

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: P266277

Luminaire Tested: **UTLD-AF24-20-D-U-T3-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-15)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-20-D-U-T3-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1773.5 lumens
Efficiency: N/A
Efficacy: 84.5 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 - G1

Input Watts (W): 21
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

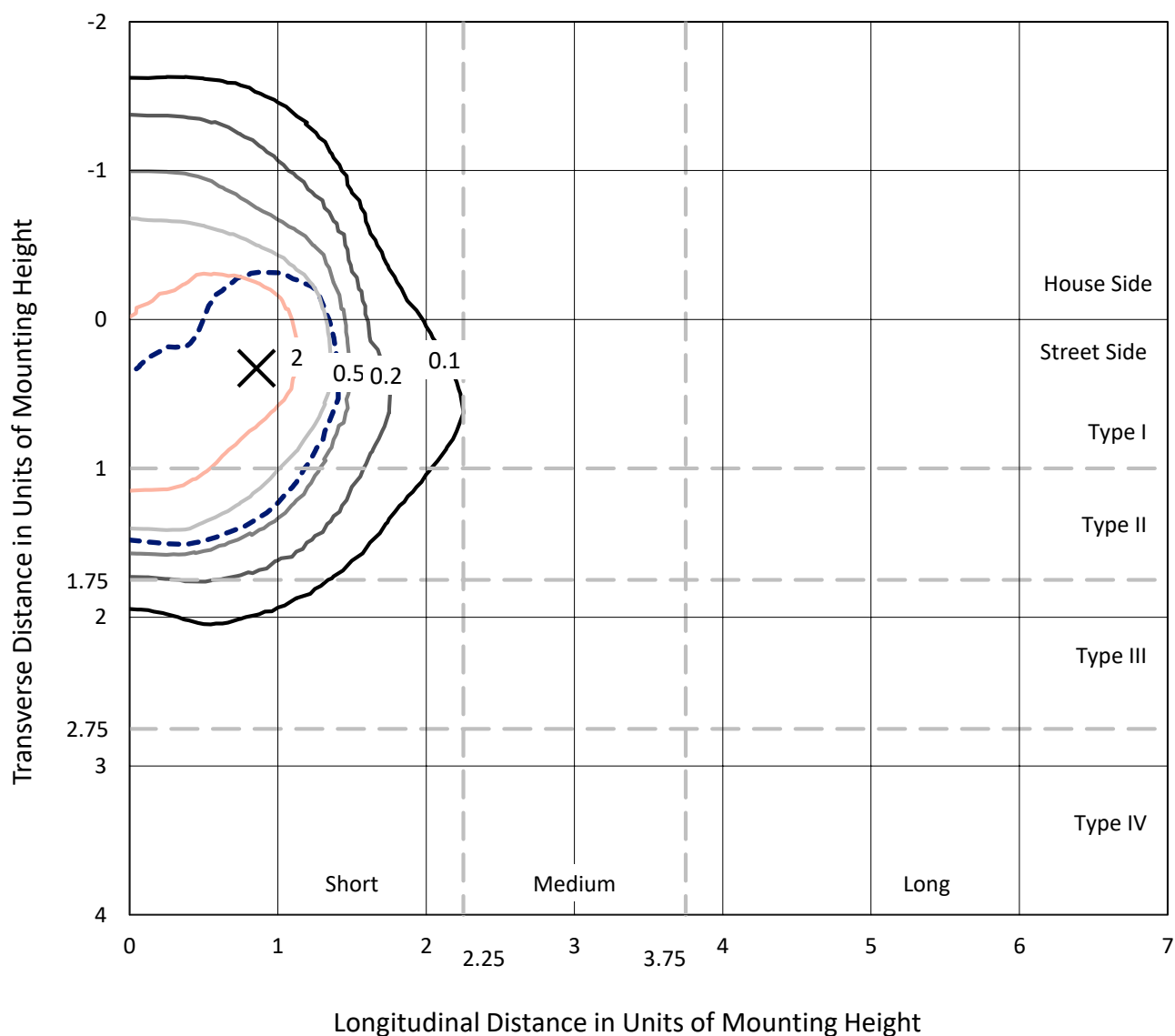


REPORT NUMBER: P266277

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-A-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

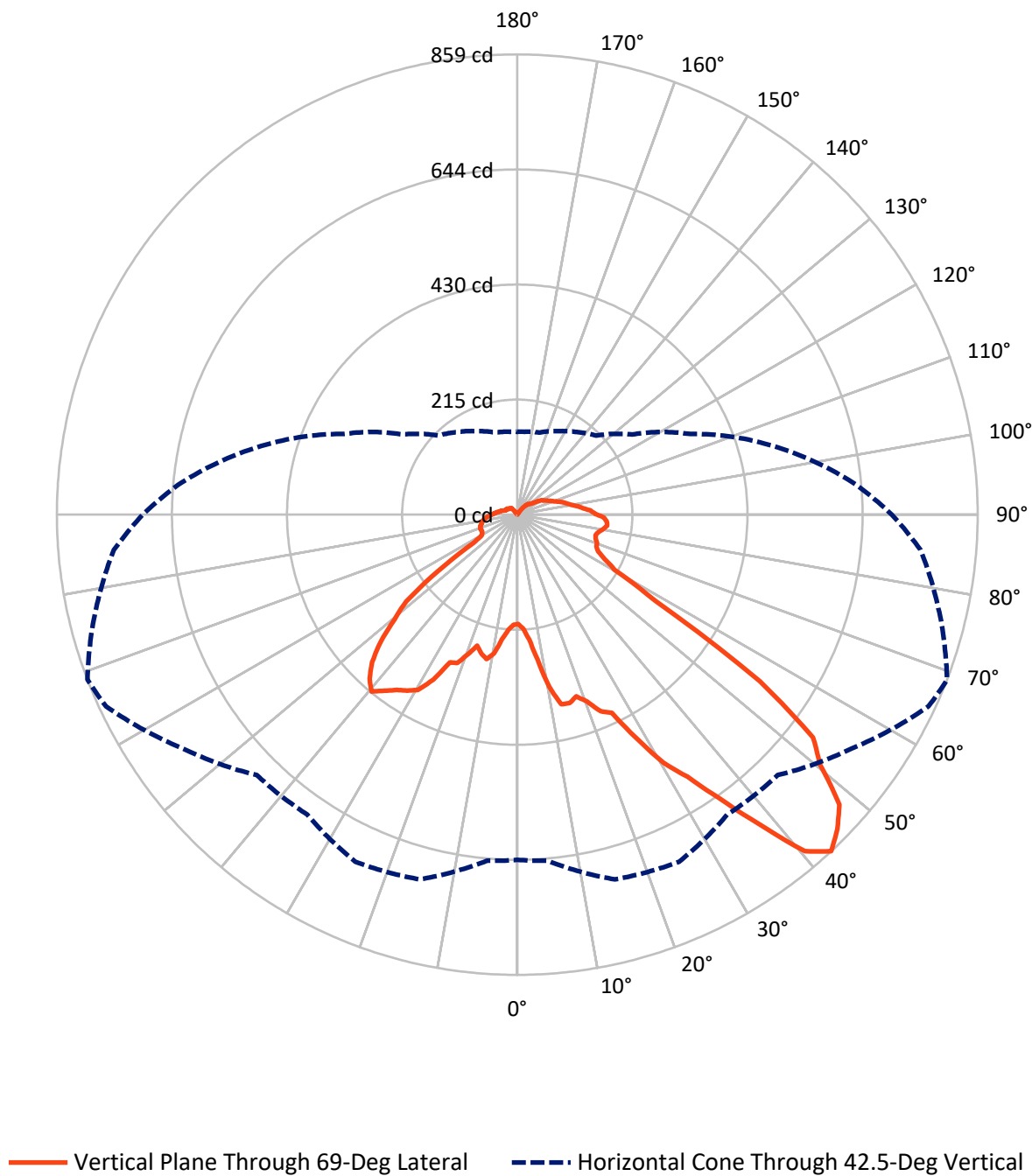


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
Type II - Short - Non-Cutoff

REPORT NUMBER: P266277

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-A-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266277

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-A-7027

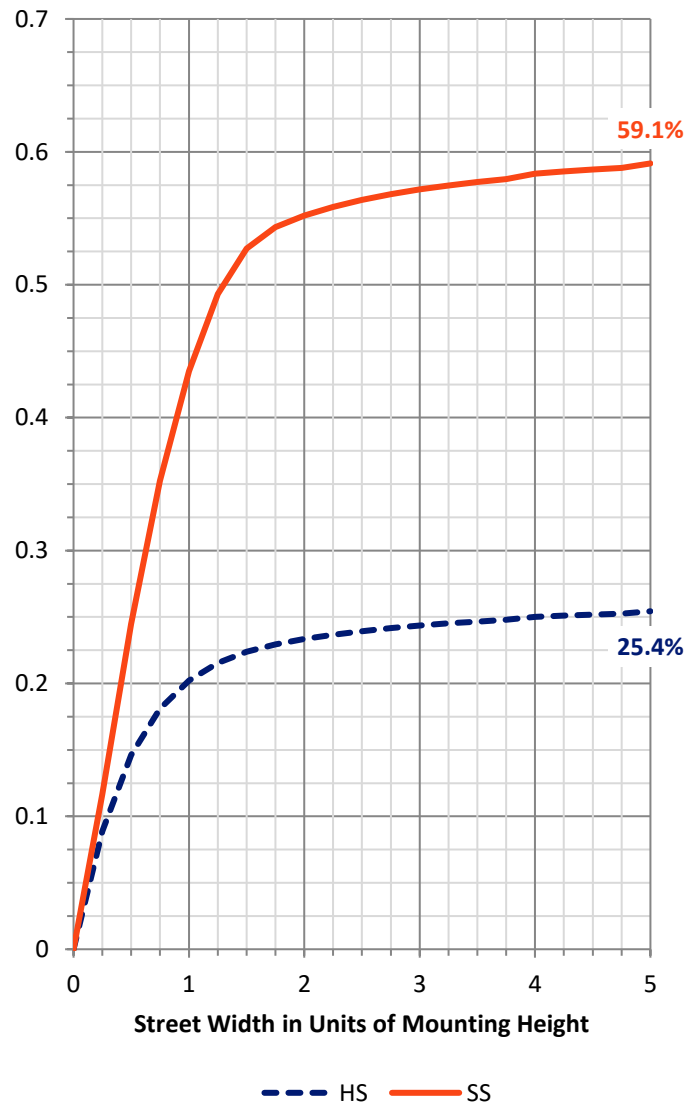
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	467.3	56.3	523.6
	% Fixture	26.3	3.2	29.5
Street Side	Lumens	1082.8	167.1	1249.9
	% Fixture	61.1	9.4	70.5
Total	Lumens	1550.2	223.3	1773.5
	% Fixture	87.4	12.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.2	1.3
10°-20°	85.3	4.8
20°-30°	174.5	9.8
30°-40°	293.5	16.5
40°-50°	388.5	21.9
50°-60°	280.2	15.8
60°-70°	110.1	6.2
70°-80°	99.2	5.6
80°-90°	96.7	5.5
90°-100°	81.5	4.6
100°-110°	58.0	3.3
110°-120°	39.1	2.2
120°-130°	25.5	1.4
130°-140°	15.3	0.9
140°-150°	3.9	0.2
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1550.2	87.4
0°-180°	1773.5	100.0

Coefficient of Utilization



REPORT NUMBER: P266277

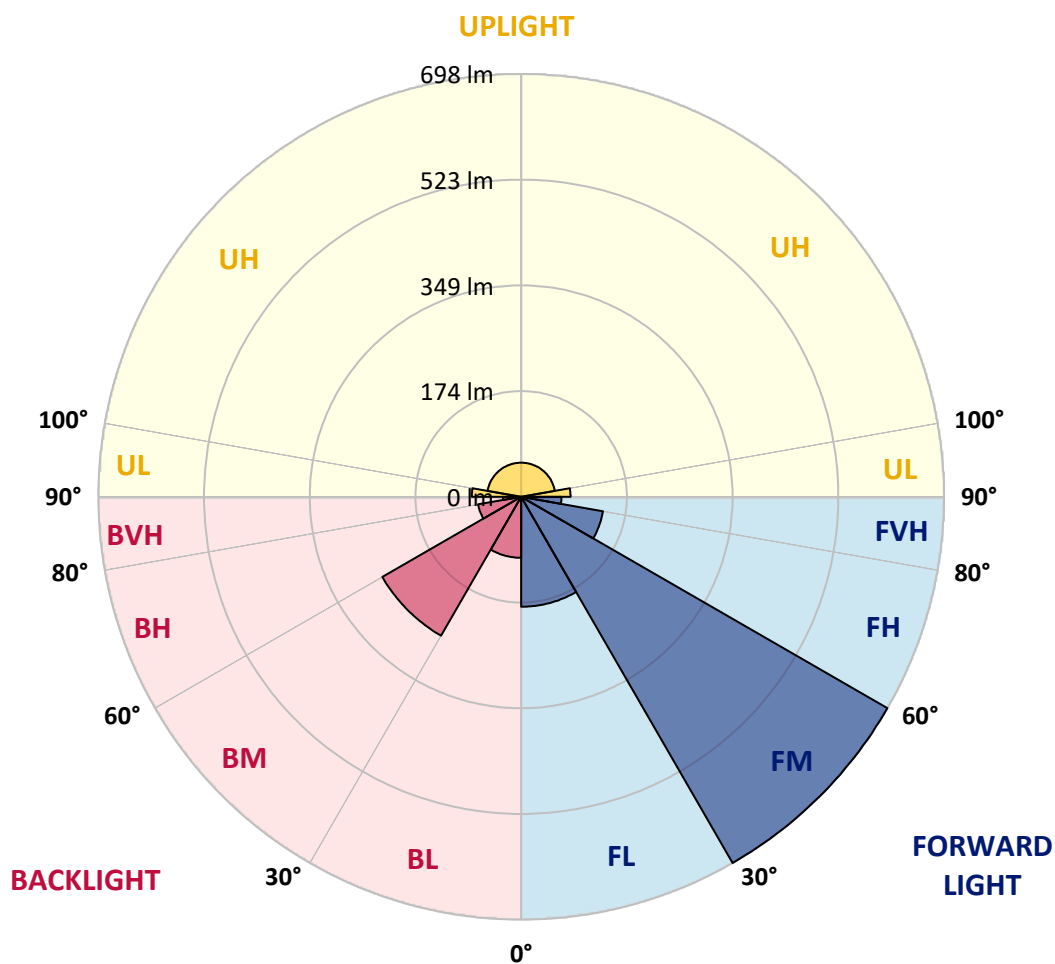
CATALOG NUMBER: UTLD-AF24-20-D-U-T3-A-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	181.4	10.2			
FM	(30°-60°)	697.7	39.3			
FH	(60°-80°)	137.1	7.7			G0/660
FVH	(80°-90°)	66.6	3.8			G1/100
BL	(0°-30°)	100.7	5.7	B0/110		
BM	(30°-60°)	264.5	14.9	B1/1000		
BH	(60°-80°)	72.1	4.1	B0/110		G0/110
BVH	(80°-90°)	30.1	1.7			G1/100
UL	(90°-100°)	81.5	4.6		U3/500	
UH	(100°-180°)	56.3	3.2		U3/500	

BUG Rating: B1-U3-G1

Type II Short





REPORT NUMBER: P266277

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-A-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	204.1	204.1	204.1	204.1	204.1	204.1	204.1	204.1	204.1	204.1	204.1
2.5°	217.4	216.1	215.7	215.7	215.0	214.7	215.1	214.4	213.3	213.0	211.6
5°	232.7	232.1	231.9	233.7	235.4	236.0	235.4	235.4	234.0	234.0	229.4
7.5°	256.9	256.2	258.2	263.1	264.7	269.9	275.8	272.1	273.2	270.5	261.8
10°	285.2	284.0	292.9	299.4	314.4	320.8	328.4	327.7	326.3	321.8	307.2
12.5°	310.9	310.1	321.8	345.4	365.4	385.7	387.3	370.7	363.3	346.7	328.7
15°	342.8	343.4	361.1	394.6	424.3	432.5	412.1	379.2	365.2	348.3	321.5
17.5°	394.1	396.5	426.4	464.7	484.5	451.4	407.4	369.7	356.4	338.1	312.3
20°	424.1	425.5	466.6	518.3	524.2	470.4	424.8	384.2	372.6	358.2	337.0
22.5°	442.0	447.3	494.3	557.7	554.3	514.9	451.6	413.2	398.7	378.9	361.6
25°	470.7	474.6	519.7	580.8	565.8	529.5	475.6	424.3	410.0	395.7	378.1
27.5°	509.6	513.2	564.0	599.2	583.4	548.8	511.2	478.4	470.9	468.6	461.0
30°	530.4	532.8	589.7	619.6	592.6	576.5	566.1	539.8	537.5	532.8	515.5
32.5°	542.1	551.4	617.6	634.7	599.7	597.7	604.0	587.9	583.4	575.3	555.4
35°	552.7	557.4	619.7	645.8	610.9	610.0	653.2	660.8	651.1	634.3	586.9
37.5°	634.7	636.9	679.6	670.5	625.9	631.2	702.6	741.5	732.7	711.6	679.1
40°	679.1	683.0	722.5	703.6	657.6	663.7	738.0	818.7	826.4	825.7	797.2
42.5°	644.5	648.7	705.0	715.1	683.5	687.6	761.3	846.9	859.3	821.4	755.7
45°	757.1	760.2	791.9	717.7	665.9	681.5	743.1	826.4	837.5	826.4	770.1
47.5°	756.9	753.0	779.3	725.2	664.7	654.0	703.7	787.0	809.1	783.7	722.5
50°	665.4	665.1	730.1	698.9	651.6	626.9	660.6	726.5	731.8	702.0	620.2
52.5°	581.1	580.6	655.8	639.8	608.8	584.6	605.5	671.2	691.4	665.4	597.1
55°	506.5	527.2	593.2	559.0	546.3	522.4	543.1	559.4	549.0	476.6	321.5
57.5°	306.7	329.7	415.6	440.3	443.1	426.1	378.9	323.6	303.7	242.7	144.8
60°	143.0	148.5	218.1	265.4	323.8	296.1	239.6	208.6	208.6	183.3	125.9
62.5°	100.7	104.6	143.2	171.2	193.9	191.2	170.0	174.5	183.1	171.8	121.2
65°	94.7	97.0	127.5	136.0	144.6	146.3	143.5	156.8	165.8	164.5	122.9
67.5°	87.9	91.1	116.4	122.0	128.7	132.0	134.0	149.5	159.2	164.5	127.7
70°	79.9	83.5	107.4	115.3	121.7	128.9	131.6	148.3	158.2	163.5	129.4
72.5°	72.5	75.5	95.6	105.3	116.9	125.4	136.0	146.2	152.9	158.5	130.4
75°	65.1	68.8	85.8	96.8	110.4	126.3	139.1	146.7	151.2	155.5	129.1
77.5°	60.4	64.3	77.6	90.3	106.4	128.5	143.0	152.6	155.2	156.0	127.7
80°	56.1	60.4	74.4	87.9	105.6	129.4	147.5	159.2	162.8	164.5	136.0
82.5°	59.2	63.1	75.1	91.5	108.7	129.1	146.3	164.7	168.8	167.9	138.6
85°	67.0	70.1	84.8	100.3	113.5	127.0	142.0	162.1	167.9	173.0	146.9
87.5°	81.3	82.9	93.5	107.6	118.5	122.9	137.9	156.8	162.1	163.8	143.0
90°	89.1	90.5	103.1	115.0	118.3	119.7	122.9	141.8	145.6	152.4	136.7
92.5°	98.1	98.1	111.1	118.0	118.0	112.1	114.3	131.2	137.7	141.6	127.0
95°	106.8	106.3	113.5	117.6	111.3	102.9	106.4	119.7	123.8	128.0	118.0
97.5°	109.5	109.1	113.5	111.1	100.7	92.7	97.3	108.7	113.0	117.4	107.3
100°	106.4	105.3	106.4	101.1	91.5	85.5	88.2	97.6	102.1	105.8	96.6
102.5°	100.3	99.5	100.0	94.7	84.5	77.3	80.8	90.8	94.2	97.0	88.9
105°	97.3	96.1	94.0	86.1	76.4	71.2	74.4	84.4	87.5	93.2	86.4
107.5°	82.9	81.8	80.2	76.0	71.0	67.2	69.8	76.7	78.7	81.7	75.4
110°	71.4	71.0	70.5	69.6	66.5	63.8	65.1	69.1	71.4	73.7	67.5



REPORT NUMBER: P266277

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-A-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
112.5°	69.1	68.4	67.8	66.1	62.1	59.2	60.1	64.5	65.9	66.7	59.8
115°	65.9	65.1	62.5	60.1	57.2	55.8	56.1	59.6	60.6	61.2	57.0
117.5°	58.4	57.8	56.1	55.1	53.4	52.6	53.9	55.8	56.1	56.2	52.6
120°	54.1	53.9	52.9	51.3	49.9	48.2	50.2	52.1	52.9	53.5	51.3
122.5°	49.2	48.8	47.8	45.6	45.6	44.6	44.5	45.6	46.0	47.8	46.6
125°	43.5	42.9	42.0	40.1	42.5	42.5	40.9	38.2	38.8	40.6	39.6
127.5°	38.8	38.4	37.4	36.6	39.9	41.1	38.2	33.3	33.7	34.2	33.5
130°	38.2	37.6	36.6	34.8	35.8	39.3	34.2	30.5	31.1	31.6	31.1
132.5°	37.4	37.2	35.6	33.3	32.1	35.6	29.7	28.7	29.5	30.3	29.7
135°	35.0	34.8	33.3	30.3	26.8	28.4	23.6	25.2	26.3	27.3	26.8
137.5°	31.1	30.9	29.7	26.6	22.0	20.5	18.1	21.5	22.5	23.6	23.6
140°	25.2	24.9	23.6	20.5	15.5	10.9	11.6	16.3	17.3	18.9	19.0
142.5°	18.3	17.8	16.7	13.7	8.8	3.7	6.5	9.9	11.0	12.5	13.6
145°	12.5	12.2	10.6	8.3	4.1	0.4	3.0	6.1	6.7	7.7	8.8
147.5°	7.9	7.9	6.7	4.6	1.2	0.4	0.7	3.1	3.9	4.9	5.6
150°	4.9	4.9	3.7	1.4	0.2	0.2	0.2	0.4	1.2	2.2	3.0
152.5°	1.2	1.2	0.7	0.4	0.2	0.0	0.2	0.2	0.2	0.2	0.4
155°	0.4	0.4	0.4	0.2	0.0	0.0	0.0	0.2	0.2	0.2	0.2
157.5°	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.2	0.2	0.2	0.0	0.2	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: P266277

CATALOG NUMBER: UTLD-AF24-20-D-U-T3-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	204.1	204.1	204.1	204.1	204.1	204.1	204.1	204.1	204.1	204.1	204.1
2.5°	210.8	209.3	207.5	204.9	202.2	199.5	196.8	195.4	194.7	194.2	193.9
5°	228.2	225.0	220.1	213.0	204.4	199.2	195.7	191.2	188.4	187.3	186.7
7.5°	258.9	253.9	243.7	228.7	218.1	203.0	190.4	182.0	176.1	172.7	172.7
10°	299.9	292.7	275.2	254.6	227.2	201.0	181.1	166.1	159.2	156.2	155.5
12.5°	318.1	311.1	290.3	266.3	237.4	206.7	181.5	163.8	155.2	152.0	152.4
15°	308.8	299.2	281.3	258.9	236.2	216.9	195.9	173.6	159.2	155.2	156.5
17.5°	299.8	289.9	270.7	245.9	223.7	210.8	196.1	181.1	167.4	161.9	160.8
20°	326.5	319.3	293.4	265.2	231.9	199.5	189.2	182.4	177.8	178.0	175.8
22.5°	352.1	342.3	318.5	285.4	249.5	221.3	204.4	195.4	190.4	192.4	192.7
25°	369.3	361.7	326.8	287.2	257.3	236.2	211.8	199.2	190.8	190.8	189.8
27.5°	456.5	437.8	382.3	321.8	276.9	242.3	212.8	198.3	187.7	184.5	185.1
30°	502.2	483.7	420.1	346.6	299.8	256.7	215.5	193.0	190.4	188.1	188.9
32.5°	541.1	514.2	439.0	353.0	295.6	258.9	221.3	194.2	181.4	179.2	180.2
35°	560.5	530.4	454.1	358.9	297.5	249.6	214.2	189.2	180.9	178.8	179.4
37.5°	649.7	604.5	477.7	367.5	297.1	237.6	204.9	184.5	169.3	162.8	162.8
40°	752.1	685.6	519.0	367.0	278.7	227.2	194.5	175.6	163.5	158.5	158.2
42.5°	698.9	635.6	494.8	356.2	260.8	208.4	188.6	171.8	158.7	155.2	154.6
45°	721.1	653.4	477.4	325.7	234.0	193.4	174.8	163.0	148.0	140.3	140.0
47.5°	650.6	596.3	442.0	287.2	210.8	170.0	158.5	150.6	141.3	134.7	134.0
50°	564.3	509.6	371.9	254.6	179.8	150.6	142.7	138.9	129.4	122.0	122.4
52.5°	539.3	472.9	324.1	222.2	154.6	131.4	127.5	123.2	113.7	105.0	106.0
55°	267.3	221.4	197.1	172.7	129.6	114.3	112.6	110.0	100.5	93.0	93.2
57.5°	124.7	107.4	94.2	100.3	97.8	99.3	98.5	96.8	87.9	77.3	76.5
60°	111.6	95.6	79.9	75.8	80.4	86.6	86.1	80.8	69.6	57.0	55.5
62.5°	107.6	91.5	77.6	71.4	73.4	77.6	74.6	67.8	58.7	47.2	46.8
65°	109.7	92.4	77.3	69.8	71.2	72.9	68.8	64.0	58.4	50.5	50.5
67.5°	113.7	96.1	79.1	69.1	69.8	71.4	67.6	64.3	61.4	56.1	56.1
70°	115.0	97.8	79.9	69.3	68.6	70.1	67.5	64.3	62.5	58.2	58.0
72.5°	115.4	98.8	79.5	68.1	66.5	67.6	65.7	64.3	63.5	60.1	59.6
75°	113.2	97.8	77.1	65.4	63.8	64.3	63.8	63.5	64.5	62.3	61.5
77.5°	110.6	96.4	75.1	62.5	60.6	60.8	60.4	61.2	62.1	60.6	59.4
80°	116.2	100.5	75.4	60.4	56.8	55.5	55.8	56.6	57.8	54.5	52.9
82.5°	118.0	100.7	72.0	55.5	50.9	49.2	49.8	51.7	52.6	49.8	48.1
85°	125.4	105.3	69.6	51.3	46.0	44.1	44.6	46.0	45.5	42.0	40.6
87.5°	122.4	102.1	65.1	46.2	41.9	40.3	40.6	41.1	39.3	35.0	33.7
90°	118.3	98.5	60.4	40.6	36.9	36.6	36.0	35.3	32.3	27.8	26.6
92.5°	110.9	91.9	56.1	36.7	32.9	32.6	31.9	30.5	27.8	23.1	22.0
95°	104.6	86.1	51.9	33.5	29.5	28.4	28.4	27.0	24.2	20.3	19.9
97.5°	94.2	78.5	47.8	30.9	26.3	25.3	25.2	24.2	22.0	19.0	18.9
100°	85.2	71.0	43.5	27.9	23.6	22.6	22.2	21.6	20.0	18.3	18.3
102.5°	79.1	65.7	40.6	25.6	21.3	20.3	20.3	19.9	18.9	17.6	17.6
105°	77.3	64.5	39.3	23.4	18.9	18.3	18.5	18.5	17.8	17.2	17.2
107.5°	67.2	55.5	33.7	20.8	17.2	16.7	16.9	17.2	16.9	16.7	16.7
110°	59.8	50.5	31.4	19.6	16.2	15.5	15.5	15.5	15.5	15.7	15.9



REPORT NUMBER: P266277

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	53.5	44.9	28.7	18.5	15.2	14.6	14.3	14.1	13.7	14.7	14.7
115°	51.3	43.7	27.9	18.1	14.6	13.7	13.0	12.5	12.0	12.8	13.0
117.5°	47.6	41.1	27.3	18.1	14.3	13.0	12.2	11.6	10.9	11.6	11.6
120°	46.6	40.9	27.8	18.3	13.7	12.0	11.4	10.4	9.9	10.6	10.9
122.5°	42.9	38.2	26.3	17.3	13.2	11.6	10.9	9.0	9.0	9.4	9.6
125°	36.6	32.3	22.6	15.7	12.5	11.6	10.6	7.9	8.3	8.8	8.8
127.5°	31.1	27.9	20.8	15.2	12.8	11.9	9.9	7.5	7.9	8.8	8.8
130°	29.5	26.8	21.0	15.9	13.2	12.0	8.3	6.5	7.7	8.4	8.4
132.5°	28.2	26.1	21.0	16.7	13.7	11.0	6.5	5.7	6.5	6.9	6.9
135°	25.6	24.2	20.0	15.9	12.5	8.8	5.3	5.1	6.1	6.5	6.5
137.5°	22.9	21.5	18.3	14.7	11.0	6.9	3.9	4.6	5.1	5.6	5.6
140°	18.9	17.8	15.2	12.0	8.3	3.9	3.0	3.7	4.3	4.9	4.9
142.5°	13.2	12.8	10.6	7.7	4.6	1.4	1.9	2.6	3.1	3.7	3.7
145°	8.8	8.3	6.7	4.9	1.9	0.4	1.2	1.6	2.4	2.6	2.6
147.5°	5.6	5.3	4.1	2.4	0.7	0.4	0.4	1.2	1.9	2.2	2.2
150°	2.6	2.4	1.6	0.7	0.4	0.2	0.2	0.4	1.2	1.4	1.4
152.5°	0.4	0.4	0.4	0.2	0.2	0.0	0.0	0.2	0.2	0.4	0.4
155°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.2	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	0.2	0.2	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)