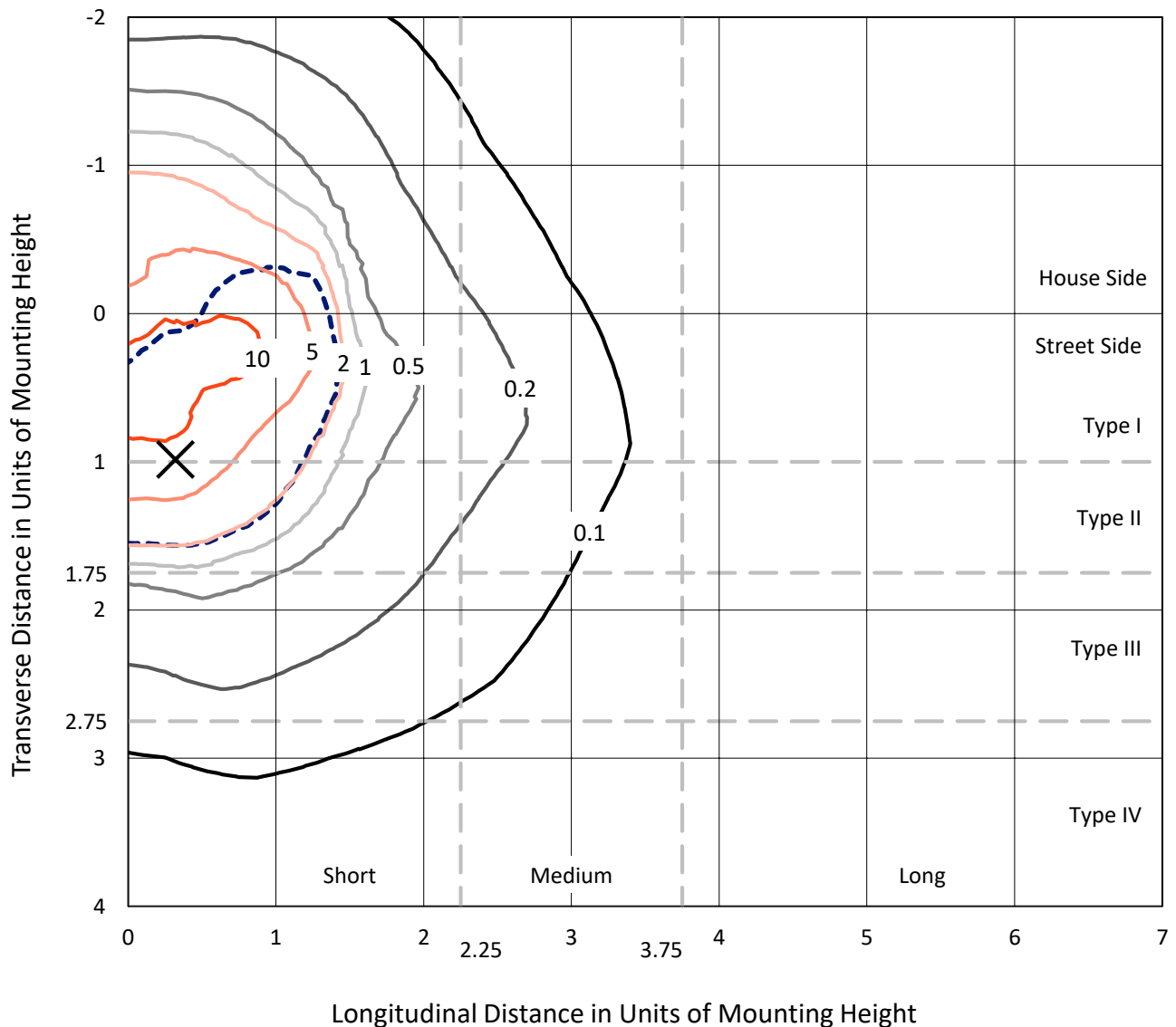
Input Watts (W): 83
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

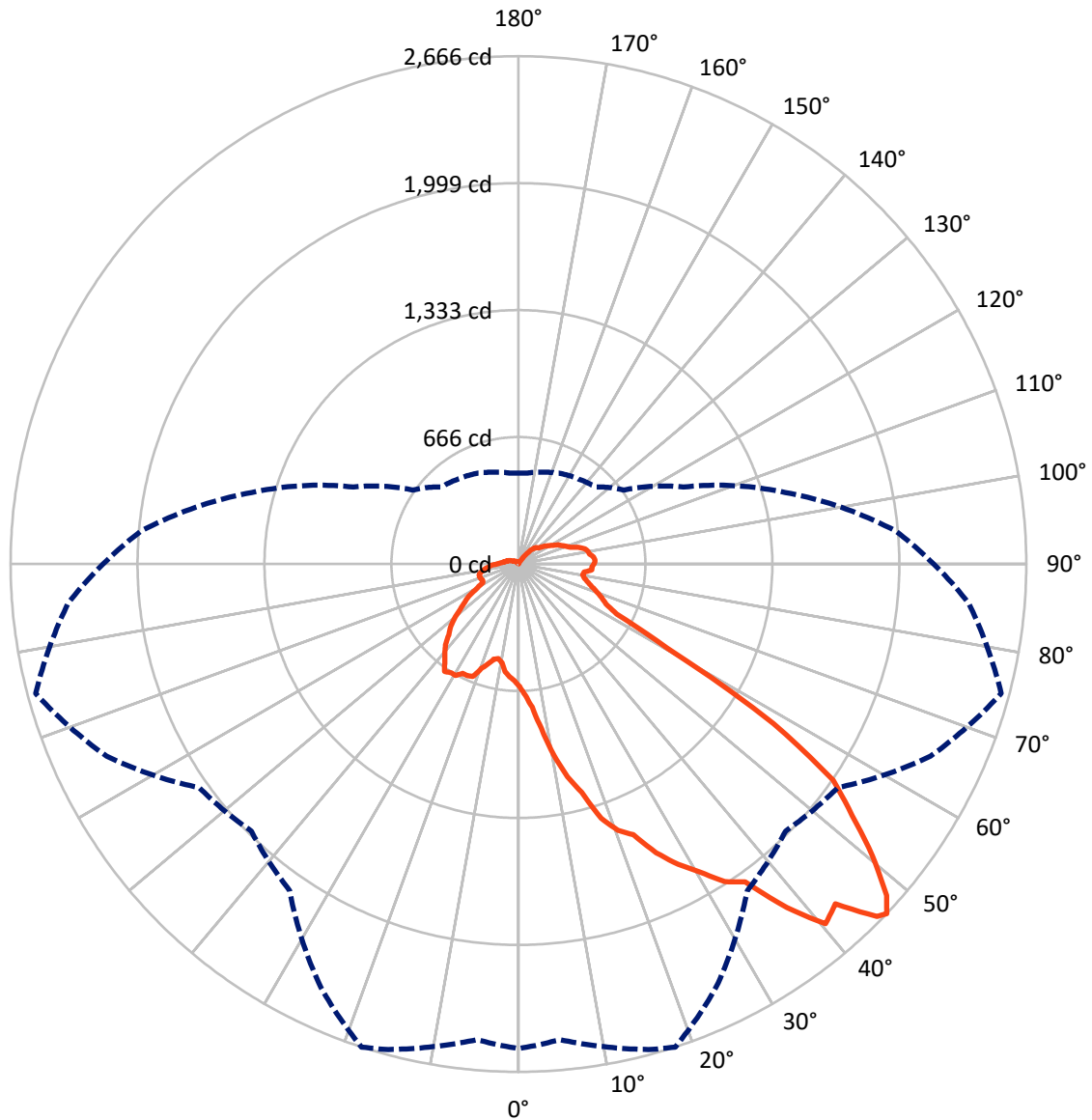
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P266488
CATALOG NUMBER: UTLD-AF24-80-D-U-T4W-A-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 18-Deg Lateral - - - Horizontal Cone Through 46-Deg Vertical

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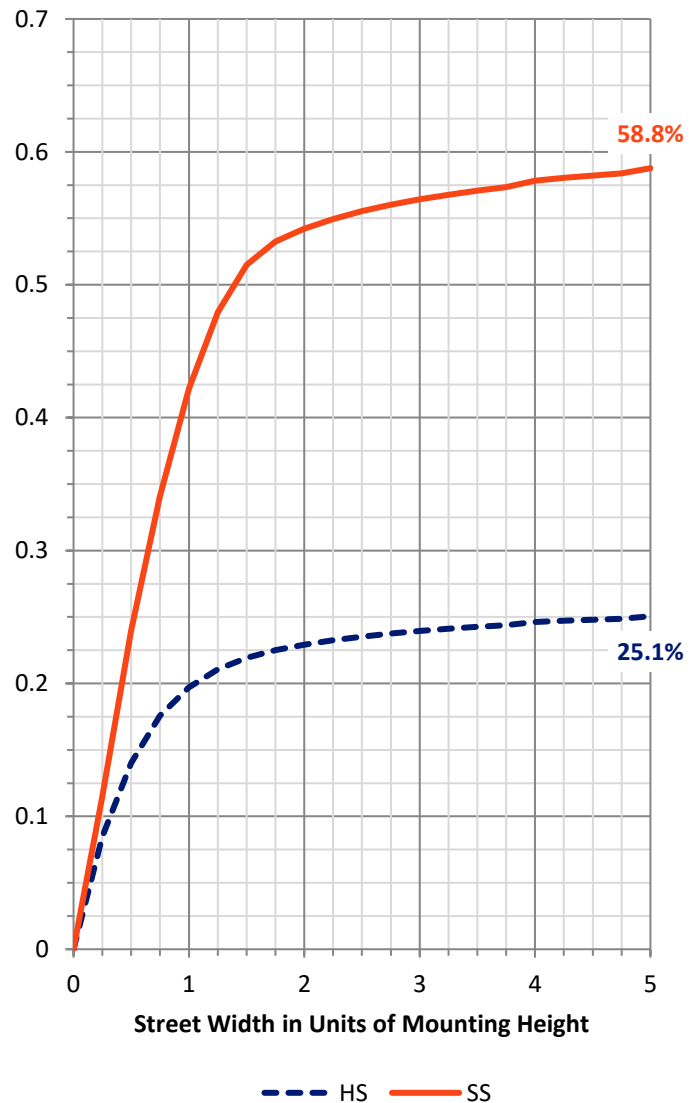
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1508.1	187.7	1695.8
	% Fixture	26.0	3.2	29.3
Street Side	Lumens	3538.9	562.8	4101.8
	% Fixture	61.0	9.7	70.7
Total	Lumens	5047.0	750.6	5797.6
	% Fixture	87.1	12.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	1.2
10°-20°	280.7	4.8
20°-30°	570.8	9.8
30°-40°	934.5	16.1
40°-50°	1216.3	21.0
50°-60°	910.1	15.7
60°-70°	379.1	6.5
70°-80°	344.9	5.9
80°-90°	341.9	5.9
90°-100°	274.9	4.7
100°-110°	195.4	3.4
110°-120°	132.1	2.3
120°-130°	85.0	1.5
130°-140°	50.3	0.9
140°-150°	12.2	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5047.0	87.1
0°-180°	5797.6	100.0



REPORT NUMBER: P266488

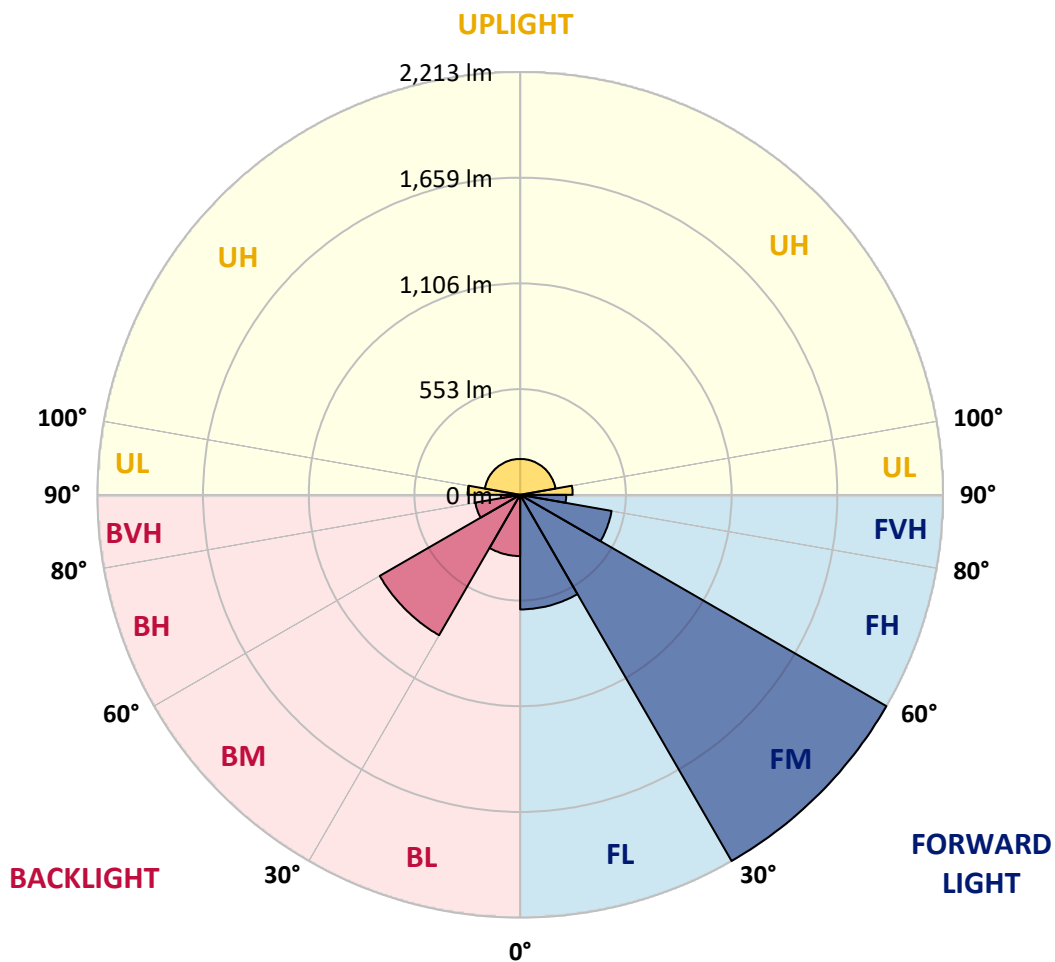
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	599.7	10.3			
FM	(30°-60°)	2212.6	38.2			
FH	(60°-80°)	485.6	8.4			G0/660
FVH	(80°-90°)	241.1	4.2			G3/500
BL	(0°-30°)	320.6	5.5	B1/500		
BM	(30°-60°)	848.3	14.6	B1/1000		
BH	(60°-80°)	238.4	4.1	B1/500		G1/500
BVH	(80°-90°)	100.8	1.7			G2/225
UL	(90°-100°)	274.9	4.7		U3/500	
UH	(100°-180°)	187.7	3.2		U3/500	

BUG Rating: B1-U3-G3

Type II Short





REPORT NUMBER: P266488

CATALOG NUMBER: UTLD-AF24-80-D-U-T4W-A-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
0°	642.1	642.1	642.1	642.1	642.1	642.1	642.1	642.1	642.1	642.1	642.1
2.5°	690.3	687.1	688.6	688.6	684.6	683.0	678.9	674.2	667.8	660.6	654.1
5°	758.3	756.0	755.1	754.3	753.6	743.2	731.1	720.7	709.5	697.4	680.6
7.5°	884.2	883.5	878.6	873.1	865.0	847.3	825.7	815.3	800.1	781.6	756.0
10°	1041.3	1030.1	1019.8	1019.8	1003.6	997.3	990.9	975.6	965.9	940.3	903.4
12.5°	1131.1	1125.5	1147.1	1145.6	1166.4	1204.1	1216.9	1229.8	1171.2	1096.7	1027.8
15°	1215.3	1215.3	1242.5	1243.3	1305.1	1388.5	1451.8	1390.0	1282.7	1162.3	1070.2
17.5°	1330.7	1337.9	1377.2	1403.7	1487.1	1630.7	1587.2	1473.5	1313.1	1169.7	1066.2
20°	1381.2	1397.4	1457.4	1491.8	1620.9	1756.5	1714.8	1580.8	1394.9	1231.3	1127.2
22.5°	1412.6	1423.8	1494.3	1543.2	1708.3	1823.0	1816.6	1681.1	1505.5	1301.1	1180.8
25°	1540.9	1548.0	1628.2	1678.8	1853.5	1890.4	1817.5	1723.6	1551.3	1338.7	1233.0
27.5°	1584.2	1584.9	1708.3	1784.6	1928.0	1915.1	1820.5	1781.2	1693.9	1526.4	1455.1
30°	1642.6	1641.1	1793.3	1875.1	1962.4	1908.0	1831.9	1866.3	1871.9	1735.6	1605.7
32.5°	1714.8	1708.3	1890.4	1988.0	2016.2	1906.4	1850.2	1908.8	1993.8	1852.7	1713.2
35°	1781.2	1786.9	1982.5	2049.0	2075.5	1915.9	1859.9	1988.0	2160.5	2051.5	1817.5
37.5°	2209.4	2203.0	2264.6	2288.0	2221.4	1948.9	1896.7	2086.8	2339.2	2291.9	2040.9
40°	2306.4	2284.7	2469.1	2482.7	2365.6	2065.2	1997.7	2146.1	2480.3	2564.5	2364.9
42.5°	2224.7	2219.1	2420.3	2438.7	2354.5	2143.6	2064.2	2194.2	2496.4	2565.3	2233.5
45°	2584.6	2554.9	2659.9	2638.3	2405.0	2109.9	2023.4	2140.4	2441.1	2634.3	2371.3
46°	2543.7	2506.0	2638.3	2665.5	2453.1	2093.1	1982.5	2045.8	2385.8	2623.1	2373.0
47.5°	2418.6	2421.8	2598.2	2599.8	2404.3	2095.6	1915.1	1988.9	2262.3	2479.5	2146.1
50°	2111.6	2075.5	2397.8	2408.1	2221.4	2004.9	1846.2	1880.0	2140.4	2273.5	1934.4
52.5°	2033.0	2004.9	2195.0	2193.3	2025.0	1867.0	1720.3	1755.6	2049.8	2201.3	1959.3
55°	1867.8	1858.2	2017.9	2004.2	1886.4	1697.1	1592.1	1613.7	1700.3	1641.1	976.5
57.5°	1241.0	1277.8	1553.6	1580.1	1580.8	1491.8	1360.5	1160.8	1004.5	854.6	477.8
60°	506.6	549.1	856.2	896.2	954.8	1118.3	986.1	776.0	648.5	674.2	412.9
62.5°	382.4	398.4	571.6	578.8	601.2	680.6	672.7	562.8	554.0	610.0	395.3
65°	356.0	370.5	506.6	504.3	493.8	515.4	513.9	488.1	497.8	568.4	393.5
67.5°	336.8	351.1	470.6	471.4	462.5	466.6	469.8	457.0	479.3	552.4	404.1
70°	317.5	332.7	433.0	435.3	441.7	456.2	461.8	452.1	472.1	532.2	403.2
72.5°	294.3	311.1	397.6	401.6	414.5	447.4	466.6	464.2	466.6	502.6	401.6
75°	286.2	303.0	367.9	375.2	393.5	443.4	493.0	477.0	461.0	483.4	392.0
77.5°	250.9	270.2	336.8	352.8	393.5	456.2	510.6	505.0	475.5	470.6	381.6
80°	241.4	259.7	323.8	341.5	385.6	467.4	528.4	529.1	513.9	488.1	392.0
82.5°	242.9	260.6	327.2	347.1	397.6	475.5	513.9	534.0	535.5	503.4	404.1
85°	285.4	302.2	365.6	386.5	430.5	473.0	502.6	517.1	531.4	531.4	443.4
87.5°	304.6	319.8	367.9	386.5	428.9	478.5	473.8	497.8	512.3	530.7	457.0
90°	322.2	332.0	381.6	399.2	421.7	461.8	449.0	441.7	453.7	473.0	428.1
92.5°	335.1	344.0	388.0	403.2	422.5	431.2	412.1	391.2	420.9	436.0	398.4
95°	358.3	366.4	389.7	395.3	392.7	400.9	371.2	363.2	376.0	392.7	368.8
97.5°	342.3	348.0	370.5	376.7	375.2	363.2	333.5	328.7	339.9	352.8	326.3
100°	342.3	349.5	366.4	370.5	360.8	330.2	299.9	298.1	305.5	311.8	287.0
102.5°	349.5	352.8	356.0	358.3	340.6	307.0	284.7	279.0	281.3	284.7	262.1
105°	331.0	332.0	333.5	326.3	311.8	286.2	263.7	254.1	262.1	271.7	253.3
107.5°	286.2	285.4	286.2	283.8	282.2	266.9	250.9	238.9	238.9	242.2	224.4



REPORT NUMBER: P266488

CATALOG NUMBER: UTLD-AF24-80-D-U-T4W-A-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
110°	266.9	267.8	266.9	266.9	259.7	249.3	234.1	221.3	214.9	216.4	200.4
112.5°	244.5	244.5	245.2	246.1	242.2	232.5	217.3	204.5	196.4	194.8	179.7
115°	244.5	242.2	234.8	234.1	226.1	212.4	201.2	185.2	179.7	179.7	170.0
117.5°	218.1	216.4	210.8	209.2	204.5	193.1	186.8	173.9	170.0	167.5	158.7
120°	193.1	193.1	190.8	190.0	185.2	178.8	165.2	160.3	157.2	160.3	154.7
122.5°	179.7	179.7	175.6	173.9	168.3	163.5	151.5	142.7	137.1	143.5	140.2
125°	165.2	164.3	158.7	157.9	148.3	148.3	141.9	130.7	115.4	121.9	120.3
127.5°	145.0	144.3	137.1	136.4	130.7	137.1	135.5	121.0	100.3	104.3	104.3
130°	139.4	137.9	131.5	129.8	124.2	122.7	129.0	105.8	93.9	97.7	96.9
132.5°	139.4	137.9	129.8	127.5	118.7	109.9	116.2	92.2	89.8	94.6	93.9
135°	125.9	125.9	118.7	113.8	105.0	89.0	90.5	71.3	78.5	85.8	85.8
137.5°	106.5	106.5	99.4	97.7	87.3	71.3	64.0	54.4	66.6	74.6	75.4
140°	83.4	83.4	77.8	74.6	67.4	47.3	29.6	33.6	50.6	57.8	60.1
142.5°	60.1	59.3	54.4	50.6	43.3	25.6	9.6	19.3	29.6	39.3	42.5
145°	41.7	41.0	35.3	32.9	26.5	12.0	2.4	8.1	17.6	23.3	27.3
147.5°	24.9	24.9	20.8	20.0	13.7	3.2	1.5	2.4	8.9	14.5	16.9
150°	14.5	14.5	10.4	8.1	3.2	0.8	0.8	0.8	2.4	6.4	8.1
152.5°	3.2	3.2	2.4	1.5	1.5	0.8	0.0	0.8	0.8	0.8	1.5
155°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
162.5°	0.8	0.8	0.0	0.0	0.8	0.0	0.8	0.0	0.8	0.8	0.8
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: P266488

CATALOG NUMBER: UTLD-AF24-80-D-U-T4W-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	642.1	642.1	642.1	642.1	642.1	642.1	642.1	642.1	642.1	642.1	642.1
2.5°	650.9	647.8	640.5	631.7	625.3	619.7	615.7	613.3	611.7	607.7	609.3
5°	674.9	668.6	651.8	638.2	623.8	610.8	601.2	594.9	592.4	589.2	589.2
7.5°	743.9	728.7	703.1	671.0	641.3	615.7	591.7	578.0	566.0	559.6	557.9
10°	879.4	859.4	804.1	738.3	673.4	615.7	569.2	535.5	519.5	513.9	513.9
12.5°	991.6	960.4	888.2	814.6	727.8	637.3	568.4	522.6	501.1	493.8	493.8
15°	1025.3	984.5	899.5	827.2	749.5	673.4	609.3	543.6	504.3	492.2	488.1
17.5°	1014.9	974.8	897.9	810.5	723.0	666.3	609.3	573.9	537.9	517.1	513.9
20°	1081.4	1044.5	964.4	866.5	759.2	631.7	595.7	587.6	578.8	565.2	565.2
22.5°	1136.7	1102.3	1022.1	917.1	788.1	704.7	650.9	642.9	633.3	630.9	629.4
25°	1179.3	1142.4	1032.5	911.5	817.6	756.7	687.8	660.6	637.3	630.2	627.6
27.5°	1406.0	1349.3	1172.8	1001.3	866.5	774.3	695.1	659.7	638.2	629.4	634.9
30°	1539.2	1477.4	1284.2	1059.0	925.2	812.8	709.5	667.8	673.4	680.6	686.2
32.5°	1641.1	1560.0	1333.2	1066.2	915.6	820.2	732.7	683.0	667.0	676.7	678.2
35°	1741.3	1642.6	1396.4	1111.9	928.3	793.7	716.7	687.8	683.0	695.8	693.4
37.5°	1944.8	1815.7	1475.0	1124.8	916.4	762.4	689.4	658.9	634.2	630.9	634.9
40°	2211.0	2037.8	1553.6	1119.1	860.1	724.8	655.0	620.5	601.2	589.2	582.0
42.5°	2077.9	1904.0	1452.6	1074.3	792.0	657.4	619.7	589.2	564.3	549.1	545.1
45°	2223.8	2053.9	1478.3	983.6	714.3	597.3	566.8	545.9	511.5	497.0	494.6
46°	2179.7	1987.3	1449.4	955.5	676.7	571.6	545.9	524.3	498.6	478.5	477.0
47.5°	2019.4	1795.0	1364.4	880.2	650.9	529.1	511.5	498.6	485.1	461.8	458.6
50°	1802.1	1630.7	1211.4	782.5	548.3	472.1	457.0	452.9	437.7	409.6	412.1
52.5°	1785.3	1619.4	1127.9	719.9	486.6	413.7	408.9	396.8	383.9	359.1	358.3
55°	860.9	731.8	626.1	563.5	407.2	366.4	364.0	358.3	342.3	319.8	323.8
57.5°	408.0	355.1	307.0	325.5	319.8	321.5	323.1	322.2	303.8	273.4	279.8
60°	357.5	310.3	265.4	251.7	264.6	284.7	284.7	272.5	246.9	210.8	207.6
62.5°	344.7	297.3	256.6	238.1	244.5	256.6	250.1	230.9	205.3	172.4	170.8
65°	346.3	295.8	255.7	232.5	238.1	242.9	230.9	215.7	201.9	178.8	178.8
67.5°	353.6	302.2	258.9	230.1	234.1	237.3	226.1	214.9	206.8	189.3	190.8
70°	355.1	306.2	262.1	230.9	230.1	233.3	225.2	214.9	210.8	198.9	197.9
72.5°	355.1	309.5	258.9	225.2	223.7	225.2	220.4	214.9	214.1	206.8	205.3
75°	343.2	302.2	247.8	214.1	212.4	214.1	212.4	211.6	214.9	211.6	208.4
77.5°	331.0	295.1	239.7	205.3	202.7	201.9	201.2	201.9	206.8	204.5	199.7
80°	336.8	298.1	238.1	197.9	190.8	187.6	187.6	188.4	188.4	181.2	173.9
82.5°	346.3	303.8	230.1	184.4	172.4	166.7	168.3	173.9	176.3	170.8	165.2
85°	381.6	329.5	231.8	174.8	157.2	150.7	153.2	160.3	155.5	147.5	141.2
87.5°	396.8	338.3	226.9	160.3	146.0	143.5	143.5	147.5	144.3	131.5	125.9
90°	379.2	323.8	205.3	136.4	126.8	129.0	129.8	125.9	112.3	97.7	93.0
92.5°	355.1	303.0	190.0	125.0	112.3	111.4	110.6	108.2	97.7	81.7	78.5
95°	335.1	285.4	175.6	114.7	102.5	100.3	99.4	96.2	86.5	74.6	72.9
97.5°	291.8	249.3	159.4	105.8	92.2	90.5	89.8	85.8	77.0	68.1	67.4
100°	262.1	222.2	142.7	95.4	83.4	80.9	80.2	77.8	70.5	64.0	63.3
102.5°	238.1	203.6	132.3	87.3	74.6	71.3	71.3	69.8	65.8	61.8	61.8
105°	231.8	199.7	128.3	80.2	66.6	64.9	64.0	64.0	60.9	58.5	58.5
107.5°	203.6	174.8	110.6	71.3	60.1	58.5	58.5	58.5	57.8	57.0	57.8



REPORT NUMBER: P266488

CATALOG NUMBER: UTLD-AF24-80-D-U-T4W-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	183.6	157.9	101.8	66.6	56.1	53.7	53.7	53.7	53.7	55.3	55.3
112.5°	163.5	141.9	93.9	63.3	52.1	49.6	48.1	47.3	46.5	49.6	50.6
115°	154.7	135.5	89.8	60.1	49.6	47.3	44.0	42.5	40.1	42.5	43.3
117.5°	146.0	128.3	88.2	59.3	48.1	44.0	41.0	39.3	36.1	38.4	38.4
120°	143.5	127.5	89.8	60.1	46.5	41.0	38.4	34.5	32.9	34.5	35.3
122.5°	132.3	117.9	84.3	56.1	44.0	39.3	36.1	29.6	28.8	31.4	31.4
125°	112.3	101.0	72.9	50.6	41.7	38.4	35.3	26.5	27.3	28.8	29.6
127.5°	98.6	89.0	66.6	48.9	41.7	39.3	32.9	23.3	25.6	28.0	28.8
130°	92.2	85.0	66.6	50.6	43.3	40.1	27.3	21.6	24.1	26.5	26.5
132.5°	89.8	84.3	68.1	53.7	44.8	38.4	22.5	20.0	22.5	24.1	24.1
135°	82.6	77.8	64.9	52.1	41.0	30.5	17.6	17.6	20.8	22.5	22.5
137.5°	72.9	68.9	58.5	48.1	36.1	23.3	12.8	15.2	17.6	19.3	19.3
140°	58.5	56.1	48.1	37.6	25.6	12.8	9.6	12.0	14.5	16.0	16.0
142.5°	41.7	40.1	33.6	24.1	15.2	5.6	6.4	8.9	11.1	12.8	12.8
145°	27.3	25.6	20.8	15.2	6.4	1.5	4.0	6.4	8.9	9.6	9.6
147.5°	16.9	16.0	12.8	7.2	2.4	1.5	1.5	4.9	6.4	7.2	7.2
150°	8.9	8.1	5.6	2.4	0.8	0.8	0.8	1.5	4.0	4.9	5.6
152.5°	2.4	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	1.5	2.4
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	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	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.8	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

(END OF REPORT)