

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: P266508

Luminaire Tested: **UTLD-AF24-90-D-U-T2U-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-18)
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-T2U-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6459.1 lumens
Efficiency: N/A
Efficacy: 68.7 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: B2 - U4 - G2

Input Watts (W): 94
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

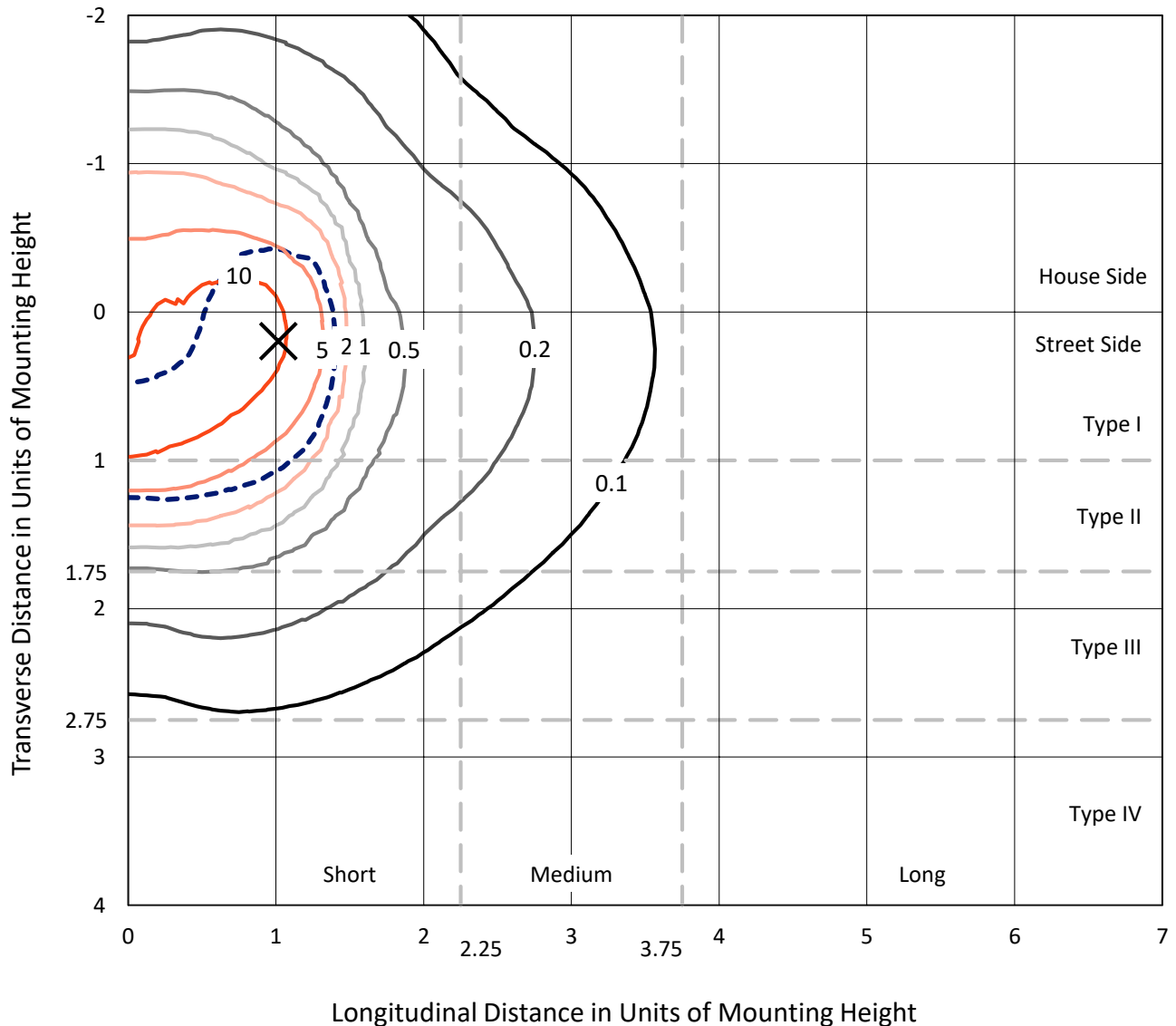


REPORT NUMBER: P266508

CATALOG NUMBER: UTLD-AF24-90-D-U-T2U-A-7027

Iso-Footcandle Lines of Horizontal Illumination

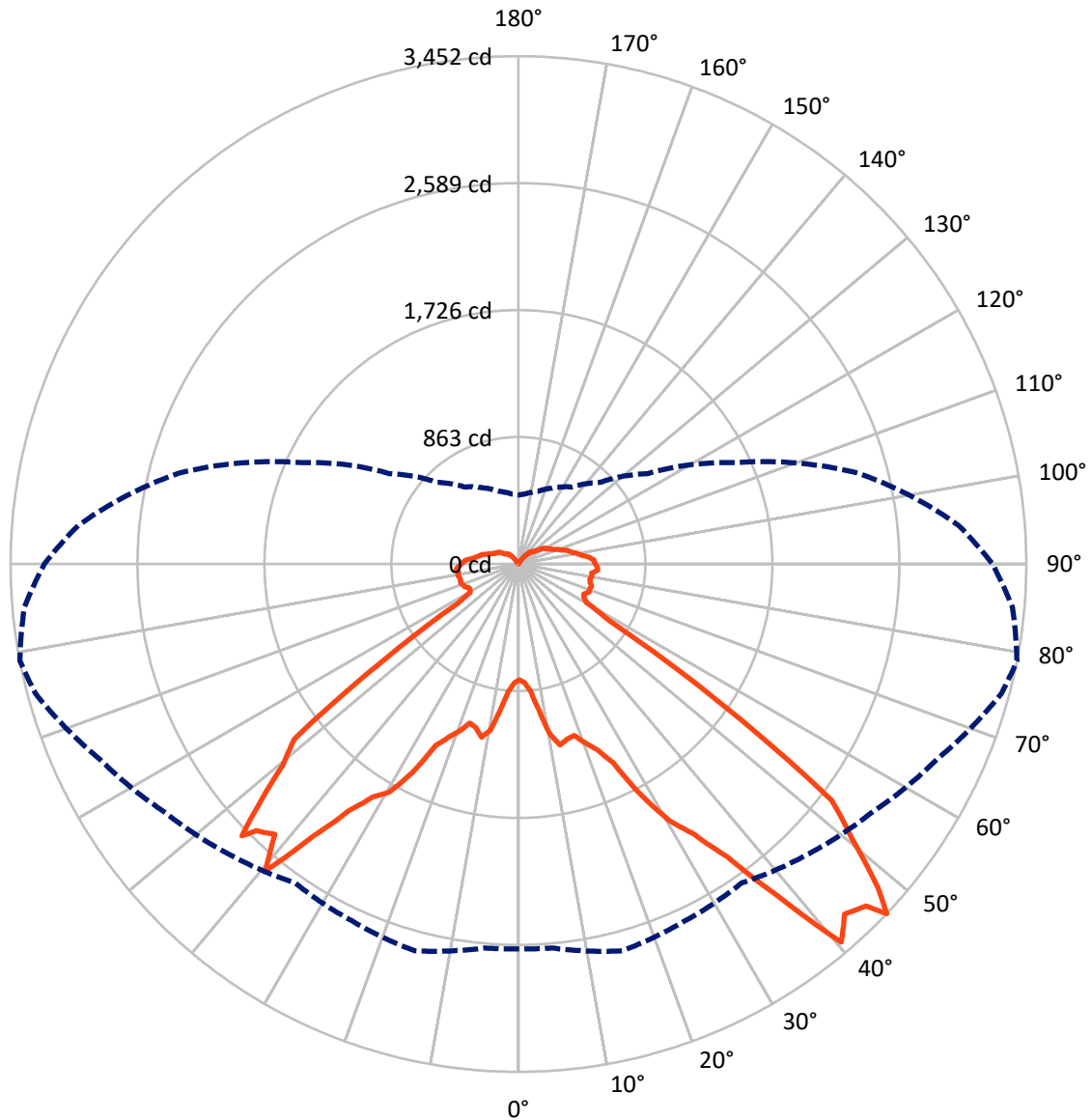
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P266508
CATALOG NUMBER: UTLD-AF24-90-D-U-T2U-A-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 46-Deg Vertical

REPORT NUMBER: P266508

CATALOG NUMBER: UTLD-AF24-90-D-U-T2U-A-7027

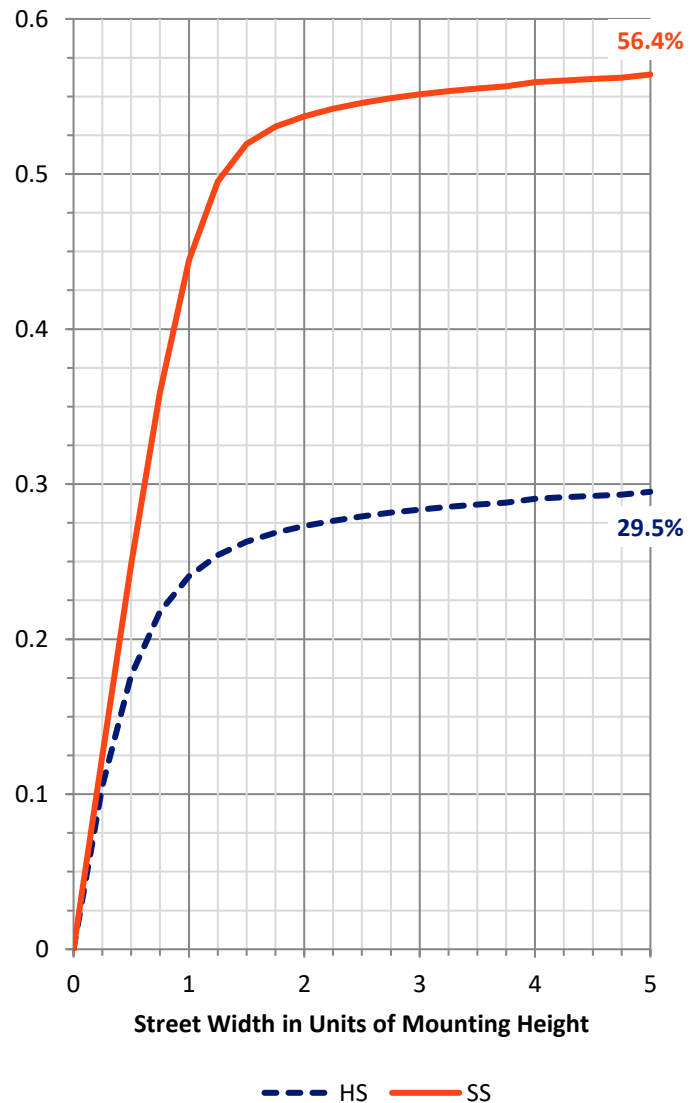
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1968.9	244.9	2213.8
	% Fixture	30.5	3.8	34.3
Street Side	Lumens	3714.1	531.3	4245.4
	% Fixture	57.5	8.2	65.7
Total	Lumens	5683.0	776.1	6459.1
	% Fixture	88.0	12.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	1.3
10°-20°	306.9	4.8
20°-30°	620.0	9.6
30°-40°	1134.9	17.6
40°-50°	1568.4	24.3
50°-60°	1001.1	15.5
60°-70°	358.6	5.6
70°-80°	322.0	5.0
80°-90°	286.3	4.4
90°-100°	262.7	4.1
100°-110°	204.2	3.2
110°-120°	141.7	2.2
120°-130°	94.9	1.5
130°-140°	56.9	0.9
140°-150°	15.1	0.2
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5683.0	88.0
0°-180°	6459.1	100.0

Coefficient of Utilization



REPORT NUMBER: P266508

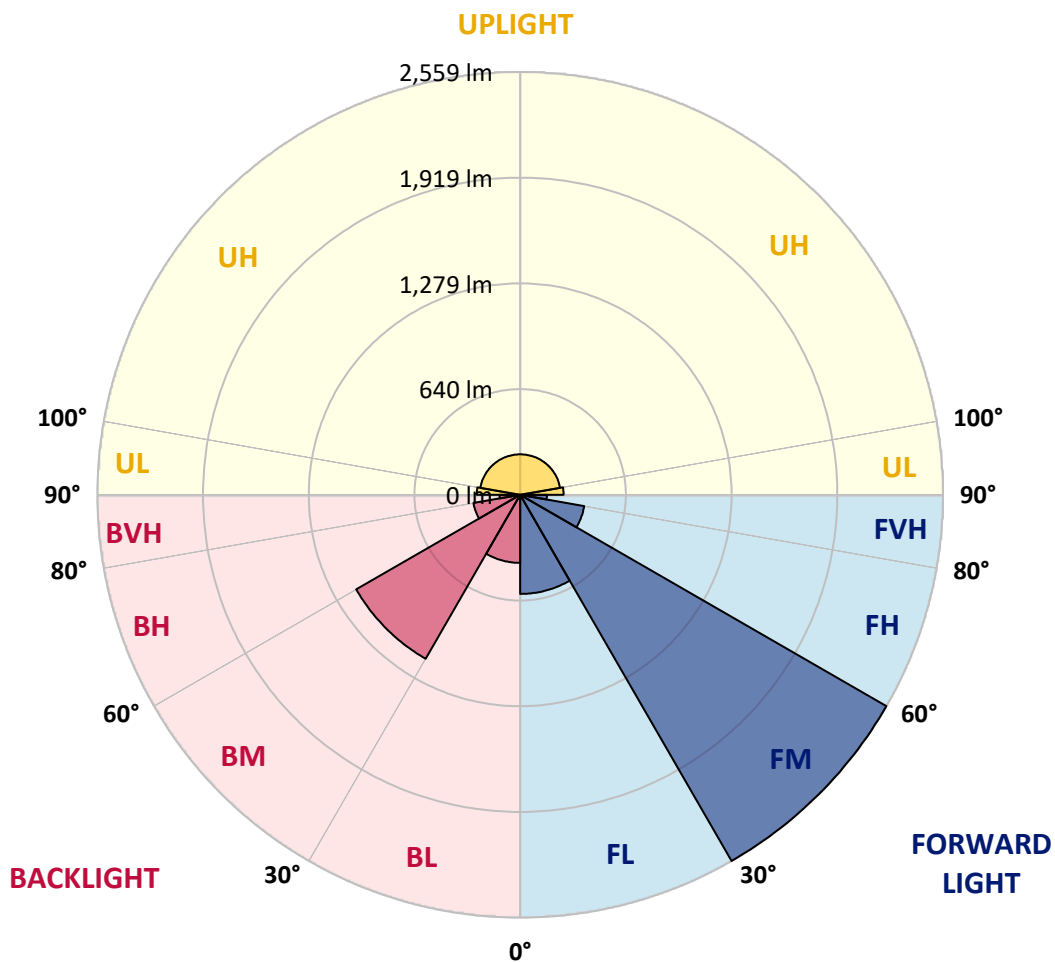
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	599.9	9.3			
FM (30°-60°)	2558.9	39.6			
FH (60°-80°)	393.6	6.1			G0/660
FVH (80°-90°)	161.7	2.5			G2/225
BL (0°-30°)	411.8	6.4	B1/500		
BM (30°-60°)	1145.5	17.7	B2/2500		
BH (60°-80°)	287.0	4.4	B1/500		G1/500
BVH (80°-90°)	124.6	1.9			G2/225
UL (90°-100°)	262.7	4.1		U3/500	
UH (100°-180°)	244.9	3.8		U3/500	

BUG Rating: B2-U4-G2

Type II Short





REPORT NUMBER: P266508

CATALOG NUMBER: UTLD-AF24-90-D-U-T2U-A-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	800.2	802.8	801.9	800.2	803.8	805.4	805.4	804.6	805.4	807.1	810.6
5°	838.4	837.5	840.2	847.0	856.7	859.1	867.0	865.2	869.6	869.6	874.8
7.5°	905.1	906.0	914.7	921.7	932.0	954.5	976.3	1004.8	1003.9	1002.2	1009.2
10°	974.5	974.5	991.9	1017.1	1059.6	1107.2	1127.9	1153.2	1179.1	1174.9	1167.8
12.5°	996.2	999.6	1029.9	1092.3	1184.3	1265.8	1307.5	1302.3	1276.2	1261.5	1238.0
15°	1036.0	1040.3	1073.4	1168.8	1278.0	1350.8	1366.4	1302.3	1245.9	1235.4	1215.5
17.5°	1186.0	1186.0	1219.9	1307.5	1389.8	1373.2	1311.7	1281.4	1245.1	1225.1	1196.5
20°	1290.1	1296.2	1350.0	1411.4	1456.5	1402.9	1403.7	1347.3	1310.1	1298.0	1271.0
22.5°	1390.7	1399.3	1414.9	1511.2	1524.2	1534.6	1503.4	1452.2	1389.8	1369.8	1342.1
25°	1604.0	1606.6	1623.0	1669.1	1634.2	1616.9	1571.9	1530.3	1506.0	1495.6	1466.2
27.5°	1857.2	1849.3	1856.3	1859.8	1806.9	1759.2	1693.2	1737.4	1772.1	1781.7	1755.6
30°	1909.2	1896.1	1949.1	2005.3	1979.3	1922.2	1917.8	1970.7	2035.6	2023.6	1987.2
32.5°	2118.9	2099.0	2123.2	2129.3	2125.0	2108.5	2101.7	2168.4	2215.2	2188.4	2135.5
35°	2288.1	2287.2	2201.2	2221.2	2233.4	2271.5	2309.7	2400.7	2442.3	2444.1	2399.8
37.5°	2649.6	2623.5	2591.5	2464.9	2398.1	2415.5	2547.2	2708.5	2802.2	2863.6	2793.5
40°	2773.5	2784.7	2757.9	2744.1	2646.9	2606.3	2757.9	3035.4	3289.5	3379.6	3370.9
42.5°	2569.8	2595.8	2580.2	2676.4	2753.6	2805.5	2988.5	3226.2	3274.6	3251.2	3127.3
45°	2739.7	2739.7	2698.1	2638.3	2665.1	2834.2	2979.0	3139.3	3291.1	3315.5	3247.0
46°	2616.7	2619.2	2721.5	2676.4	2646.0	2786.5	2937.4	3139.3	3398.6	3451.5	3370.9
47.5°	2389.4	2385.1	2573.3	2587.9	2608.8	2724.1	2889.7	3138.6	3285.0	3288.5	3187.9
50°	1893.5	1901.4	2159.6	2296.6	2433.7	2547.2	2770.9	2911.3	2944.4	2938.3	2829.0
52.5°	1537.2	1558.0	1695.0	1867.5	2033.1	2251.6	2511.8	2642.6	2714.6	2666.9	2566.3
55°	1065.5	1110.7	1283.1	1438.4	1681.1	1890.9	2115.5	2127.6	1799.0	1649.0	1462.6
57.5°	658.9	667.6	820.2	1039.5	1221.7	1386.4	1388.9	1079.5	840.2	730.1	607.0
60°	365.9	373.6	508.9	671.0	848.8	868.8	776.0	624.2	560.1	531.4	488.0
62.5°	272.2	278.4	366.8	466.4	537.5	566.1	521.0	510.6	511.6	498.5	470.0
65°	245.3	248.8	321.7	372.0	413.6	419.6	436.0	472.5	492.5	489.8	477.7
67.5°	222.8	227.1	293.0	329.5	354.7	384.0	397.9	454.4	508.0	516.7	505.4
70°	198.5	205.5	264.5	302.5	331.1	359.9	387.6	457.7	501.2	513.2	508.0
72.5°	171.7	180.3	229.7	269.6	301.7	332.9	380.6	440.3	499.4	521.0	524.5
75°	150.8	162.1	202.8	238.4	272.2	309.6	359.9	434.4	489.8	503.7	510.6
77.5°	136.2	148.3	179.5	212.4	244.5	285.2	343.3	432.7	480.4	496.0	508.0
80°	124.9	137.0	163.0	189.1	216.0	261.9	325.9	430.0	489.8	506.4	513.2
82.5°	116.2	127.5	149.9	173.5	195.1	236.8	313.9	425.6	487.2	501.2	504.6
85°	117.0	125.8	146.6	168.3	188.1	223.7	307.8	427.5	519.3	541.0	544.5
87.5°	123.1	129.1	150.8	176.0	198.5	234.9	319.1	424.0	515.8	535.7	544.5
90°	133.5	138.7	164.7	194.3	221.2	254.8	316.5	414.4	501.2	519.3	524.5
92.5°	165.6	169.9	198.5	230.7	254.0	265.3	306.1	429.2	503.7	514.1	514.1
95°	214.2	219.4	247.2	271.4	275.7	269.6	300.8	381.5	459.6	482.0	495.1
97.5°	268.0	269.6	285.2	289.6	276.6	262.8	293.9	356.4	417.1	432.7	436.0
100°	285.2	285.2	295.6	292.2	267.1	247.9	266.2	324.3	383.1	400.6	405.8
102.5°	288.7	290.4	300.8	289.6	255.7	224.5	236.8	292.2	346.7	365.9	376.3
105°	306.1	307.0	300.8	273.2	231.6	203.7	214.2	269.6	327.7	345.9	357.2
107.5°	286.1	283.5	267.1	241.0	213.3	193.3	205.5	246.2	290.4	305.2	313.0



REPORT NUMBER: P266508

CATALOG NUMBER: UTLD-AF24-90-D-U-T2U-A-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	236.8	234.9	228.9	219.4	201.9	187.2	195.1	232.3	274.8	286.1	293.0
112.5°	228.0	226.4	220.3	208.9	189.1	177.8	190.7	222.8	248.8	254.0	254.8
115°	219.4	217.6	203.7	190.7	175.1	169.9	178.7	208.0	232.3	238.4	243.6
117.5°	189.1	187.2	176.8	169.2	163.0	165.6	180.3	196.8	214.2	219.4	222.8
120°	168.3	167.4	162.1	156.9	153.5	155.1	170.8	189.1	206.3	211.6	214.2
122.5°	158.7	157.8	151.8	143.9	143.9	143.9	156.0	169.9	189.1	193.3	199.5
125°	139.5	139.5	133.5	127.5	136.2	139.5	142.2	143.1	157.8	164.7	167.4
127.5°	124.0	124.9	119.7	115.3	131.0	138.7	137.0	125.8	134.3	139.5	143.1
130°	122.3	122.3	116.2	111.0	118.8	134.3	129.1	117.9	128.3	131.8	133.5
132.5°	118.8	118.8	112.6	104.9	106.7	124.0	112.6	110.1	119.7	123.1	124.0
135°	109.2	109.2	104.9	94.5	87.6	104.9	91.1	96.3	105.8	108.3	109.2
137.5°	97.0	97.0	92.7	84.1	69.3	79.0	70.2	81.4	91.1	93.7	94.5
140°	79.8	79.0	76.3	65.8	50.2	44.2	47.7	65.0	74.6	76.3	79.0
142.5°	59.0	59.8	55.4	46.8	30.4	16.4	27.8	41.6	52.0	54.6	56.4
145°	43.4	42.5	38.2	30.4	16.4	2.6	13.0	26.1	33.0	35.6	37.3
147.5°	28.7	28.7	25.2	18.2	5.2	0.9	3.5	13.0	20.8	22.5	23.4
150°	19.0	19.0	13.8	5.2	0.9	0.9	0.9	2.6	8.7	10.4	12.1
152.5°	6.1	6.1	2.6	1.7	0.9	0.0	0.0	0.9	1.7	1.7	2.6
155°	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9
157.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.9	0.9	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



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CATALOG NUMBER: UTLD-AF24-90-D-U-T2U-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	811.4	810.6	808.0	805.4	798.6	789.8	781.2	775.1	771.6	768.9	768.2
5°	873.1	874.8	862.6	842.7	823.7	806.3	789.8	774.2	765.5	758.6	756.1
7.5°	1003.9	1006.6	982.2	951.0	902.5	843.6	793.4	759.4	735.3	720.5	717.8
10°	1166.1	1159.2	1130.5	1063.9	975.4	884.3	789.8	716.9	678.0	659.7	658.9
12.5°	1232.0	1222.5	1190.4	1134.9	1042.2	923.4	806.3	710.1	652.0	628.5	627.7
15°	1201.7	1185.3	1126.3	1075.1	1038.7	972.8	867.9	757.8	678.0	648.5	640.8
17.5°	1175.6	1159.2	1109.8	1036.0	967.6	939.0	887.9	796.7	713.6	671.9	663.3
20°	1252.0	1241.5	1180.1	1082.0	1006.6	892.1	850.5	788.2	725.7	699.7	692.8
22.5°	1322.1	1316.9	1239.8	1137.6	1036.0	956.2	873.1	827.1	766.4	748.2	740.5
25°	1453.1	1428.8	1302.3	1164.4	1076.8	998.7	892.1	820.2	746.5	723.0	718.7
27.5°	1760.9	1704.5	1519.8	1312.7	1136.6	1012.7	890.4	784.6	704.0	674.5	672.8
30°	1956.8	1905.7	1697.5	1469.5	1230.3	1045.5	879.1	751.7	690.9	662.4	663.3
32.5°	2075.7	2007.2	1773.1	1484.3	1252.0	1062.1	886.1	740.5	658.9	622.5	621.6
35°	2333.1	2237.7	1897.8	1603.0	1294.5	1037.8	856.7	716.9	641.6	614.7	611.2
37.5°	2699.9	2592.2	2131.9	1699.4	1311.7	1005.7	818.4	690.2	600.0	562.7	560.1
40°	3229.5	3071.8	2456.2	1815.6	1298.0	981.5	776.9	649.4	574.8	550.5	542.8
42.5°	2966.9	2788.2	2262.9	1792.9	1263.2	914.7	737.0	629.4	560.1	541.0	530.5
45°	3130.8	2922.6	2286.2	1667.3	1130.5	815.8	669.3	589.6	520.2	493.3	490.7
46°	3221.9	3004.1	2387.8	1629.0	1069.9	784.6	639.0	571.3	511.6	476.8	469.0
47.5°	3024.1	2782.2	2195.3	1554.5	1021.4	714.4	599.1	542.8	502.1	470.0	464.8
50°	2652.2	2415.5	1898.7	1325.7	879.1	630.3	534.0	500.3	459.6	424.8	418.8
52.5°	2420.7	2222.0	1738.3	1202.6	746.5	531.4	476.8	447.4	405.8	365.0	359.9
55°	1330.8	1193.8	1074.3	903.4	619.0	449.2	415.2	397.9	355.5	315.6	313.0
57.5°	548.0	492.5	488.0	460.4	425.6	377.9	359.0	348.5	306.1	257.5	255.7
60°	461.2	411.0	362.3	319.1	316.5	315.6	309.6	291.3	244.5	194.3	192.4
62.5°	449.2	399.7	352.0	299.1	276.6	283.5	272.2	249.6	214.2	165.6	163.9
65°	457.7	406.7	350.2	290.4	266.2	268.8	256.6	239.3	215.1	180.3	178.7
67.5°	487.2	434.4	371.1	287.0	257.5	262.8	254.0	241.0	227.1	205.5	201.1
70°	491.6	444.8	372.0	288.7	247.9	254.0	251.4	240.1	230.7	211.6	208.9
72.5°	504.6	462.1	379.8	282.6	237.5	240.1	243.6	240.1	234.1	222.8	218.5
75°	492.5	455.3	376.3	277.4	227.1	225.5	234.1	238.4	240.1	235.9	230.7
77.5°	489.8	458.7	377.2	274.0	217.6	210.7	217.6	224.5	228.0	223.7	219.4
80°	493.3	466.4	388.3	274.8	207.1	189.9	193.3	201.1	201.9	194.3	188.1
82.5°	485.5	459.6	376.3	265.3	190.7	169.2	169.9	177.8	178.7	169.2	162.1
85°	520.2	488.9	385.0	253.1	173.5	154.2	155.1	158.7	153.5	143.1	136.2
87.5°	519.3	482.0	367.5	234.1	162.1	145.6	144.7	143.9	135.3	123.1	117.0
90°	501.2	462.1	344.2	206.3	143.1	133.5	131.0	125.8	113.5	99.7	95.4
92.5°	488.9	447.4	328.6	195.1	125.8	117.0	115.3	110.1	97.9	83.3	80.7
95°	476.0	435.1	302.5	170.8	111.0	102.2	99.7	94.5	85.0	72.9	71.1
97.5°	419.6	379.8	267.1	155.1	98.9	89.3	87.6	83.3	75.5	66.7	65.8
100°	387.6	352.0	247.9	142.2	88.5	78.1	77.2	74.6	69.3	63.3	62.4
102.5°	362.3	327.7	229.7	131.8	79.0	69.3	68.5	67.6	65.0	60.6	60.6
105°	343.3	310.4	220.3	123.1	71.1	63.3	62.4	62.4	59.8	57.2	57.2
107.5°	299.1	271.4	191.6	109.2	65.0	58.1	58.1	58.1	56.4	54.6	55.4



REPORT NUMBER: P266508

CATALOG NUMBER: UTLD-AF24-90-D-U-T2U-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	281.8	255.7	182.0	102.2	62.4	53.8	52.9	52.9	52.0	52.9	52.9
112.5°	242.7	220.3	160.3	97.9	60.6	51.2	48.6	46.8	45.0	46.8	47.7
115°	233.2	212.4	155.1	94.5	59.0	49.4	46.0	43.4	39.9	42.5	42.5
117.5°	214.2	195.1	143.9	91.8	59.0	46.8	43.4	40.8	37.3	39.0	39.0
120°	205.5	189.1	144.7	94.5	59.8	44.2	40.8	36.4	33.9	36.4	36.4
122.5°	193.3	178.7	136.2	89.3	57.2	43.4	39.9	31.3	29.5	32.1	32.1
125°	162.1	149.9	117.0	79.0	54.6	43.4	39.0	27.8	27.8	29.5	30.4
127.5°	137.9	128.3	101.5	73.8	55.4	46.0	37.3	24.3	26.1	28.7	28.7
130°	130.1	122.3	100.6	75.5	58.1	48.6	30.4	22.5	24.3	26.9	26.9
132.5°	121.5	114.4	97.0	77.2	59.0	46.0	25.2	20.8	22.5	24.3	24.3
135°	106.7	101.5	87.6	70.2	52.9	36.4	19.9	18.2	20.8	22.5	23.4
137.5°	93.7	89.3	77.2	63.3	47.7	31.3	13.8	16.4	18.2	19.0	19.9
140°	77.2	74.6	65.0	52.0	35.6	17.3	10.4	13.0	14.7	16.4	16.4
142.5°	56.4	54.6	46.0	33.9	21.6	6.9	6.9	9.5	11.3	13.0	13.0
145°	37.3	35.6	29.5	21.6	9.5	1.7	4.3	6.9	9.5	10.4	10.4
147.5°	23.4	22.5	18.2	11.3	3.5	1.7	1.7	5.2	6.9	7.8	7.8
150°	12.1	11.3	7.8	3.5	1.7	0.9	0.9	1.7	4.3	5.2	5.2
152.5°	2.6	2.6	1.7	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	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)