

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: P241128

Luminaire Tested: **UTLD-AF24-40-D-U-T2U-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241128
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-AF24-40-D-U-T2U-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 500mA 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: 4201.3 lumens
Efficiency: N/A
Efficacy: 105.0 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 - U2 - G2

Input Watts (W): 40
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

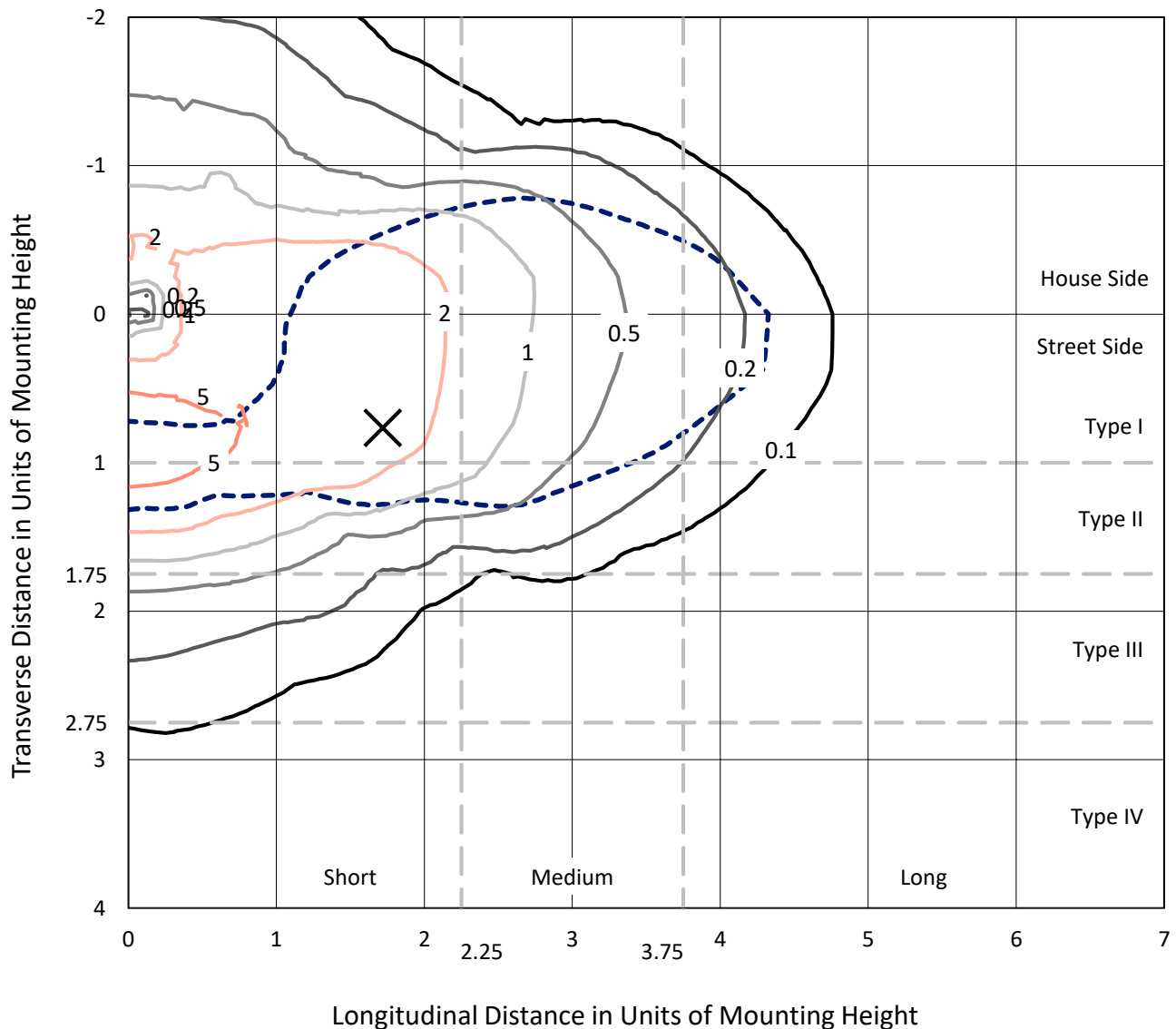


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

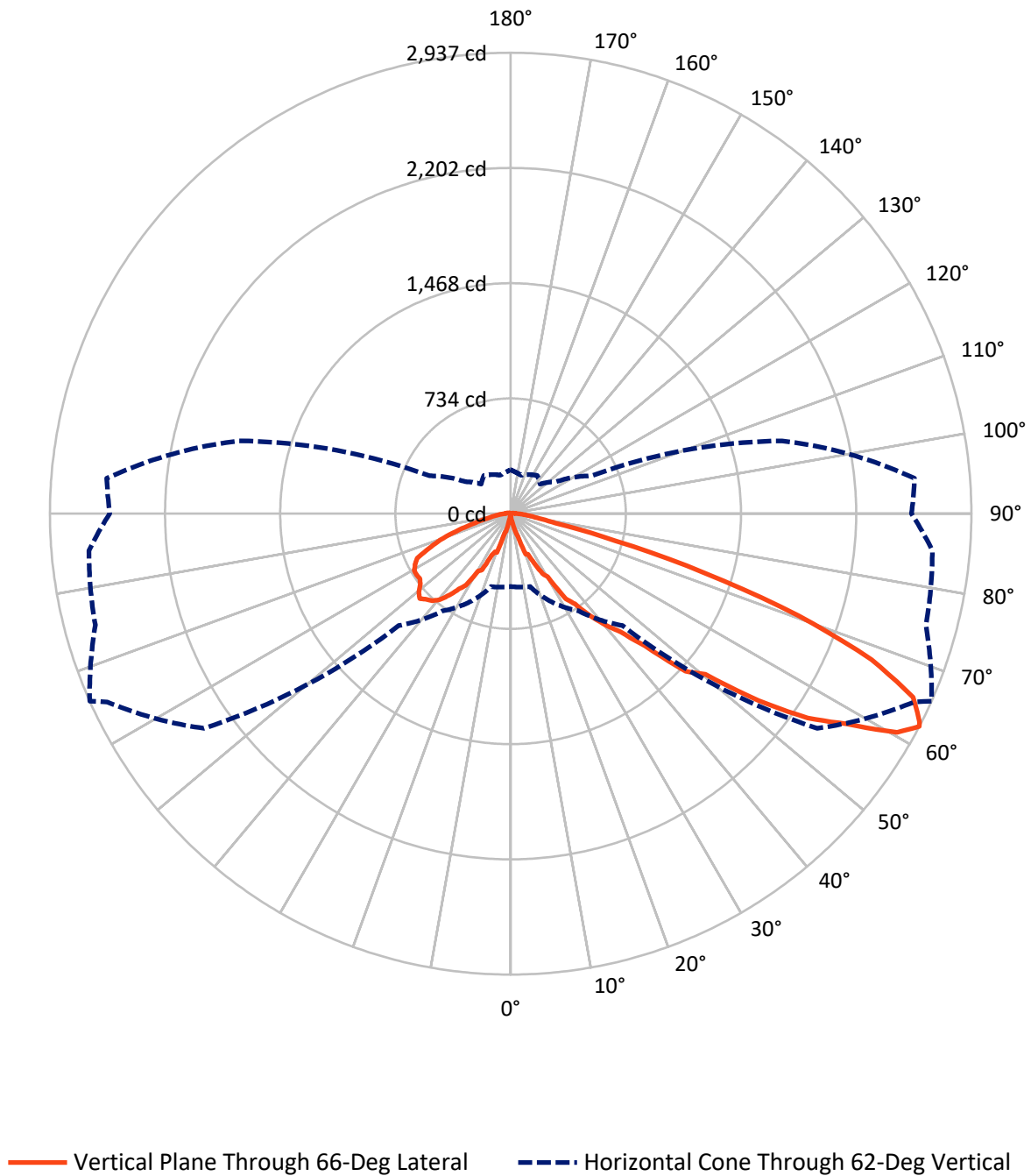


Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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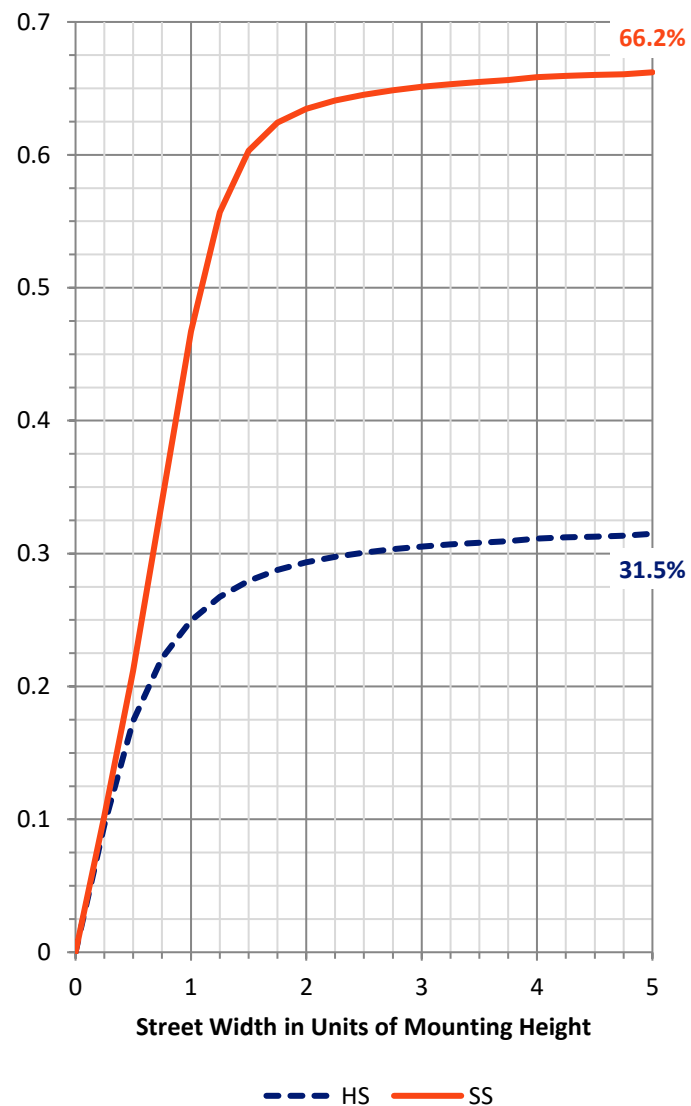
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1347.6	32.1	1379.8
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	2797.9	23.6	2821.5
	% Fixture	66.6	0.6	67.2
Total	Lumens	4145.5	55.8	4201.3
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.1
10°-20°	42.6	1.0
20°-30°	168.9	4.0
30°-40°	420.8	10.0
40°-50°	802.5	19.1
50°-60°	1094.4	26.0
60°-70°	1005.4	23.9
70°-80°	512.9	12.2
80°-90°	94.3	2.2
90°-100°	24.9	0.6
100°-110°	12.0	0.3
110°-120°	7.3	0.2
120°-130°	5.6	0.1
130°-140°	3.7	0.1
140°-150°	1.8	0.0
150°-160°	0.4	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	4145.5	98.7
0°-180°	4201.3	100.0

Coefficient of Utilization



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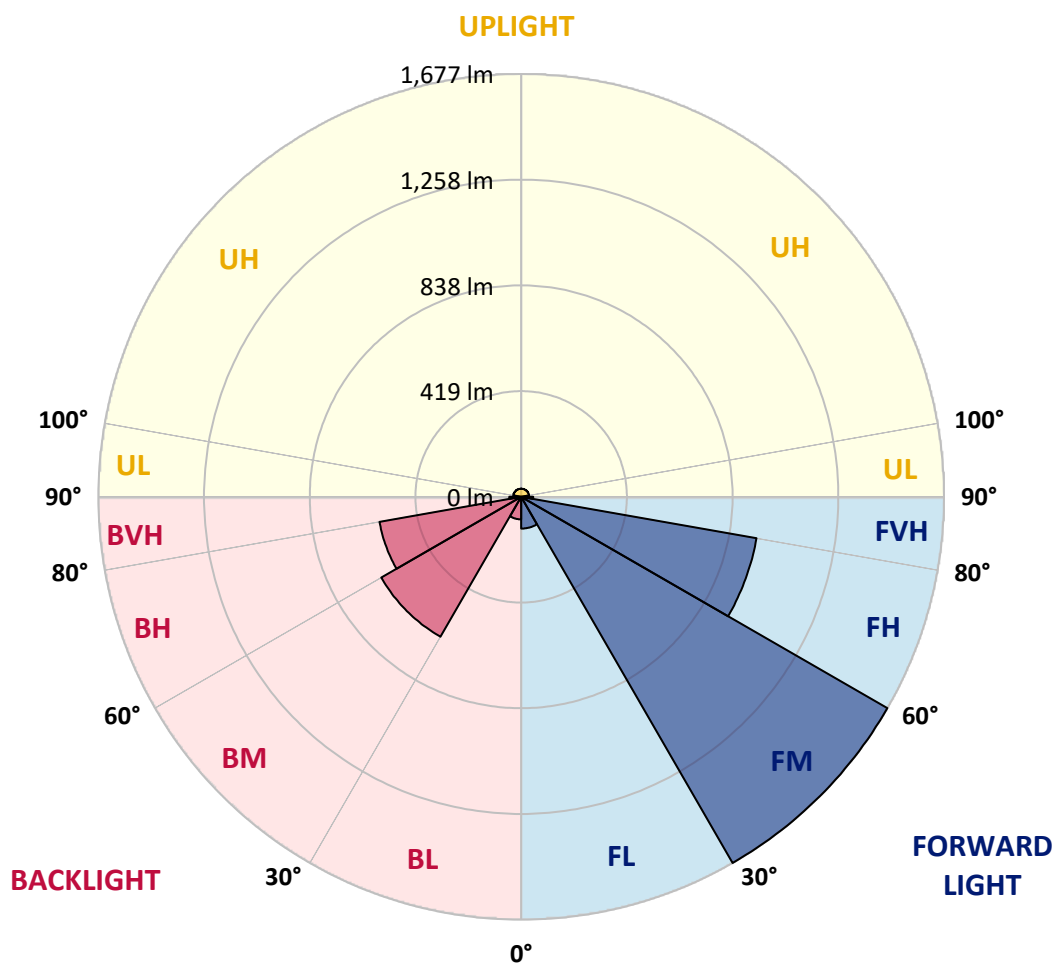
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	125.9	3.0			
FM	(30°-60°)	1677.0	39.9			
FH	(60°-80°)	947.7	22.6			G1/1800
FVH	(80°-90°)	47.3	1.1			G1/100
BL	(0°-30°)	89.3	2.1	B0/110		
BM	(30°-60°)	640.7	15.3	B1/1000		
BH	(60°-80°)	570.5	13.6	B2/1000		G2/1000
BVH	(80°-90°)	47.0	1.1			G1/100
UL	(90°-100°)	24.9	0.6		U2/50	
UH	(100°-180°)	32.1	0.8		U2/50	

BUG Rating: B2-U2-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
2.5°	52.3	49.6	37.2	32.6	27.4	22.2	17.1	14.5	14.0	12.9	11.9
5°	52.3	52.3	53.8	56.9	63.1	57.4	60.6	21.7	20.7	14.0	11.4
7.5°	99.8	97.3	122.0	86.3	54.3	50.7	77.0	47.1	47.1	21.7	12.9
10°	135.0	134.5	165.0	105.6	97.3	117.9	52.3	53.8	53.8	37.2	18.1
12.5°	132.4	131.3	133.5	145.4	122.0	103.4	105.0	68.8	85.8	135.5	139.1
15°	186.2	196.0	185.7	142.3	130.3	129.8	167.6	127.3	129.3	148.9	109.1
17.5°	248.3	249.3	271.6	230.7	181.6	191.9	177.4	177.9	157.2	165.0	184.6
20°	270.6	265.9	278.2	258.1	258.1	229.7	181.1	256.6	275.7	259.1	256.0
22.5°	464.5	462.4	404.5	282.9	292.8	268.4	274.2	299.0	280.9	263.8	259.1
25°	529.7	522.9	502.8	482.6	359.0	376.5	332.0	324.8	345.0	416.3	450.5
27.5°	704.5	712.3	608.2	543.1	484.2	405.0	379.6	466.6	432.9	455.7	450.5
30°	886.6	882.4	845.7	726.2	608.2	502.8	503.8	489.8	467.1	536.9	609.9
32.5°	1149.4	1162.8	994.7	869.5	760.4	611.9	554.5	651.2	647.1	626.9	654.3
35°	1432.7	1430.7	1293.1	1086.8	822.5	692.1	662.6	720.1	706.0	675.0	725.7
37.5°	1612.8	1592.6	1499.0	1321.6	1005.6	788.8	799.1	841.1	827.1	786.2	879.8
40°	1873.5	1851.2	1739.5	1498.5	1253.8	955.8	1014.4	980.2	934.7	927.4	939.4
42.5°	1969.2	1970.2	1861.1	1685.7	1469.5	1194.8	1225.4	1075.3	1029.3	1106.4	1080.5
45°	1999.2	1995.1	1919.1	1787.6	1609.7	1480.4	1383.1	1248.6	1202.1	1272.4	1300.4
47.5°	1933.5	1916.9	1929.4	1782.5	1757.6	1605.0	1584.9	1489.7	1500.1	1460.2	1525.9
50°	1757.1	1732.8	1765.4	1727.2	1833.1	1740.0	1974.9	1614.3	1608.7	1680.6	1762.2
52.5°	1483.5	1465.4	1570.9	1539.3	1816.6	1887.4	2052.4	1973.3	1978.5	1985.2	1940.7
55°	1215.6	1224.9	1305.6	1287.0	1577.1	1919.6	2311.6	2267.7	2297.6	2131.1	2131.6
57.5°	868.0	888.6	1034.0	1044.8	1314.4	1688.3	2519.5	2449.1	2526.3	2370.6	2405.3
60°	597.9	610.4	689.0	798.6	986.4	1401.7	2408.8	2759.5	2829.4	2614.2	2612.6
62°	464.0	469.1	481.1	621.2	757.3	1007.6	2384.5	2837.7	2936.5	2740.4	2698.0
62.5°	430.4	436.1	443.8	563.9	698.3	916.1	2293.5	2854.7	2925.0	2756.4	2712.5
65°	344.5	347.1	329.5	375.0	493.5	547.3	1648.0	2774.5	2819.6	2736.8	2670.6
67.5°	319.2	309.9	285.5	273.1	369.3	352.8	896.9	2364.9	2481.3	2619.4	2550.6
70°	264.3	285.0	265.4	244.2	294.8	271.1	380.7	1913.8	1946.5	2398.0	2388.7
72.5°	202.2	217.3	232.7	230.2	227.1	218.3	253.0	1195.9	1291.6	1968.2	2211.8
75°	164.0	170.2	202.7	196.0	201.7	172.8	199.2	568.5	687.9	1393.0	1923.7
77.5°	131.9	136.1	157.7	152.1	167.0	135.0	158.8	257.6	291.7	800.7	1317.5
80°	87.5	89.5	114.9	113.8	122.0	119.5	120.0	180.6	182.6	374.5	689.5
82.5°	65.2	64.1	79.2	79.7	79.2	86.3	82.2	123.7	128.8	183.6	229.1
85°	42.5	40.8	47.1	50.1	48.1	47.6	62.1	86.8	90.5	130.8	136.6
87.5°	23.3	24.9	31.0	31.0	32.6	32.1	50.7	57.9	60.6	87.5	73.4
90°	15.5	15.5	17.1	16.6	17.6	17.1	26.4	34.2	34.7	44.0	39.3
92.5°	14.0	15.0	17.1	17.1	18.6	16.1	23.8	28.9	29.5	35.7	30.0
95°	12.4	12.9	14.5	15.0	16.1	11.4	18.1	23.8	24.3	29.5	24.3
97.5°	10.3	11.4	12.4	12.9	14.5	10.3	15.0	19.1	19.6	22.7	18.6
100°	10.3	10.8	10.8	10.8	12.4	8.8	12.9	16.6	17.1	18.6	15.5
102.5°	9.8	10.3	9.8	9.3	10.3	7.8	11.4	14.0	14.0	13.4	12.9
105°	9.8	9.8	8.3	7.3	8.8	7.3	9.8	10.3	10.3	10.3	11.9
107.5°	9.3	9.3	7.8	6.8	7.3	6.2	8.3	8.8	8.8	9.3	11.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	8.8	8.3	6.8	5.7	5.7	5.7	6.8	7.3	7.3	8.3	11.9
112.5°	7.8	7.8	5.7	5.2	5.2	5.2	6.2	6.8	6.8	7.8	11.4
115°	7.3	7.3	5.7	4.7	4.7	4.7	5.7	6.2	6.2	7.3	11.4
117.5°	7.8	7.3	5.2	4.7	4.1	4.1	4.7	5.7	5.7	7.3	11.4
120°	6.8	6.8	5.2	4.1	3.6	4.1	4.7	5.2	5.7	7.8	11.4
122.5°	7.3	6.8	5.2	3.6	3.6	3.6	4.1	5.2	5.2	7.3	10.3
125°	6.8	6.2	4.7	3.6	3.1	3.6	4.1	4.7	5.2	7.3	10.3
127.5°	6.8	6.2	4.7	3.6	3.1	3.1	4.1	4.7	4.7	6.8	9.8
130°	6.2	6.2	4.1	3.1	3.1	3.1	3.6	4.1	4.1	6.2	8.8
132.5°	5.7	5.2	4.1	3.1	2.6	3.1	3.6	3.6	3.6	5.7	8.3
135°	5.2	5.2	4.1	3.1	2.6	2.6	3.1	3.6	3.6	5.2	7.3
137.5°	4.7	4.7	4.1	3.1	2.6	2.6	2.6	3.1	3.1	4.7	6.2
140°	4.7	4.7	4.1	3.1	2.6	2.6	2.6	2.6	2.6	3.6	5.2
142.5°	4.7	4.7	4.1	3.1	2.6	2.0	2.0	2.0	2.0	3.1	4.1
145°	4.1	4.1	3.6	3.1	2.0	1.5	1.5	2.0	2.0	2.6	3.1
147.5°	4.1	4.1	3.6	2.6	1.5	1.0	1.0	1.5	1.5	2.0	2.6
150°	3.1	3.1	3.1	2.0	1.0	0.0	1.0	1.0	1.0	2.0	2.0
152.5°	2.0	2.0	1.5	1.0	0.5	0.5	0.5	1.0	1.0	1.0	1.5
155°	1.0	1.0	1.0	0.5	0.5	0.0	0.0	0.5	0.5	1.0	1.0
157.5°	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.5	0.5	0.5	0.5
160°	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.5	0.5	0.5	0.5
162.5°	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.5	0.5	0.5	0.5
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
2.5°	11.9	11.4	11.4	11.4	11.9	11.9	11.9	11.4	10.8	10.8	10.8
5°	10.8	10.3	10.3	10.3	10.8	10.8	10.8	10.8	10.8	10.8	10.8
7.5°	11.9	10.8	10.8	10.3	10.3	10.8	11.9	17.6	30.5	43.0	50.1
10°	16.6	16.6	14.5	13.4	13.4	19.6	72.9	79.2	79.2	75.0	72.4
12.5°	150.0	118.5	104.4	36.7	30.0	61.1	69.9	65.7	91.0	106.1	112.2
15°	108.6	119.0	128.3	115.4	155.7	65.2	105.6	128.3	172.8	174.8	176.4
17.5°	182.6	197.1	142.3	124.2	145.4	192.9	157.7	163.5	163.5	163.5	164.0
20°	257.1	261.8	273.1	261.3	145.9	203.3	202.2	164.5	185.2	230.7	243.7
22.5°	273.1	282.4	268.9	260.6	308.3	189.9	209.0	261.8	264.8	252.5	258.6
25°	463.5	450.0	395.2	278.2	307.8	265.4	270.0	245.2	252.0	244.7	249.3
27.5°	459.8	452.6	408.7	401.4	323.3	313.9	250.8	282.9	300.5	311.9	309.9
30°	642.4	600.1	473.3	414.3	381.8	300.5	275.7	267.9	265.9	279.4	280.4
32.5°	645.5	639.3	545.2	535.9	392.6	304.1	260.1	244.7	279.4	298.0	294.8
35°	749.0	716.9	623.3	578.3	451.0	286.0	232.2	244.7	250.3	263.8	263.3
37.5°	841.6	831.8	755.1	638.8	434.4	260.6	262.3	260.6	254.0	256.0	256.0
40°	964.6	910.3	842.1	695.2	406.5	279.4	282.9	246.2	239.5	235.9	235.9
42.5°	1111.0	1019.0	955.8	722.6	386.4	329.0	267.9	240.5	233.8	223.4	221.9
45°	1283.8	1169.5	1074.8	731.4	324.3	340.8	278.2	273.6	251.3	242.0	238.4
47.5°	1435.4	1343.3	1211.9	745.8	376.0	325.4	366.2	310.9	242.5	256.0	254.0
50°	1663.0	1544.6	1308.1	709.1	401.9	316.1	380.7	272.1	249.8	267.9	266.9
52.5°	1864.2	1751.4	1409.0	653.8	380.2	437.1	337.8	311.9	289.7	280.4	279.4
55°	2074.7	1961.9	1477.2	625.8	375.5	349.6	351.2	337.8	261.8	281.9	281.4
57.5°	2316.8	2254.7	1625.8	614.0	384.8	308.8	351.2	282.4	298.5	281.9	285.0
60°	2446.1	2446.1	1712.1	602.1	355.4	317.1	301.6	310.4	259.1	262.3	270.6
62°	2554.7	2583.7	1791.3	570.5	354.4	265.9	296.3	274.2	253.5	268.9	279.4
62.5°	2591.4	2613.6	1815.0	564.4	363.1	252.0	274.7	273.6	262.8	264.8	274.2
65°	2627.1	2730.1	1871.9	525.0	334.1	237.9	234.9	259.6	227.6	217.8	218.3
67.5°	2593.0	2734.8	1852.8	422.6	271.1	204.3	207.5	216.8	205.3	201.7	203.8
70°	2468.4	2525.8	1657.8	348.6	233.8	187.2	199.2	191.4	188.3	187.8	187.2
72.5°	2297.6	2188.5	1301.9	262.3	201.2	162.4	170.7	176.4	177.4	174.8	171.8
75°	1938.2	1718.9	849.4	196.5	160.9	137.6	155.7	160.4	164.5	157.2	154.7
77.5°	1330.3	1083.6	439.7	156.2	139.1	115.4	136.6	143.8	147.9	137.1	138.6
80°	617.6	494.5	203.3	127.8	115.4	95.6	115.9	125.2	130.8	116.4	111.2
82.5°	208.5	190.4	122.5	98.8	94.6	72.9	93.6	104.4	106.1	96.8	82.2
85°	124.2	124.7	85.8	76.0	69.9	45.5	67.2	82.2	82.2	68.2	55.9
87.5°	71.4	80.2	65.7	57.9	52.3	31.0	50.1	56.4	55.3	43.5	31.0
90°	35.7	41.9	38.8	38.3	39.3	19.6	39.3	42.5	42.5	30.0	19.1
92.5°	26.4	32.1	34.7	32.6	33.1	15.0	31.5	32.1	31.5	23.3	15.0
95°	22.2	27.9	34.7	32.6	31.5	12.4	28.9	29.5	30.0	22.7	16.6
97.5°	17.6	21.2	26.9	26.4	28.4	10.3	26.4	26.4	25.4	18.6	14.0
100°	16.1	18.6	22.7	22.7	24.9	9.3	23.3	21.2	20.2	15.0	12.9
102.5°	13.4	15.0	17.6	17.1	18.6	8.8	17.1	16.6	15.5	12.9	12.4
105°	12.9	13.4	13.4	12.4	12.9	8.3	11.9	11.4	10.8	10.8	11.4
107.5°	12.4	12.4	11.4	10.3	10.3	7.8	8.8	8.3	8.8	11.4	11.9



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CATALOG NUMBER: UTLD-AF24-40-D-U-T2U-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	12.4	12.4	10.3	9.3	8.3	7.3	7.8	6.8	7.8	11.4	12.4
112.5°	12.4	12.4	9.3	7.8	7.8	6.8	6.8	6.2	7.3	11.4	12.4
115°	11.9	11.9	8.8	7.3	6.8	6.2	6.2	5.7	7.3	11.4	12.4
117.5°	11.9	11.9	8.8	7.3	6.2	5.7	5.7	5.2	7.3	11.9	12.4
120°	11.9	11.9	8.8	6.8	6.2	5.7	5.2	5.2	7.3	11.4	12.4
122.5°	11.4	10.8	8.3	6.2	5.7	5.2	5.2	5.2	7.3	11.9	12.4
125°	10.8	10.3	8.3	6.2	5.2	5.2	4.7	4.7	7.3	11.4	11.9
127.5°	10.3	10.3	7.8	5.7	5.2	4.7	4.7	4.7	7.3	11.9	11.9
130°	9.8	9.3	7.3	5.2	4.7	4.1	4.1	4.7	7.8	10.8	11.4
132.5°	8.8	8.3	6.8	4.7	4.1	4.1	4.1	4.1	7.3	10.8	10.8
135°	7.3	7.3	5.7	4.1	3.6	3.6	3.6	4.1	6.8	9.3	9.8
137.5°	6.8	6.2	5.2	4.1	3.1	3.6	3.6	4.1	6.8	8.8	9.3
140°	5.7	5.2	4.1	3.1	3.1	3.1	3.1	3.6	5.7	7.8	8.3
142.5°	4.1	4.1	3.6	2.6	2.6	2.6	2.6	3.6	5.2	6.8	6.8
145°	3.6	3.6	3.1	2.6	2.0	1.5	1.5	2.6	4.1	5.7	5.7
147.5°	2.6	2.6	2.6	2.0	1.5	1.5	1.5	2.0	3.1	4.1	4.1
150°	2.0	2.0	2.0	1.5	1.5	1.0	1.0	1.5	2.6	3.1	3.1
152.5°	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.5	2.0	2.0
155°	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	1.0	1.0
157.5°	0.5	0.5	0.5	1.0	1.0	1.0	0.5	0.5	0.0	0.0	0.0
160°	0.5	0.5	0.5	1.0	1.0	1.0	0.5	0.5	0.0	0.0	0.0
162.5°	0.5	0.5	0.5	0.5	1.0	1.0	0.5	0.5	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)