

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: P266469

Luminaire Tested: **UTLD-AF24-80-D-U-SL3-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-48)
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-SL3-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6331.5 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U2 - G2

Input Watts (W): 83
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



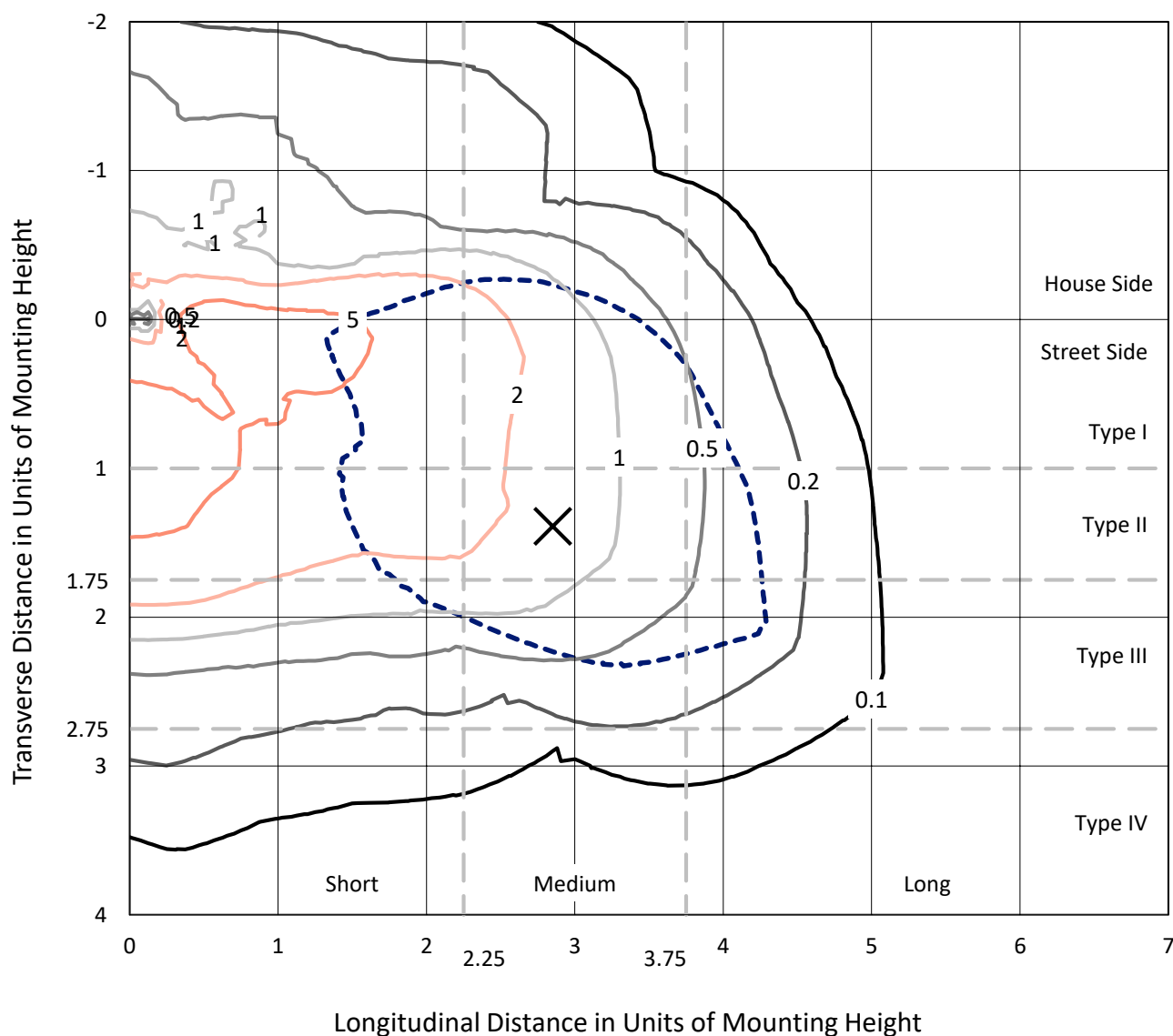
REPORT NUMBER: P266469

CATALOG NUMBER: UTLD-AF24-80-D-U-SL3-CL-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

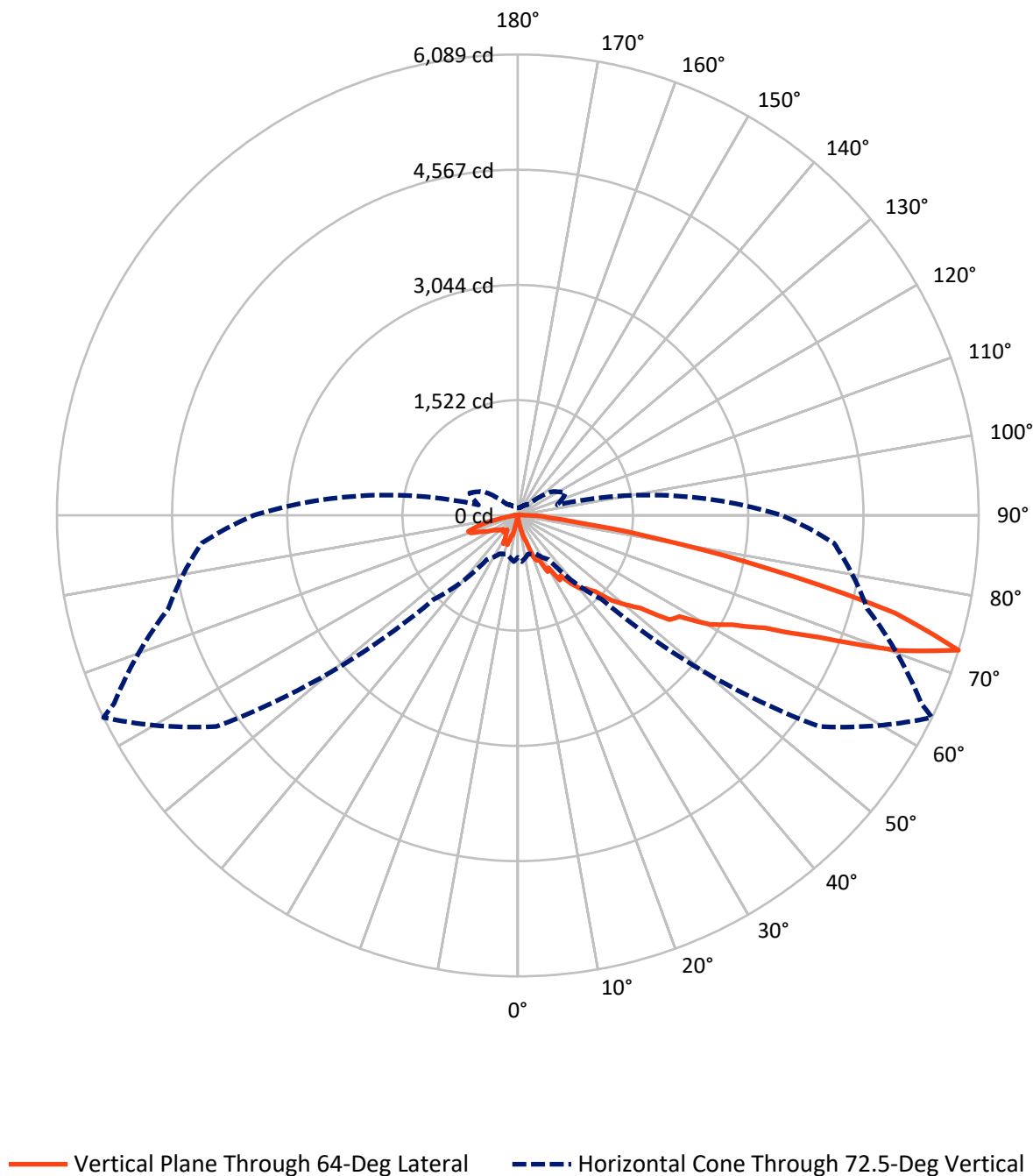


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P266469

CATALOG NUMBER: UTLD-AF24-80-D-U-SL3-CL-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266469

CATALOG NUMBER: UTLD-AF24-80-D-U-SL3-CL-7027

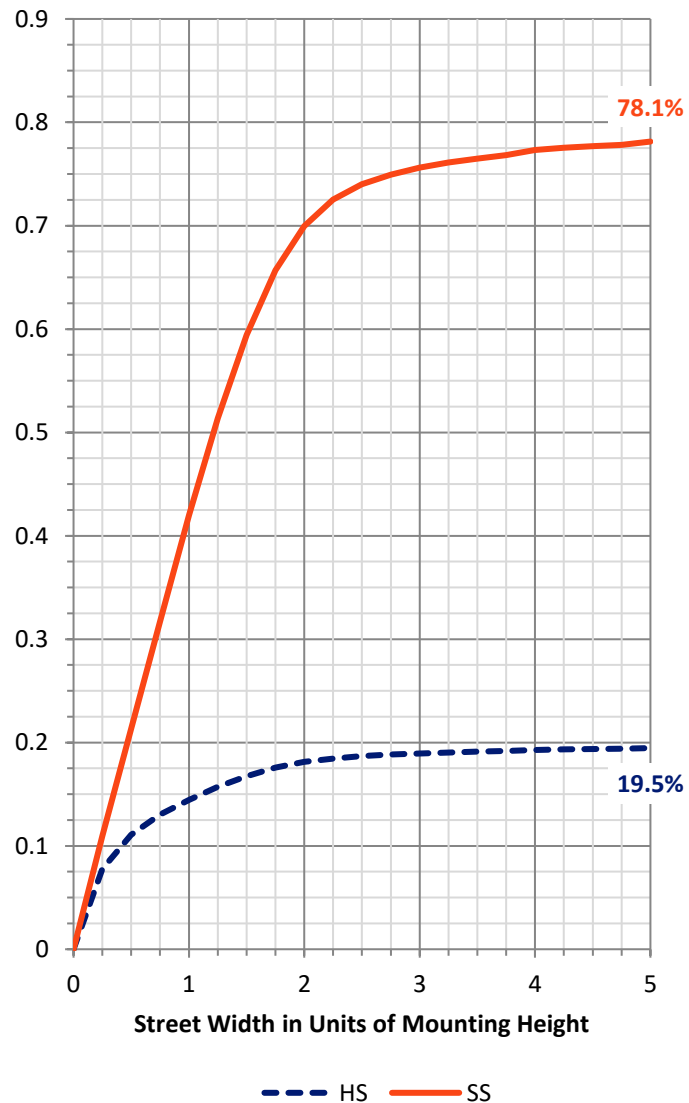
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1253.3	39.0	1292.4
	% Fixture	19.8	0.6	20.4
Street Side	Lumens	4998.8	40.3	5039.2
	% Fixture	79.0	0.6	79.6
Total	Lumens	6252.1	79.4	6331.5
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.8	0.1
10°-20°	84.5	1.3
20°-30°	248.8	3.9
30°-40°	493.4	7.8
40°-50°	851.4	13.4
50°-60°	1376.3	21.7
60°-70°	1744.3	27.5
70°-80°	1249.7	19.7
80°-90°	196.0	3.1
90°-100°	39.5	0.6
100°-110°	17.6	0.3
110°-120°	9.0	0.1
120°-130°	6.7	0.1
130°-140°	4.1	0.1
140°-150°	2.1	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6252.1	98.7
0°-180°	6331.5	100.0

Coefficient of Utilization



REPORT NUMBER: P266469

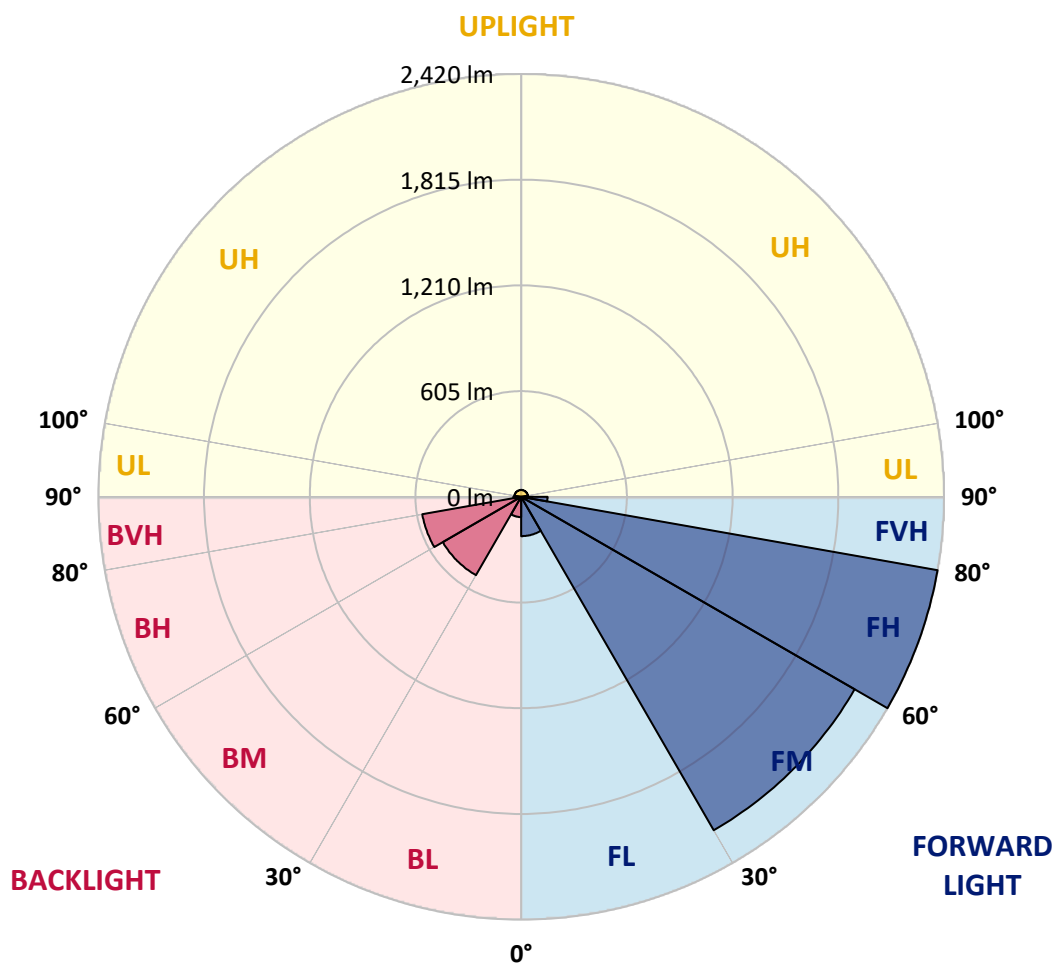
CATALOG NUMBER: UTLD-AF24-80-D-U-SL3-CL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	225.1	3.6			
FM	(30°-60°)	2203.3	34.8			
FH	(60°-80°)	2419.6	38.2			G2/5000
FVH	(80°-90°)	150.8	2.4			G2/225
BL	(0°-30°)	116.0	1.8	B1/500		
BM	(30°-60°)	517.8	8.2	B1/1000		
BH	(60°-80°)	574.4	9.1	B2/1000		G2/1000
BVH	(80°-90°)	45.2	0.7			G1/100
UL	(90°-100°)	39.5	0.6		U2/50	
UH	(100°-180°)	39.0	0.6		U2/50	

BUG Rating: B2-U2-G2

Type III Medium





REPORT NUMBER: P266469

CATALOG NUMBER: UTLD-AF24-80-D-U-SL3-CL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
2.5°	44.0	39.3	41.0	36.1	30.5	24.9	20.8	18.4	18.4	17.6	16.0
5°	153.2	156.3	175.6	147.5	133.8	174.8	48.9	28.0	26.5	18.4	15.2
7.5°	204.5	214.1	153.2	127.5	119.5	192.3	143.5	78.5	64.9	24.1	16.9
10°	387.2	360.8	243.7	266.2	247.8	157.9	105.0	107.4	98.6	39.3	27.3
12.5°	346.3	350.2	358.3	325.5	335.1	248.6	127.5	209.2	223.7	251.7	236.6
15°	404.1	387.2	325.5	354.3	337.6	392.7	330.2	307.8	338.3	348.0	289.4
17.5°	548.3	536.3	622.9	424.9	308.7	441.7	392.7	360.0	342.3	381.6	461.0
20°	504.3	505.0	541.0	480.2	498.6	406.5	395.3	581.3	697.4	661.4	642.9
22.5°	759.2	735.9	611.7	477.0	526.6	465.9	555.5	648.5	615.7	600.4	648.5
25°	737.6	746.3	709.5	716.7	527.6	622.9	578.8	618.9	658.2	944.4	1064.6
27.5°	906.7	857.1	814.6	742.4	726.3	586.1	559.6	841.0	863.5	946.8	998.0
30°	1192.9	1168.1	1090.3	847.5	758.3	630.2	765.5	804.9	819.3	1114.3	1378.9
32.5°	1514.4	1422.9	1198.5	1108.7	825.0	777.7	720.7	1018.0	1001.3	1235.3	1393.4
35°	1750.8	1696.3	1484.7	1205.7	991.6	831.3	970.0	978.9	1064.6	1293.1	1406.1
37.5°	1701.1	1716.4	1628.9	1438.9	1091.1	898.7	1049.4	1139.9	1147.9	1400.5	1490.3
40°	1830.1	1839.8	1809.4	1596.9	1258.6	1034.2	1179.3	1264.3	1196.9	1532.8	1593.0
42.5°	1905.6	1920.8	1979.3	1826.3	1419.7	1182.4	1382.9	1322.8	1263.5	1646.7	1811.8
45°	2070.0	2061.9	2087.5	1905.6	1658.6	1488.0	1451.8	1433.3	1455.9	1851.0	2022.7
47.5°	2299.2	2331.2	2204.6	1944.0	1838.2	1563.2	1645.1	1680.3	1765.3	2115.6	2236.7
50°	2638.3	2597.4	2445.8	2114.8	2015.3	1662.7	2015.3	1853.5	1809.4	2357.0	2556.5
52.5°	2776.2	2749.7	2534.8	2187.0	2126.0	1851.0	2077.9	2037.0	2021.8	2690.5	2912.5
55°	2830.6	2811.4	2722.5	2199.8	2226.2	2132.4	2383.4	2430.6	2405.0	2902.1	3271.5
57.5°	2686.4	2718.5	2724.9	2252.0	2294.5	2165.4	2863.5	2521.3	2704.8	3167.5	3550.6
60°	2490.8	2492.3	2577.3	2245.5	2357.7	2375.4	2967.8	2921.3	3092.9	3307.6	3627.5
62.5°	2007.4	2064.2	2204.6	2200.6	2445.8	2647.9	3480.0	3180.2	3247.6	3450.4	3868.8
65°	1331.6	1362.0	1532.0	1824.5	2288.7	2865.1	3900.9	3582.7	3678.1	3722.1	4220.0
67.5°	794.5	832.1	856.2	1165.6	1911.1	2908.4	4774.0	4297.0	4210.4	4133.5	4572.0
70°	663.8	688.6	618.9	697.4	1168.1	2640.7	5194.8	5342.3	5061.0	4689.7	4646.5
72.5°	556.4	610.8	527.6	557.9	711.1	1567.3	4863.0	6088.7	5884.3	4782.8	4191.9
75°	412.9	488.9	439.4	501.1	656.7	804.9	3669.2	5145.1	5081.0	4145.4	3111.3
77.5°	322.3	335.8	275.1	378.4	630.9	665.4	2201.3	3391.9	3336.6	2643.2	1442.9
80°	226.1	231.8	217.3	197.2	487.4	623.8	1115.2	1880.7	1763.6	821.0	479.3
82.5°	142.7	152.4	170.0	133.8	236.6	582.0	614.9	828.1	737.6	279.0	238.1
85°	85.8	93.9	105.0	93.9	110.6	444.9	476.2	425.6	388.7	170.0	150.7
87.5°	49.6	52.1	63.3	64.9	82.6	258.9	380.1	316.7	278.1	113.0	97.7
90°	34.5	32.1	32.1	33.6	42.5	113.0	185.9	110.6	111.4	59.3	51.4
92.5°	26.5	26.5	28.8	28.8	41.0	99.4	85.8	59.3	56.1	49.6	41.0
95°	20.0	21.6	21.6	23.3	28.0	30.5	42.5	44.0	44.0	44.8	36.1
97.5°	16.9	18.4	18.4	19.3	22.5	23.3	29.6	38.4	38.4	37.6	29.6
100°	16.0	16.9	16.0	16.0	18.4	17.6	24.1	32.9	34.5	32.9	25.6
102.5°	15.2	16.0	14.5	12.8	16.0	12.8	20.0	29.6	30.5	24.1	20.0
105°	15.2	15.2	12.8	10.4	12.8	10.4	16.9	20.8	20.8	16.9	19.3
107.5°	15.2	14.5	11.1	8.9	9.6	8.9	13.7	13.7	13.7	12.8	18.4
110°	13.7	12.8	10.4	8.1	7.2	7.2	9.6	9.6	9.6	11.1	18.4



REPORT NUMBER: P266469

CATALOG NUMBER: UTLD-AF24-80-D-U-SL3-CL-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	12.0	11.1	8.9	6.4	5.6	5.6	6.4	7.2	7.2	10.4	17.6
115°	10.4	10.4	8.1	6.4	4.9	4.9	5.6	6.4	6.4	9.6	16.9
117.5°	10.4	10.4	7.2	5.6	4.0	4.0	4.9	5.6	5.6	9.6	17.6
120°	10.4	10.4	7.2	4.9	4.0	3.2	4.0	4.9	4.9	10.4	18.4
122.5°	9.6	9.6	7.2	4.9	3.2	3.2	3.2	4.9	4.9	9.6	16.9
125°	9.6	9.6	6.4	4.9	3.2	3.2	3.2	4.0	4.9	10.4	16.9
127.5°	8.9	8.9	7.2	4.9	3.2	2.4	3.2	4.0	4.0	9.6	16.0
130°	8.9	8.9	6.4	4.0	2.4	2.4	2.4	3.2	4.0	8.9	14.5
132.5°	8.1	8.1	5.6	4.0	2.4	1.5	2.4	3.2	3.2	8.1	12.8
135°	8.1	8.1	6.4	4.0	2.4	1.5	2.4	3.2	3.2	7.2	11.1
137.5°	7.2	7.2	5.6	4.0	2.4	1.5	1.5	2.4	3.2	7.2	10.4
140°	7.2	7.2	6.4	4.9	2.4	1.5	1.5	2.4	2.4	5.6	8.1
142.5°	8.1	8.1	6.4	4.0	2.4	1.5	1.5	1.5	2.4	4.0	6.4
145°	7.2	7.2	5.6	4.0	2.4	0.8	0.8	1.5	2.4	4.0	5.6
147.5°	7.2	7.2	6.4	4.0	1.5	0.8	0.8	1.5	1.5	3.2	4.9
150°	6.4	6.4	4.9	2.4	0.8	0.0	0.8	1.5	1.5	2.4	4.0
152.5°	4.9	4.9	3.2	1.5	0.0	0.0	0.0	0.8	0.8	1.5	2.4
155°	2.4	2.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5
157.5°	0.8	0.8	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: P266469

CATALOG NUMBER: UTLD-AF24-80-D-U-SL3-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
2.5°	16.0	16.0	16.0	16.0	15.2	15.2	14.5	14.5	14.5	14.5	14.5
5°	15.2	15.2	15.2	14.5	13.7	12.8	13.7	12.8	12.8	12.8	12.8
7.5°	16.0	16.0	14.5	13.7	13.7	13.7	17.6	106.5	235.6	201.9	210.1
10°	29.6	28.0	24.1	20.0	18.4	105.8	201.9	185.2	141.2	117.9	121.0
12.5°	294.3	264.6	170.8	118.7	136.4	140.2	126.8	138.7	226.1	206.8	207.6
15°	294.3	301.4	246.9	278.1	240.4	112.3	216.4	258.2	250.9	230.9	242.2
17.5°	497.0	493.8	307.8	283.0	232.5	234.8	203.6	177.1	164.3	162.0	164.3
20°	736.7	614.1	586.9	427.4	261.3	239.7	168.3	142.7	181.9	224.4	230.1
22.5°	648.5	648.5	526.6	381.6	323.1	205.3	183.6	181.9	218.1	215.7	226.1
25°	1095.0	951.6	682.3	367.9	282.2	208.4	185.9	169.2	190.0	218.8	216.4
27.5°	1010.1	937.1	674.2	442.5	221.3	226.9	171.5	166.7	214.1	230.1	231.8
30°	1274.7	1174.4	681.5	332.7	222.9	174.8	158.7	170.0	178.8	194.0	195.7
32.5°	1320.4	1195.3	654.1	299.9	234.8	168.3	161.2	160.3	181.9	209.2	211.6
35°	1292.3	1147.1	616.4	252.6	235.6	170.0	165.2	182.7	166.7	194.8	198.9
37.5°	1484.7	1171.2	556.4	235.6	216.4	174.8	216.4	174.8	173.9	182.7	184.4
40°	1482.4	1225.0	488.1	287.7	216.4	287.7	226.1	181.9	156.3	171.5	172.4
42.5°	1601.8	1255.4	428.1	296.6	233.3	333.5	210.8	177.1	185.9	195.7	205.3
45°	1739.6	1351.6	400.9	266.9	262.9	258.2	219.6	230.9	168.3	270.2	281.3
47.5°	1928.0	1475.0	364.0	261.3	356.7	259.7	418.5	214.9	185.2	319.8	326.3
50°	2209.4	1692.3	367.1	287.0	327.2	278.1	281.3	233.3	250.1	332.7	334.3
52.5°	2509.2	1874.4	345.5	316.7	321.5	341.5	299.9	348.7	246.1	319.8	319.8
55°	2774.5	2142.8	356.0	333.5	335.8	297.3	422.6	257.4	245.2	321.5	329.5
57.5°	3120.9	2429.8	427.4	348.7	344.7	317.6	326.3	319.1	288.5	327.2	332.0
60°	3304.4	2639.1	535.5	392.0	360.8	366.4	386.5	307.0	262.1	382.4	397.6
62.5°	3595.5	2940.5	678.2	444.1	457.7	375.2	329.5	334.3	279.0	304.6	307.8
65°	3931.4	3254.0	748.7	495.4	493.0	416.9	373.5	259.7	181.2	167.5	166.7
67.5°	4183.9	3375.0	685.4	554.0	614.9	400.0	256.6	184.4	139.4	131.5	133.8
70°	4021.2	3098.4	586.9	664.6	622.0	310.3	221.3	146.8	119.5	112.3	116.2
72.5°	3488.8	2503.5	538.8	701.4	545.9	209.2	165.2	129.0	107.4	100.3	101.8
75°	2465.9	1609.0	553.1	594.0	388.0	151.5	142.7	107.4	95.4	85.8	85.8
77.5°	1083.0	689.4	433.7	428.1	248.6	120.3	121.0	89.0	82.6	73.8	73.8
80°	436.0	364.7	254.8	247.8	165.9	94.6	96.2	73.8	74.6	62.5	58.5
82.5°	230.9	208.4	141.9	133.0	118.7	72.9	68.1	63.3	62.5	51.4	44.8
85°	151.5	137.1	93.0	86.5	88.2	53.7	57.0	60.1	55.3	42.5	29.6
87.5°	93.9	93.0	65.8	62.5	65.8	38.4	46.5	48.9	46.5	32.1	19.3
90°	44.0	48.1	44.0	43.3	43.3	18.4	36.1	38.4	37.6	25.6	15.2
92.5°	34.5	39.3	41.0	41.7	41.7	19.3	37.6	40.1	38.4	26.5	16.9
95°	29.6	34.5	40.1	40.1	39.3	15.2	35.3	39.3	36.9	24.9	16.0
97.5°	24.9	28.8	34.5	34.5	37.6	12.8	32.9	37.6	36.9	26.5	16.9
100°	23.3	27.3	30.5	31.4	34.5	12.0	29.6	33.6	32.9	21.6	17.6
102.5°	21.6	23.3	24.1	24.9	25.6	11.1	23.3	25.6	24.9	16.0	16.0
105°	20.0	20.0	17.6	16.9	16.9	10.4	14.5	17.6	14.5	12.8	14.5
107.5°	20.0	19.3	14.5	12.8	12.8	9.6	11.1	11.1	9.6	12.8	13.7
110°	20.0	18.4	12.8	11.1	10.4	8.9	8.9	8.1	8.1	12.8	13.7



REPORT NUMBER: P266469

CATALOG NUMBER: UTLD-AF24-80-D-U-SL3-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	19.3	17.6	11.1	9.6	9.6	8.1	7.2	6.4	7.2	12.8	14.5
115°	18.4	16.9	10.4	9.6	8.9	7.2	6.4	4.9	7.2	13.7	15.2
117.5°	18.4	16.9	10.4	8.9	8.1	6.4	5.6	4.9	7.2	13.7	15.2
120°	19.3	16.9	10.4	8.1	7.2	5.6	4.9	4.9	7.2	13.7	15.2
122.5°	18.4	16.0	9.6	7.2	6.4	5.6	4.9	4.9	7.2	13.7	14.5
125°	17.6	16.0	9.6	6.4	5.6	4.9	4.0	4.0	8.1	13.7	14.5
127.5°	16.9	15.2	8.9	5.6	4.9	4.9	4.0	4.0	8.1	12.8	13.7
130°	15.2	13.7	8.9	5.6	4.0	4.0	3.2	3.2	8.1	12.8	13.7
132.5°	13.7	12.8	8.1	4.9	3.2	3.2	3.2	3.2	7.2	11.1	12.0
135°	12.0	10.4	7.2	4.0	3.2	2.4	2.4	2.4	6.4	9.6	10.4
137.5°	10.4	9.6	6.4	4.0	2.4	2.4	1.5	1.5	5.6	8.9	9.6
140°	8.9	8.1	5.6	3.2	2.4	2.4	1.5	1.5	4.0	6.4	7.2
142.5°	6.4	6.4	4.9	3.2	2.4	1.5	1.5	1.5	4.0	5.6	6.4
145°	5.6	5.6	4.9	3.2	2.4	1.5	0.8	0.8	2.4	4.0	4.0
147.5°	4.9	4.9	4.0	3.2	1.5	0.8	0.8	0.8	1.5	2.4	2.4
150°	4.0	4.0	3.2	2.4	1.5	0.8	0.0	0.0	0.8	1.5	1.5
152.5°	2.4	2.4	2.4	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.5	1.5	1.5	0.8	0.8	0.0	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	0.8	0.8	0.8	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)