

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: P266402

Luminaire Tested: **UTLD-AF24-60-D-U-SL3-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-27)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-60-D-U-SL3-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4648.3 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 64
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



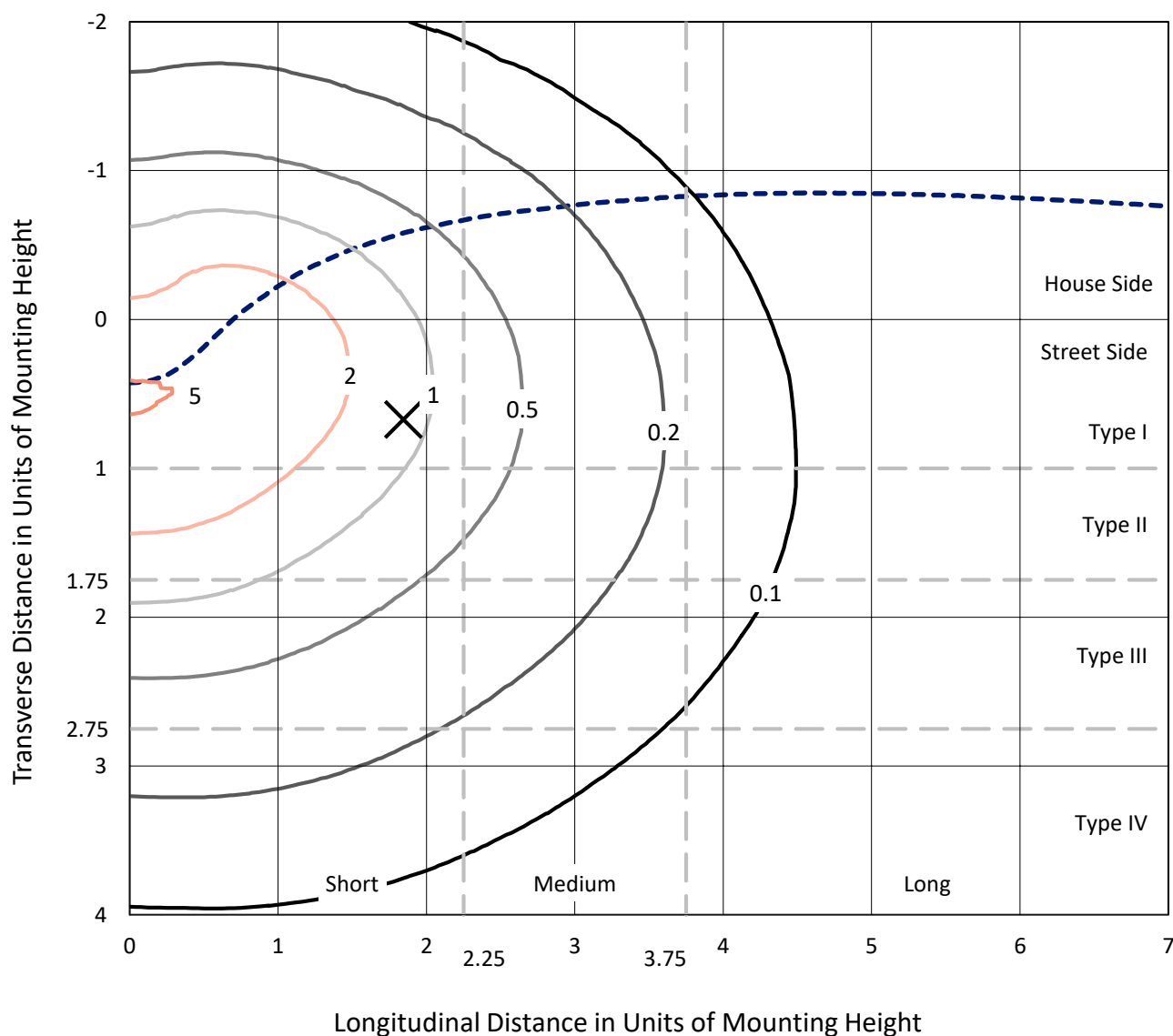
REPORT NUMBER: P266402

CATALOG NUMBER: UTLD-AF24-60-D-U-SL3-FP-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

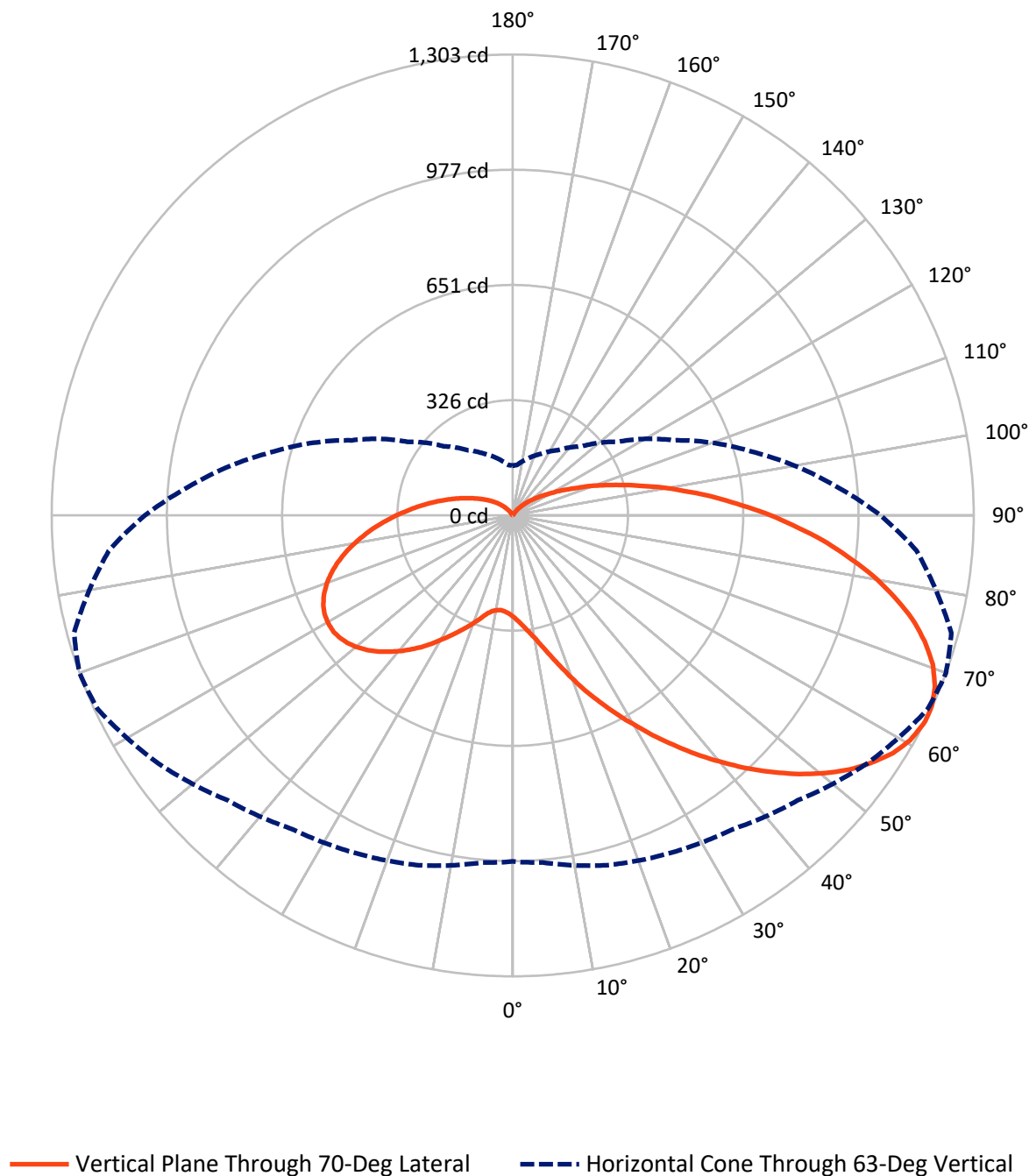


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P266402

CATALOG NUMBER: UTLD-AF24-60-D-U-SL3-FP-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266402

CATALOG NUMBER: UTLD-AF24-60-D-U-SL3-FP-7027

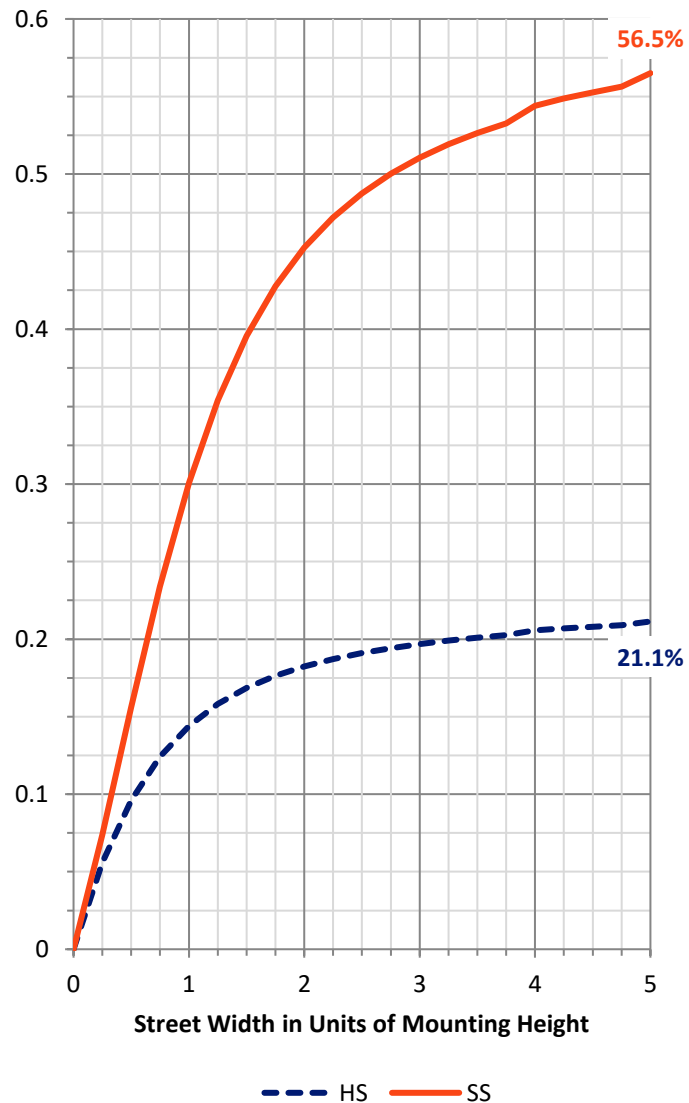
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1044.0	252.6	1296.7
	% Fixture	22.5	5.4	27.9
Street Side	Lumens	2822.0	529.6	3351.6
	% Fixture	60.7	11.4	72.1
Total	Lumens	3866.0	782.3	4648.3
	% Fixture	83.2	16.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.5	0.6
10°-20°	99.3	2.1
20°-30°	211.0	4.5
30°-40°	363.8	7.8
40°-50°	536.7	11.5
50°-60°	683.0	14.7
60°-70°	741.4	15.9
70°-80°	678.0	14.6
80°-90°	524.5	11.3
90°-100°	353.4	7.6
100°-110°	215.0	4.6
110°-120°	120.5	2.6
120°-130°	61.3	1.3
130°-140°	25.4	0.5
140°-150°	6.3	0.1
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3866.0	83.2
0°-180°	4648.3	100.0

Coefficient of Utilization



REPORT NUMBER: P266402

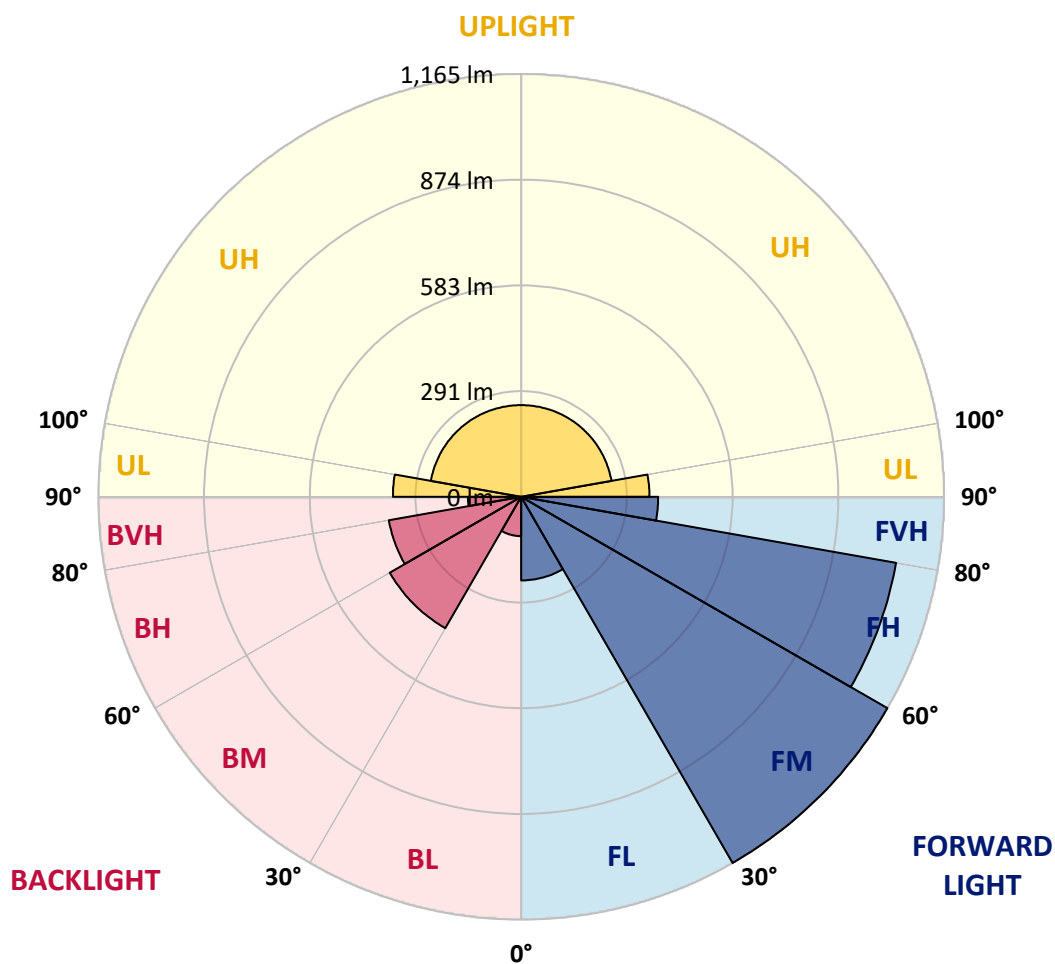
CATALOG NUMBER: UTLD-AF24-60-D-U-SL3-FP-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	230.3	5.0			
FM	(30°-60°)	1165.2	25.1			
FH	(60°-80°)	1048.9	22.6			G1/1800
FVH	(80°-90°)	377.6	8.1			G3/500
BL	(0°-30°)	108.4	2.3	B0/110		
BM	(30°-60°)	418.2	9.0	B1/1000		
BH	(60°-80°)	370.5	8.0	B1/500		G1/500
BVH	(80°-90°)	146.9	3.2			G2/225
UL	(90°-100°)	353.4	7.6		U3/500	
UH	(100°-180°)	252.6	5.4		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





REPORT NUMBER: P266402

CATALOG NUMBER: UTLD-AF24-60-D-U-SL3-FP-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	286.7	286.7	286.7	286.7	286.7	286.7	286.7	286.7	286.7	286.7	286.7
2.5°	319.6	319.1	318.4	315.2	314.0	309.6	305.8	301.3	298.9	296.4	291.2
5°	353.3	352.0	350.1	346.9	341.3	334.9	327.3	318.4	314.0	308.9	298.9
7.5°	386.2	385.6	385.0	378.5	372.8	362.7	352.0	339.3	333.0	324.7	309.6
10°	422.3	423.6	419.8	413.9	404.5	393.7	379.9	362.7	354.6	345.7	325.4
12.5°	463.4	462.7	459.7	450.1	440.0	428.0	410.9	392.5	382.9	371.0	344.9
15°	505.1	502.7	498.9	492.5	479.9	466.0	447.5	426.6	415.9	402.6	373.5
17.5°	548.9	547.0	544.5	533.8	523.0	505.8	490.7	467.8	454.5	440.0	406.5
20°	592.5	591.4	588.1	579.9	566.7	551.4	536.8	512.8	497.7	479.9	441.8
22.5°	638.8	638.2	635.0	625.5	614.7	605.2	586.9	559.6	545.1	523.5	479.2
25°	686.2	686.9	681.2	672.3	664.7	655.9	636.9	608.4	590.6	568.4	518.5
27.5°	737.6	735.1	731.2	723.0	716.7	706.4	686.9	657.7	640.8	616.6	560.9
30°	784.9	785.7	777.5	772.4	768.0	758.3	740.1	710.3	691.3	669.1	605.2
32.5°	836.3	833.7	828.1	822.9	819.9	809.7	792.7	766.7	747.7	719.8	650.2
35°	881.2	880.6	874.3	875.6	867.4	859.0	846.5	822.4	802.7	776.1	700.1
37.5°	927.5	926.2	921.8	923.0	913.5	907.2	898.9	878.2	861.7	834.3	752.2
40°	971.2	968.0	964.8	966.8	959.7	955.3	950.9	936.4	919.2	890.8	803.4
42.5°	1006.6	1005.9	1004.0	1007.2	1000.3	999.0	1001.5	994.0	978.8	949.6	855.2
45°	1037.1	1037.1	1039.5	1041.5	1035.0	1037.1	1049.7	1047.8	1035.7	1006.6	909.2
47.5°	1061.1	1060.4	1066.7	1069.3	1066.1	1073.0	1094.0	1102.8	1092.7	1065.5	959.1
50°	1075.0	1075.0	1086.4	1089.6	1090.2	1103.5	1132.7	1152.2	1145.2	1119.3	1006.6
52.5°	1078.8	1080.0	1095.8	1102.8	1105.4	1126.3	1166.1	1196.0	1193.4	1168.7	1049.7
55°	1072.4	1074.4	1095.3	1106.1	1113.5	1142.7	1192.7	1234.5	1232.7	1209.7	1085.2
57.5°	1054.7	1057.2	1083.8	1099.6	1113.5	1151.5	1212.4	1265.0	1267.4	1245.9	1115.4
60°	1026.9	1030.0	1062.3	1083.1	1104.7	1151.0	1222.5	1284.5	1290.2	1268.0	1135.7
62.5°	988.2	992.1	1029.4	1058.6	1087.7	1142.0	1223.1	1294.0	1301.6	1282.1	1145.2
63°	978.2	985.1	1023.7	1052.9	1083.1	1139.0	1222.5	1294.6	1302.9	1283.3	1145.9
65°	938.9	946.5	990.8	1025.0	1061.6	1124.4	1213.6	1291.6	1301.6	1282.6	1142.7
67.5°	883.8	894.0	940.7	982.6	1029.4	1098.4	1193.9	1275.7	1287.0	1268.6	1128.8
70°	821.1	835.1	884.4	936.4	988.2	1063.6	1163.7	1248.5	1259.2	1240.2	1101.0
72.5°	757.8	773.0	826.8	882.6	940.7	1020.6	1121.2	1207.3	1217.5	1200.9	1062.3
75°	693.9	705.3	761.0	825.5	888.9	970.4	1074.4	1154.7	1166.1	1146.4	1014.1
77.5°	626.1	642.0	699.6	764.7	832.5	919.2	1018.6	1094.6	1101.5	1081.9	952.2
80°	559.6	577.4	633.8	704.0	775.5	859.0	954.1	1028.1	1032.0	1011.0	885.6
82.5°	501.4	517.9	575.5	643.1	715.4	800.8	887.5	950.9	953.5	933.8	816.6
85°	445.1	459.7	514.6	584.3	657.1	736.3	819.3	873.1	876.1	852.8	743.8
87.5°	394.4	405.9	458.9	528.7	599.4	677.4	746.4	791.3	791.9	769.2	671.8
90°	350.7	357.6	409.5	478.0	545.1	614.7	679.3	718.6	713.4	689.4	597.1
92.5°	308.3	314.0	361.5	428.0	494.4	557.0	613.5	638.8	633.0	612.1	530.4
95°	274.2	276.7	320.3	382.9	442.5	502.1	550.1	568.4	562.8	540.7	464.7
97.5°	239.3	243.1	283.0	340.0	397.6	451.4	490.7	502.7	491.9	470.4	407.1
100°	213.3	214.7	248.2	302.5	357.0	403.9	434.9	442.5	431.1	411.6	354.6
102.5°	189.4	188.6	219.0	269.8	318.4	357.6	384.2	383.7	371.5	354.6	307.7
105°	168.4	167.8	191.2	238.1	281.7	316.6	336.1	333.6	321.7	305.2	267.8
107.5°	148.8	150.0	167.2	208.2	247.6	278.6	293.0	287.4	276.7	261.4	232.3



REPORT NUMBER: P266402

CATALOG NUMBER: UTLD-AF24-60-D-U-SL3-FP-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	134.1	134.1	147.5	183.0	219.0	244.3	255.7	247.6	237.4	222.2	200.7
112.5°	120.9	120.9	130.4	159.4	192.4	215.2	222.8	212.1	200.1	189.9	174.1
115°	108.9	108.9	115.3	138.7	167.8	186.8	191.2	179.8	169.7	162.1	152.0
117.5°	98.8	98.8	102.5	119.0	144.9	162.8	165.3	152.6	145.6	138.0	132.3
120°	89.2	89.9	91.2	101.9	123.4	138.7	140.0	127.9	122.2	118.3	115.3
122.5°	81.0	81.0	81.7	88.0	105.1	117.8	117.8	107.6	103.8	102.5	100.0
125°	73.4	73.4	73.4	75.9	87.3	97.5	96.2	89.9	88.0	88.0	86.7
127.5°	66.5	65.8	65.1	65.8	71.5	78.5	78.5	74.1	74.1	74.6	75.4
130°	59.5	58.8	57.6	56.4	57.0	62.1	61.4	60.1	61.4	63.3	64.6
132.5°	52.6	52.6	50.7	47.5	45.5	46.8	47.5	48.1	50.0	52.6	54.4
135°	45.5	45.5	43.7	39.3	35.5	34.9	34.1	37.4	40.6	43.1	44.9
137.5°	38.5	38.5	36.7	31.7	26.6	24.1	23.4	28.4	31.7	34.1	36.1
140°	32.2	31.7	29.7	24.8	19.0	15.2	15.2	20.2	23.4	26.0	28.4
142.5°	25.3	25.3	23.4	19.0	12.7	8.9	9.5	14.0	16.4	18.3	20.2
145°	19.0	19.0	17.1	12.7	7.5	4.4	5.1	8.9	10.8	12.7	14.6
147.5°	13.2	13.2	11.4	8.3	3.9	1.3	2.5	5.1	6.4	7.5	8.9
150°	8.3	8.3	6.9	4.4	1.8	0.0	0.5	2.5	3.1	3.9	5.1
152.5°	4.4	4.4	3.1	1.8	0.5	0.0	0.0	0.5	1.3	1.8	2.5
155°	1.8	1.8	1.3	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5
157.5°	0.5	0.5	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P266402

CATALOG NUMBER: UTLD-AF24-60-D-U-SL3-FP-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	286.7	286.7	286.7	286.7	286.7	286.7	286.7	286.7	286.7	286.7	286.7
2.5°	288.6	286.2	280.5	275.4	271.0	266.5	262.8	259.6	258.9	257.1	257.6
5°	293.0	288.0	277.2	267.8	257.6	249.4	243.1	237.4	233.0	231.0	230.4
7.5°	302.0	293.7	277.2	262.0	248.2	235.4	224.8	216.5	211.5	208.2	208.9
10°	314.6	303.8	281.7	260.9	241.3	224.0	210.2	200.1	192.4	189.4	189.4
12.5°	331.0	318.4	290.0	262.8	238.1	216.5	198.7	186.0	179.1	174.7	174.7
15°	357.6	339.3	303.8	269.0	238.1	212.1	192.4	178.6	172.1	169.1	168.4
17.5°	386.2	365.9	323.5	281.7	243.7	211.5	191.8	179.8	172.1	168.4	168.4
20°	417.3	393.2	344.4	296.4	253.2	219.0	196.9	182.4	172.8	167.8	167.2
22.5°	450.8	424.2	366.6	311.5	264.6	231.8	203.2	184.2	172.8	167.8	167.2
25°	488.0	455.8	389.3	328.6	279.8	243.1	210.8	186.8	172.8	166.5	165.8
27.5°	526.0	490.0	414.7	344.9	295.6	254.0	217.7	188.6	172.8	165.8	165.3
30°	567.2	524.3	439.4	364.1	310.3	263.4	223.5	190.6	172.8	165.3	164.6
32.5°	607.8	561.5	466.0	385.6	324.2	271.0	228.6	194.4	173.5	164.6	163.3
35°	652.7	601.4	494.4	407.1	336.9	277.9	233.0	196.9	172.8	163.3	162.8
37.5°	699.6	640.8	520.4	426.1	346.9	283.0	235.4	198.7	172.8	162.8	161.4
40°	746.4	680.6	548.2	445.1	356.4	287.4	238.1	200.7	172.1	161.4	160.2
42.5°	791.9	719.8	575.5	460.9	364.1	290.6	239.3	201.9	172.1	160.2	158.9
45°	838.8	759.6	604.0	476.1	369.7	291.9	239.3	201.9	172.8	158.9	157.7
47.5°	883.8	797.1	629.9	488.0	374.1	292.5	239.3	201.9	172.8	157.7	155.8
50°	923.6	831.2	651.5	498.2	376.7	292.5	238.7	201.9	172.8	155.8	153.8
52.5°	962.3	860.9	671.8	505.1	377.9	291.2	237.4	200.7	172.8	153.8	152.0
55°	993.3	887.5	685.6	509.6	376.7	289.3	234.8	199.5	172.1	152.0	149.4
57.5°	1018.0	906.6	696.4	510.9	374.1	286.2	232.3	197.4	170.9	149.4	147.5
60°	1033.8	917.3	699.6	508.4	370.3	281.7	229.2	195.7	169.1	146.9	144.4
62.5°	1039.5	921.1	698.3	503.3	364.6	277.2	226.1	193.0	167.2	143.6	141.2
63°	1039.5	920.6	697.7	502.1	362.7	276.0	225.4	192.4	166.5	143.1	140.6
65°	1035.7	915.5	691.3	494.4	357.0	271.6	222.2	189.9	165.3	141.2	138.0
67.5°	1019.8	902.2	676.8	483.1	347.6	265.3	217.1	186.0	162.1	138.0	134.8
70°	994.6	879.4	657.1	467.8	337.5	258.4	212.1	182.4	158.9	134.8	131.1
72.5°	957.2	847.7	632.4	450.1	325.4	250.6	206.4	178.0	154.5	131.1	126.7
75°	911.1	809.1	603.3	429.8	313.4	241.9	200.7	172.8	150.0	127.3	121.5
77.5°	856.5	764.1	569.7	409.0	299.4	233.0	193.8	167.2	145.6	123.4	116.5
80°	795.8	711.0	533.8	385.6	284.9	223.5	186.8	161.4	139.2	118.3	111.4
82.5°	735.1	657.7	495.8	361.5	270.3	213.9	179.1	155.0	133.6	113.4	106.4
85°	669.1	602.0	458.3	336.9	255.1	203.2	171.5	148.1	127.9	108.2	100.7
87.5°	605.8	545.7	417.3	312.7	240.6	193.8	164.0	141.2	120.9	101.9	96.2
90°	544.5	491.9	381.8	288.0	224.8	183.0	155.8	133.6	113.9	95.6	91.2
92.5°	484.9	437.5	343.2	265.3	210.2	172.8	146.9	126.0	107.0	89.9	86.1
95°	429.2	390.0	310.9	242.5	196.3	162.8	138.7	119.0	99.4	83.0	80.4
97.5°	376.7	344.9	279.3	222.8	181.1	152.6	129.7	110.9	91.7	76.5	75.4
100°	332.4	305.2	249.4	202.6	167.8	142.4	121.5	102.5	84.3	70.2	70.2
102.5°	290.6	266.5	221.6	183.7	154.5	131.7	112.1	94.3	76.5	64.6	64.6
105°	254.0	234.3	198.2	166.5	141.8	121.5	103.1	86.1	68.5	58.8	58.8
107.5°	220.4	205.2	176.0	150.6	129.1	110.9	94.3	77.3	60.1	53.2	53.8



REPORT NUMBER: P266402

CATALOG NUMBER: UTLD-AF24-60-D-U-SL3-FP-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	193.0	181.1	156.3	134.8	117.0	101.9	86.1	69.0	52.6	48.1	48.1
112.5°	167.2	157.7	138.0	121.5	106.4	92.4	77.3	60.7	46.3	43.7	43.7
115°	146.2	138.7	122.2	108.2	95.6	83.0	68.5	52.6	39.9	38.5	39.3
117.5°	127.9	121.5	108.9	97.5	86.1	74.1	60.7	44.9	34.9	34.9	34.9
120°	111.4	107.0	95.6	86.1	76.5	65.1	52.6	38.0	30.5	30.5	31.0
122.5°	98.2	93.8	85.5	75.9	67.2	57.0	44.9	31.7	26.6	27.2	27.8
125°	84.8	82.4	74.6	66.5	58.2	48.1	37.4	26.0	23.4	24.1	24.8
127.5°	74.1	72.1	64.6	57.6	50.0	40.6	30.5	20.9	19.7	20.9	21.5
130°	63.3	62.1	56.4	49.3	41.9	33.5	24.1	17.1	17.1	18.3	18.3
132.5°	53.8	52.6	47.5	40.6	34.1	26.0	18.3	14.0	14.6	15.8	15.8
135°	44.9	43.7	39.3	33.5	26.6	19.7	14.0	11.4	12.7	13.2	13.2
137.5°	36.7	35.5	31.7	26.0	19.7	14.0	10.2	8.9	10.2	11.4	11.4
140°	27.8	27.8	24.8	19.7	14.0	9.5	6.9	6.9	8.3	8.9	8.9
142.5°	20.9	20.2	18.3	14.0	8.9	5.7	4.4	5.1	6.4	6.9	6.9
145°	14.6	14.0	12.7	9.5	5.1	3.1	2.5	3.9	4.4	5.1	5.1
147.5°	9.5	8.9	8.3	5.7	2.5	1.3	1.3	2.5	3.1	3.9	3.9
150°	5.1	5.1	4.4	2.5	1.3	0.0	0.5	1.3	1.8	1.8	1.8
152.5°	2.5	2.5	1.8	1.3	0.5	0.0	0.0	0.0	0.5	0.5	0.5
155°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.5	0.0	0.0	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	0.5	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)