

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: P266510

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-49)
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-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7041 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U3 - G2

Input Watts (W): 94
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



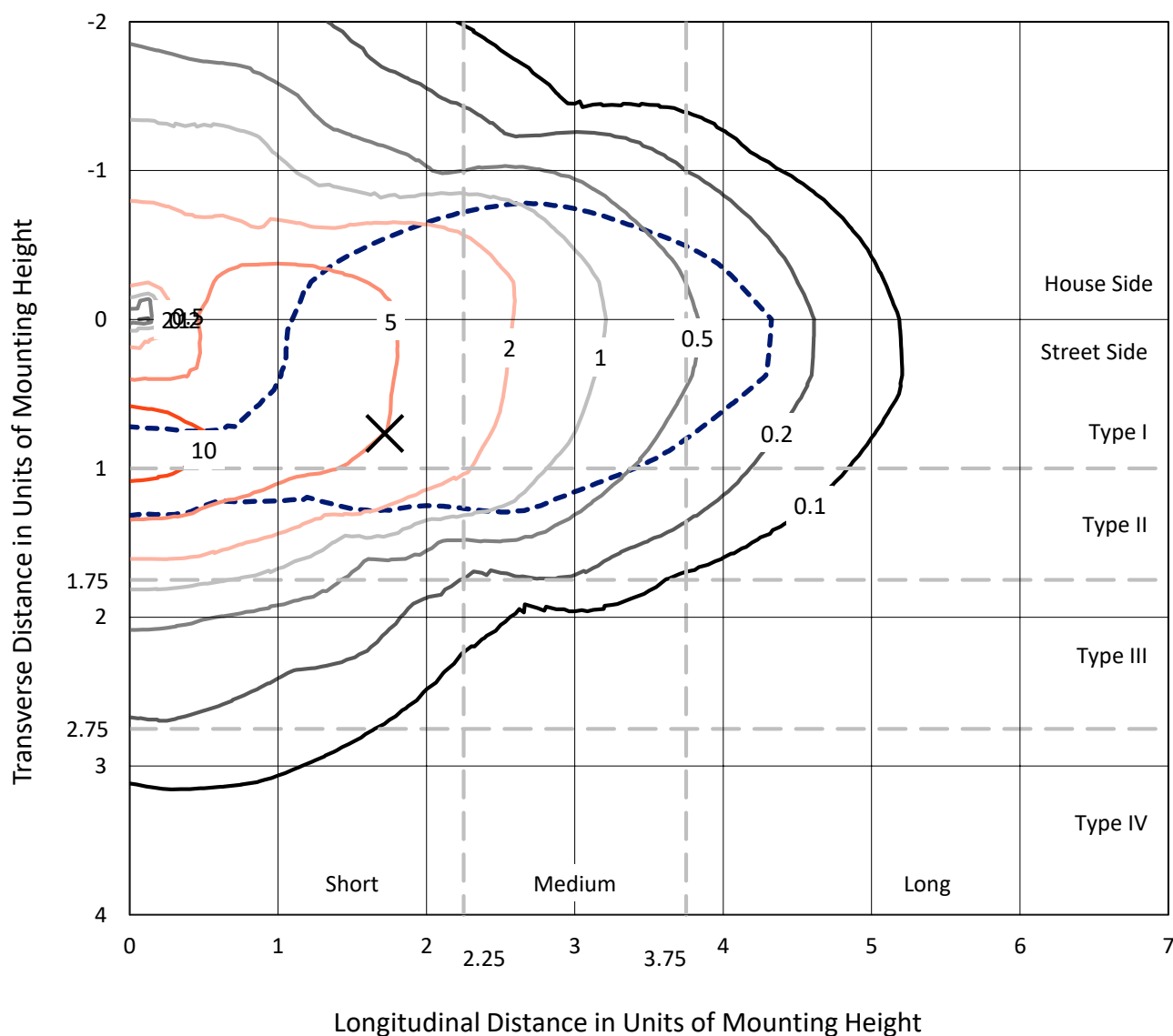
REPORT NUMBER: P266510

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

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

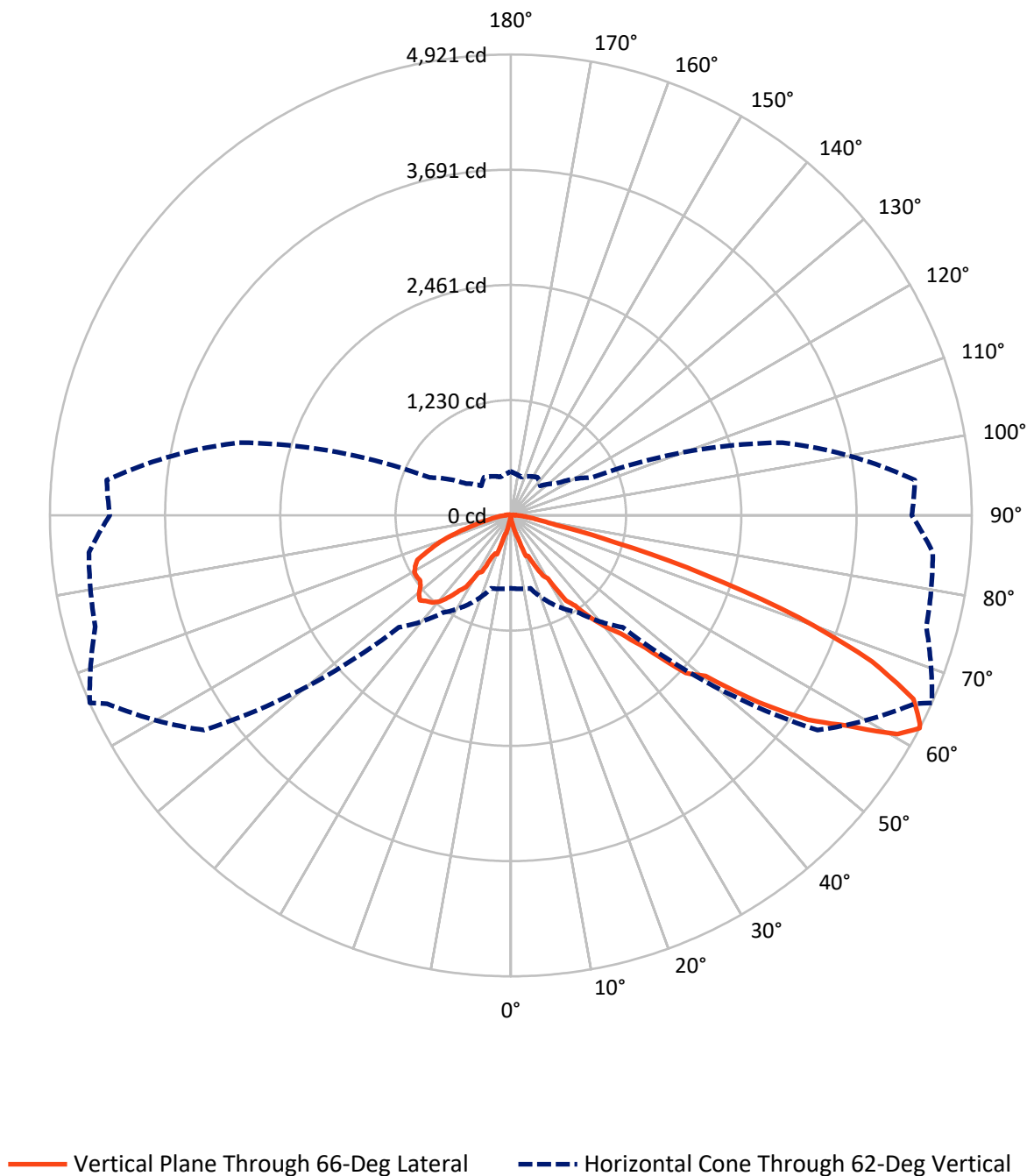


Based on 10 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P266510

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

Luminous Intensity Polar Plot



REPORT NUMBER: P266510

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

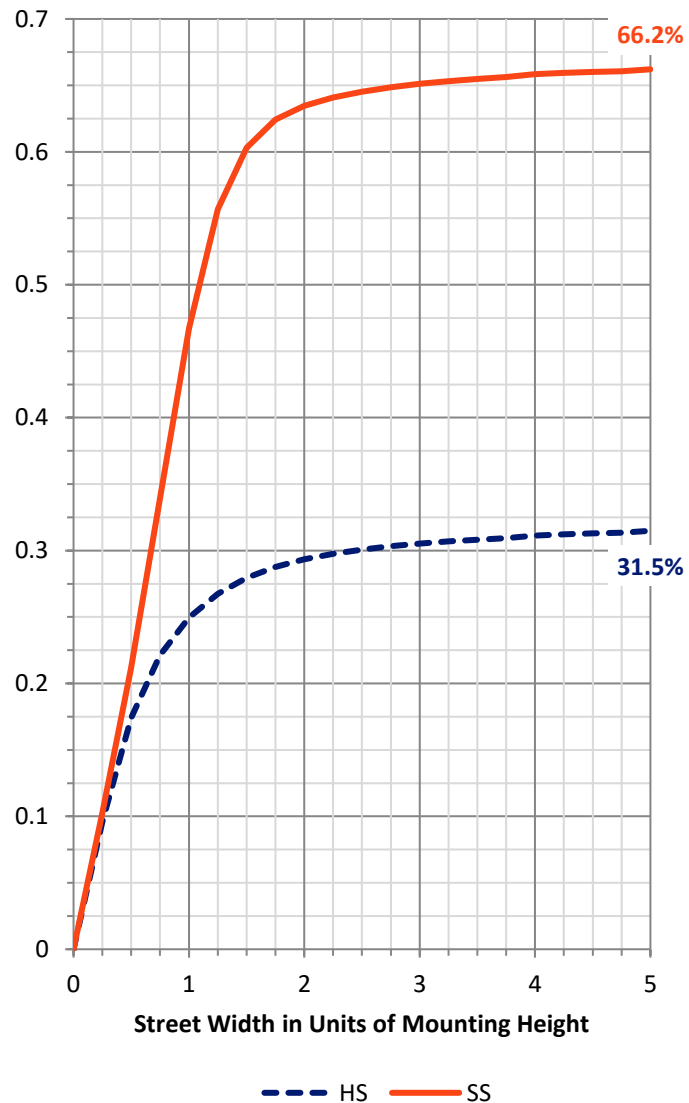
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2258.6	53.8	2312.3
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	4689.1	39.6	4728.7
	% Fixture	66.6	0.6	67.2
Total	Lumens	6947.7	93.3	7041.0
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.1
10°-20°	71.5	1.0
20°-30°	283.0	4.0
30°-40°	705.3	10.0
40°-50°	1344.9	19.1
50°-60°	1834.2	26.1
60°-70°	1684.9	23.9
70°-80°	859.5	12.2
80°-90°	158.1	2.2
90°-100°	41.8	0.6
100°-110°	20.0	0.3
110°-120°	12.1	0.2
120°-130°	9.3	0.1
130°-140°	6.2	0.1
140°-150°	3.0	0.0
150°-160°	0.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6947.7	98.7
0°-180°	7041.0	100.0

Coefficient of Utilization



REPORT NUMBER: P266510

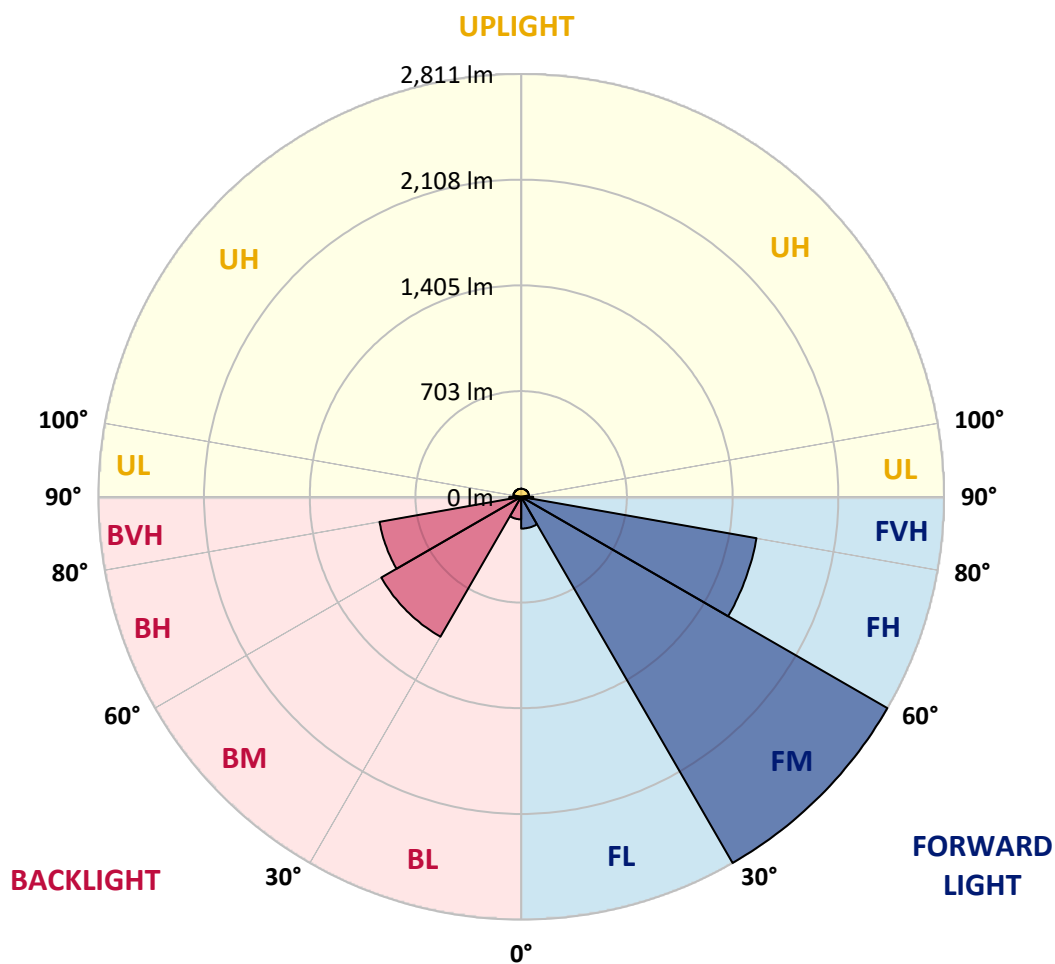
CATALOG NUMBER: UTLD-AF24-90-D-U-T2U-CL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	211.0	3.0			
FM	(30°-60°)	2810.5	39.9			
FH	(60°-80°)	1588.3	22.6			G1/1800
FVH	(80°-90°)	79.3	1.1			G1/100
BL	(0°-30°)	149.7	2.1	B1/500		
BM	(30°-60°)	1073.9	15.3	B2/2500		
BH	(60°-80°)	956.2	13.6	B2/1000		G2/1000
BVH	(80°-90°)	78.8	1.1			G1/100
UL	(90°-100°)	41.8	0.6		U2/50	
UH	(100°-180°)	53.8	0.8		U3/500	

BUG Rating: B2-U3-G2

Type II Short





REPORT NUMBER: P266510

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
2.5°	87.6	83.3	62.4	54.5	46.0	37.3	28.6	24.3	23.4	21.6	19.9
5°	87.6	87.6	90.2	95.4	105.8	96.2	101.4	36.4	34.7	23.4	19.0
7.5°	167.4	163.0	204.5	144.7	91.0	85.0	129.1	79.0	79.0	36.4	21.6
10°	226.3	225.4	276.6	176.8	163.0	197.6	87.6	90.2	90.2	62.4	30.4
12.5°	221.9	220.2	223.7	243.6	204.5	173.5	176.0	115.3	143.9	227.1	233.2
15°	312.2	328.6	311.3	238.4	218.5	217.6	280.9	213.3	216.8	249.6	183.0
17.5°	416.2	417.8	455.1	386.6	304.3	321.7	297.3	298.1	263.6	276.6	309.5
20°	453.4	445.6	466.4	432.5	432.5	385.0	303.4	430.0	462.1	434.3	429.1
22.5°	778.6	775.0	678.0	474.1	490.7	450.0	459.5	501.1	470.7	442.1	434.3
25°	887.7	876.4	842.6	808.8	601.7	631.1	556.5	544.5	578.1	697.9	755.0
27.5°	1180.7	1193.7	1019.4	910.3	811.3	678.8	636.3	782.0	725.7	763.6	755.0
30°	1485.8	1478.9	1417.3	1217.2	1019.4	842.6	844.3	821.0	782.9	899.8	1022.1
32.5°	1926.2	1948.9	1667.1	1457.2	1274.3	1025.5	929.2	1091.4	1084.6	1050.7	1096.7
35°	2401.3	2397.8	2167.3	1821.4	1378.4	1159.9	1110.5	1206.8	1183.2	1131.2	1216.2
37.5°	2703.0	2669.1	2512.3	2215.0	1685.2	1322.0	1339.4	1409.6	1386.2	1317.6	1474.6
40°	3139.8	3102.7	2915.4	2511.4	2101.3	1602.0	1700.0	1642.8	1566.5	1554.3	1574.3
42.5°	3300.3	3302.0	3119.1	2825.2	2462.9	2002.5	2053.6	1802.3	1725.1	1854.3	1811.0
45°	3350.6	3343.6	3216.2	2995.9	2697.8	2481.1	2318.0	2092.7	2014.7	2132.5	2179.4
47.5°	3240.5	3212.7	3233.4	2987.4	2945.7	2690.0	2656.2	2496.7	2513.9	2447.3	2557.4
50°	2944.9	2904.1	2958.7	2894.6	3072.4	2916.3	3309.9	2705.5	2696.1	2816.5	2953.4
52.5°	2486.2	2456.0	2632.8	2579.9	3044.5	3163.3	3439.9	3307.2	3315.9	3327.1	3252.7
55°	2037.1	2052.7	2188.0	2156.8	2643.2	3217.1	3874.2	3800.5	3850.8	3571.7	3572.5
57.5°	1454.6	1489.3	1732.9	1751.2	2202.7	2829.5	4222.7	4104.7	4233.9	3973.1	4031.1
60°	1002.1	1022.9	1154.7	1338.5	1653.2	2349.2	4037.2	4625.0	4742.0	4381.4	4378.7
62°	777.7	786.2	806.1	1041.1	1269.1	1688.8	3996.4	4755.7	4921.4	4592.9	4521.8
62.5°	721.2	730.9	743.7	944.8	1170.3	1535.3	3843.8	4784.5	4902.3	4619.8	4546.1
65°	577.3	581.7	552.2	628.5	827.0	917.2	2761.8	4650.0	4725.4	4586.7	4475.7
67.5°	534.9	519.3	478.5	457.7	618.9	591.3	1503.3	3963.4	4158.6	4389.9	4274.7
70°	443.0	477.7	444.8	409.2	494.2	454.3	638.1	3207.5	3262.1	4018.9	4003.3
72.5°	339.0	364.2	390.1	385.7	380.5	365.8	423.9	2004.3	2164.6	3298.5	3706.9
75°	274.8	285.2	339.7	328.6	338.1	289.6	333.8	952.7	1153.0	2334.5	3223.9
77.5°	221.1	228.0	264.5	254.8	280.0	226.3	266.2	431.7	488.9	1342.0	2207.9
80°	146.6	149.9	192.4	190.7	204.5	200.2	201.1	302.5	306.1	627.6	1155.6
82.5°	109.2	107.4	132.6	133.5	132.6	144.7	137.8	207.1	215.9	307.8	384.0
85°	71.1	68.5	79.0	84.1	80.6	79.8	104.1	145.6	151.8	219.4	228.9
87.5°	38.9	41.6	52.0	52.0	54.5	53.8	85.0	97.0	101.4	146.6	123.1
90°	26.1	26.1	28.6	27.8	29.5	28.6	44.1	57.2	58.1	73.8	65.8
92.5°	23.4	25.2	28.6	28.6	31.3	26.9	39.9	48.6	49.3	59.7	50.2
95°	20.8	21.6	24.3	25.2	26.9	19.0	30.4	39.9	40.8	49.3	40.8
97.5°	17.3	19.0	20.8	21.6	24.3	17.3	25.2	32.1	33.0	38.2	31.3
100°	17.3	18.1	18.1	18.1	20.8	14.7	21.6	27.8	28.6	31.3	26.1
102.5°	16.4	17.3	16.4	15.6	17.3	12.9	19.0	23.4	23.4	22.5	21.6
105°	16.4	16.4	13.8	12.1	14.7	12.1	16.4	17.3	17.3	17.3	19.9
107.5°	15.6	15.6	12.9	11.3	12.1	10.4	13.8	14.7	14.7	15.6	19.0



REPORT NUMBER: P266510

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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	14.7	13.8	11.3	9.5	9.5	9.5	11.3	12.1	12.1	13.8	19.9
112.5°	12.9	12.9	9.5	8.7	8.7	8.7	10.4	11.3	11.3	12.9	19.0
115°	12.1	12.1	9.5	7.7	7.7	7.7	9.5	10.4	10.4	12.1	19.0
117.5°	12.9	12.1	8.7	7.7	6.9	6.9	7.7	9.5	9.5	12.1	19.0
120°	11.3	11.3	8.7	6.9	6.1	6.9	7.7	8.7	9.5	12.9	19.0
122.5°	12.1	11.3	8.7	6.1	6.1	6.1	6.9	8.7	8.7	12.1	17.3
125°	11.3	10.4	7.7	6.1	5.2	6.1	6.9	7.7	8.7	12.1	17.3
127.5°	11.3	10.4	7.7	6.1	5.2	5.2	6.9	7.7	7.7	11.3	16.4
130°	10.4	10.4	6.9	5.2	5.2	5.2	6.1	6.9	6.9	10.4	14.7
132.5°	9.5	8.7	6.9	5.2	4.3	5.2	6.1	6.1	6.1	9.5	13.8
135°	8.7	8.7	6.9	5.2	4.3	4.3	5.2	6.1	6.1	8.7	12.1
137.5°	7.7	7.7	6.9	5.2	4.3	4.3	4.3	5.2	5.2	7.7	10.4
140°	7.7	7.7	6.9	5.2	4.3	4.3	4.3	4.3	4.3	6.1	8.7
142.5°	7.7	7.7	6.9	5.2	4.3	3.5	3.5	3.5	3.5	5.2	6.9
145°	6.9	6.9	6.1	5.2	3.5	2.5	2.5	3.5	3.5	4.3	5.2
147.5°	6.9	6.9	6.1	4.3	2.5	1.7	1.7	2.5	2.5	3.5	4.3
150°	5.2	5.2	5.2	3.5	1.7	0.0	1.7	1.7	1.7	3.5	3.5
152.5°	3.5	3.5	2.5	1.7	0.9	0.9	0.9	1.7	1.7	1.7	2.5
155°	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.9	0.9	1.7	1.7
157.5°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.9	0.9	0.9	0.9
160°	0.0	0.0	0.0	0.9	0.9	0.0	0.0	0.9	0.9	0.9	0.9
162.5°	0.0	0.0	0.0	0.9	0.9	0.9	0.0	0.9	0.9	0.9	0.9
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: P266510

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
2.5°	19.9	19.0	19.0	19.0	19.9	19.9	19.9	19.0	18.1	18.1	18.1
5°	18.1	17.3	17.3	17.3	18.1	18.1	18.1	18.1	18.1	18.1	18.1
7.5°	19.9	18.1	18.1	17.3	17.3	18.1	19.9	29.5	51.2	72.0	84.1
10°	27.8	27.8	24.3	22.5	22.5	33.0	122.2	132.6	132.6	125.8	121.5
12.5°	251.3	198.5	175.1	61.5	50.2	102.2	117.0	110.1	152.6	177.8	188.1
15°	182.0	199.3	215.0	193.3	261.0	109.2	176.8	215.0	289.6	292.9	295.6
17.5°	306.1	330.2	238.4	208.0	243.6	323.4	264.5	274.0	274.0	274.0	274.8
20°	430.8	438.6	457.7	437.7	244.5	340.6	339.0	275.7	310.4	386.6	408.3
22.5°	457.7	473.3	450.8	436.9	516.6	318.2	350.2	438.6	443.9	423.0	433.4
25°	776.8	754.1	662.3	466.4	515.7	444.8	452.6	411.0	422.2	410.0	417.8
27.5°	770.7	758.4	684.9	672.7	541.8	526.1	420.4	474.1	503.7	522.8	519.3
30°	1076.7	1005.7	793.3	694.4	639.8	503.7	462.1	449.1	445.6	468.1	469.9
32.5°	1081.9	1071.5	913.7	898.1	658.0	509.8	436.0	410.0	468.1	499.4	494.2
35°	1255.3	1201.6	1044.5	969.2	756.0	479.3	389.2	410.0	419.6	442.1	441.2
37.5°	1410.5	1394.0	1265.7	1070.6	728.2	436.9	439.5	436.9	425.6	429.1	429.1
40°	1616.8	1525.7	1411.2	1165.1	681.4	468.1	474.1	412.6	401.4	395.3	395.3
42.5°	1862.0	1707.8	1602.0	1211.0	647.6	551.3	449.1	403.1	391.8	374.6	371.9
45°	2151.6	1960.0	1801.5	1225.7	543.6	571.3	466.4	458.6	421.3	405.8	399.7
47.5°	2405.7	2251.3	2031.2	1250.1	630.3	545.4	613.7	520.9	406.6	429.1	425.6
50°	2787.1	2588.6	2192.4	1188.5	673.5	529.7	638.1	456.0	418.7	449.1	447.4
52.5°	3124.2	2935.3	2361.5	1095.8	637.2	732.5	566.1	522.8	485.4	469.9	468.1
55°	3477.1	3288.2	2475.9	1049.0	629.4	586.1	588.6	566.1	438.6	472.5	471.6
57.5°	3882.8	3778.8	2724.6	1029.0	645.0	517.6	588.6	473.3	500.1	472.5	477.7
60°	4099.5	4099.5	2869.5	1009.1	595.5	531.3	505.3	520.2	434.3	439.5	453.4
62°	4281.6	4330.2	3002.0	956.2	593.8	445.6	496.8	459.5	424.8	450.8	468.1
62.5°	4343.1	4380.4	3041.9	945.7	608.5	422.2	460.3	458.6	440.3	443.9	459.5
65°	4403.0	4575.4	3137.3	879.9	560.1	398.8	393.5	435.1	381.4	364.9	365.8
67.5°	4345.8	4583.3	3105.3	708.3	454.3	342.4	347.6	363.3	344.2	338.1	341.5
70°	4136.9	4233.1	2778.4	584.3	391.8	313.8	333.8	320.8	315.6	314.6	313.8
72.5°	3850.8	3667.8	2182.0	439.5	337.3	272.1	286.1	295.6	297.3	292.9	287.7
75°	3248.4	2880.8	1423.5	329.4	269.6	230.5	261.0	268.8	275.7	263.6	259.3
77.5°	2229.7	1816.2	736.9	261.8	233.2	193.3	228.9	240.9	247.9	229.7	232.3
80°	1035.0	828.7	340.6	214.2	193.3	160.3	194.2	209.8	219.4	195.0	186.4
82.5°	349.4	319.0	205.4	165.6	158.6	122.2	156.9	175.1	177.8	162.1	137.8
85°	208.0	208.9	143.9	127.4	117.0	76.3	112.6	137.8	137.8	114.4	93.7
87.5°	119.7	134.3	110.1	97.0	87.6	52.0	84.1	94.5	92.7	72.9	52.0
90°	59.7	70.2	64.9	64.1	65.8	33.0	65.8	71.1	71.1	50.2	32.1
92.5°	44.1	53.8	58.1	54.5	55.4	25.2	52.9	53.8	52.9	38.9	25.2
95°	37.3	46.8	58.1	54.5	52.9	20.8	48.6	49.3	50.2	38.2	27.8
97.5°	29.5	35.6	45.0	44.1	47.7	17.3	44.1	44.1	42.5	31.3	23.4
100°	26.9	31.3	38.2	38.2	41.6	15.6	38.9	35.6	33.7	25.2	21.6
102.5°	22.5	25.2	29.5	28.6	31.3	14.7	28.6	27.8	26.1	21.6	20.8
105°	21.6	22.5	22.5	20.8	21.6	13.8	19.9	19.0	18.1	18.1	19.0
107.5°	20.8	20.8	19.0	17.3	17.3	12.9	14.7	13.8	14.7	19.0	19.9



REPORT NUMBER: P266510

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	20.8	20.8	17.3	15.6	13.8	12.1	12.9	11.3	12.9	19.0	20.8
112.5°	20.8	20.8	15.6	12.9	12.9	11.3	11.3	10.4	12.1	19.0	20.8
115°	19.9	19.9	14.7	12.1	11.3	10.4	10.4	9.5	12.1	19.0	20.8
117.5°	19.9	19.9	14.7	12.1	10.4	9.5	9.5	8.7	12.1	19.9	20.8
120°	19.9	19.9	14.7	11.3	10.4	9.5	8.7	8.7	12.1	19.0	20.8
122.5°	19.0	18.1	13.8	10.4	9.5	8.7	8.7	8.7	12.1	19.9	20.8
125°	18.1	17.3	13.8	10.4	8.7	8.7	7.7	7.7	12.1	19.0	19.9
127.5°	17.3	17.3	12.9	9.5	8.7	7.7	7.7	7.7	12.1	19.9	19.9
130°	16.4	15.6	12.1	8.7	7.7	6.9	6.9	7.7	12.9	18.1	19.0
132.5°	14.7	13.8	11.3	7.7	6.9	6.9	6.9	6.9	12.1	18.1	18.1
135°	12.1	12.1	9.5	6.9	6.1	6.1	6.1	6.9	11.3	15.6	16.4
137.5°	11.3	10.4	8.7	6.9	5.2	6.1	6.1	6.9	11.3	14.7	15.6
140°	9.5	8.7	6.9	5.2	5.2	5.2	5.2	6.1	9.5	12.9	13.8
142.5°	6.9	6.9	6.1	4.3	4.3	4.3	4.3	6.1	8.7	11.3	11.3
145°	6.1	6.1	5.2	4.3	3.5	2.5	2.5	4.3	6.9	9.5	9.5
147.5°	4.3	4.3	4.3	3.5	2.5	2.5	2.5	3.5	5.2	6.9	6.9
150°	3.5	3.5	3.5	2.5	2.5	1.7	1.7	2.5	4.3	5.2	5.2
152.5°	2.5	2.5	2.5	2.5	1.7	1.7	1.7	1.7	2.5	3.5	3.5
155°	1.7	1.7	1.7	1.7	1.7	1.7	0.9	0.9	0.9	1.7	1.7
157.5°	0.9	0.9	0.9	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.0
160°	0.9	0.9	0.9	1.7	1.7	1.7	0.9	0.9	0.0	0.0	0.0
162.5°	0.9	0.9	0.9	0.9	1.7	1.7	0.9	0.9	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)