

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: P266354

Luminaire Tested: **UTLD-AF24-40-D-U-T4W-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-47)
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-T4W-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3571.7 lumens
Efficiency: N/A
Efficacy: 89.3 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 - U2 - G1

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

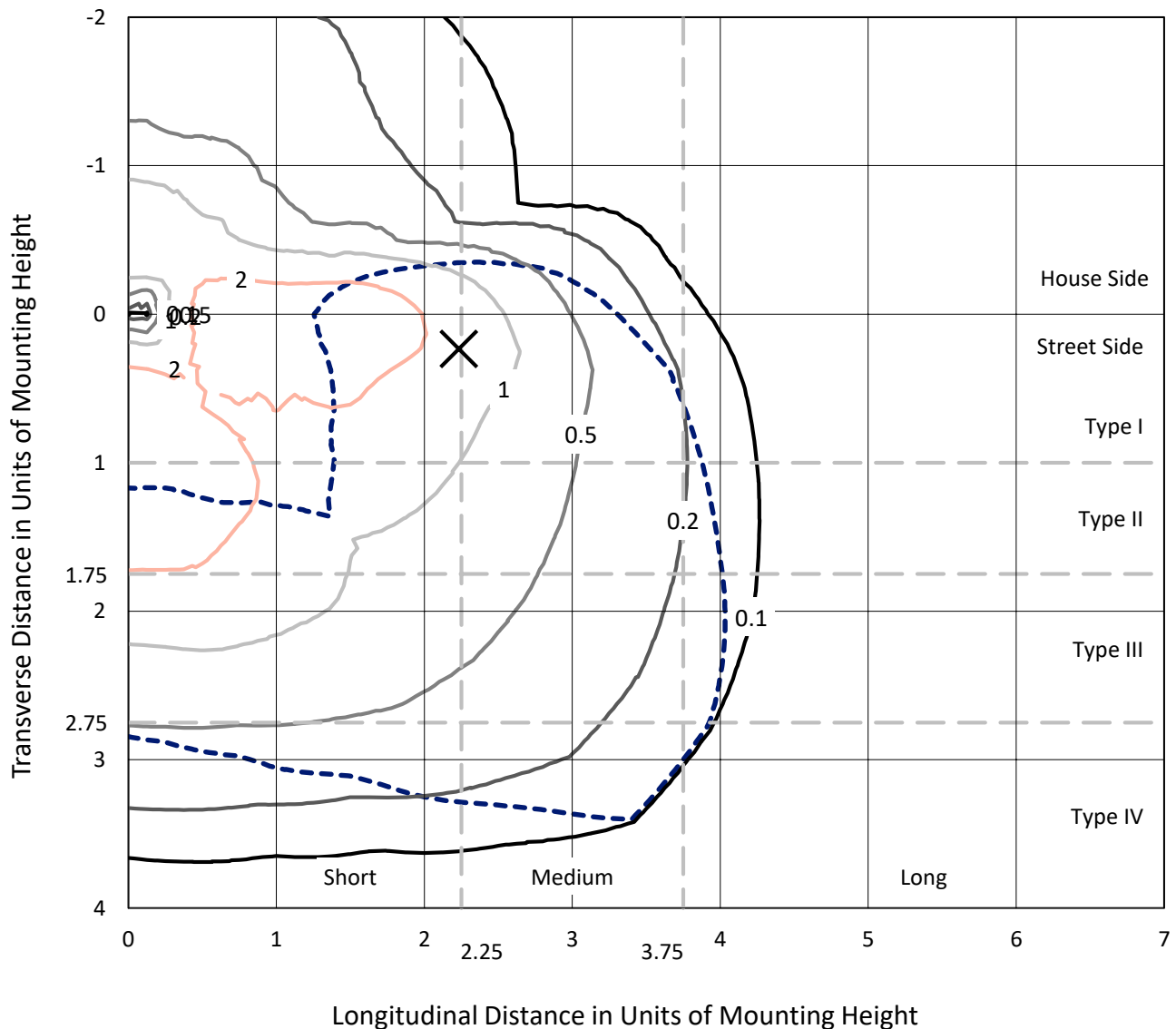


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

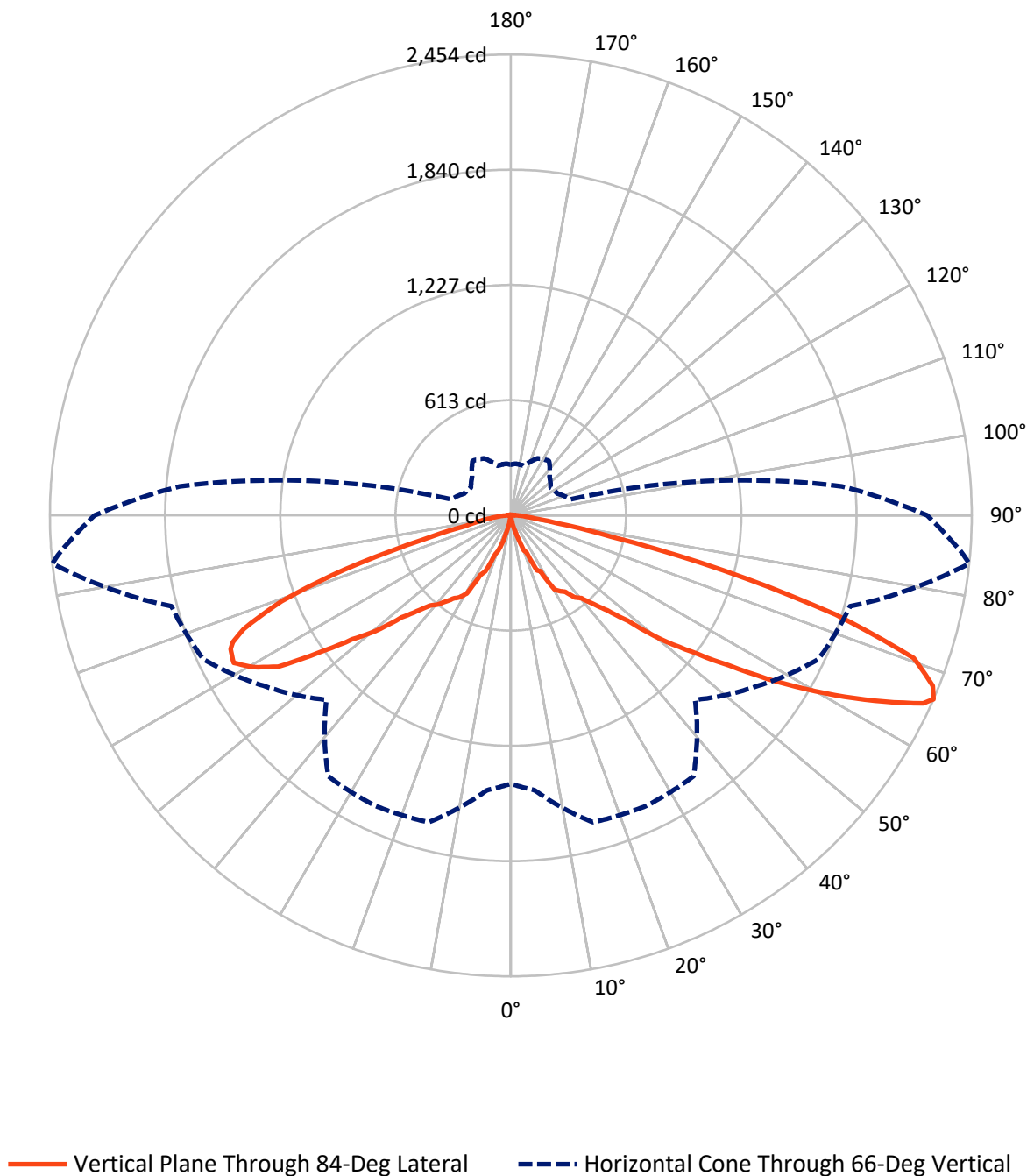


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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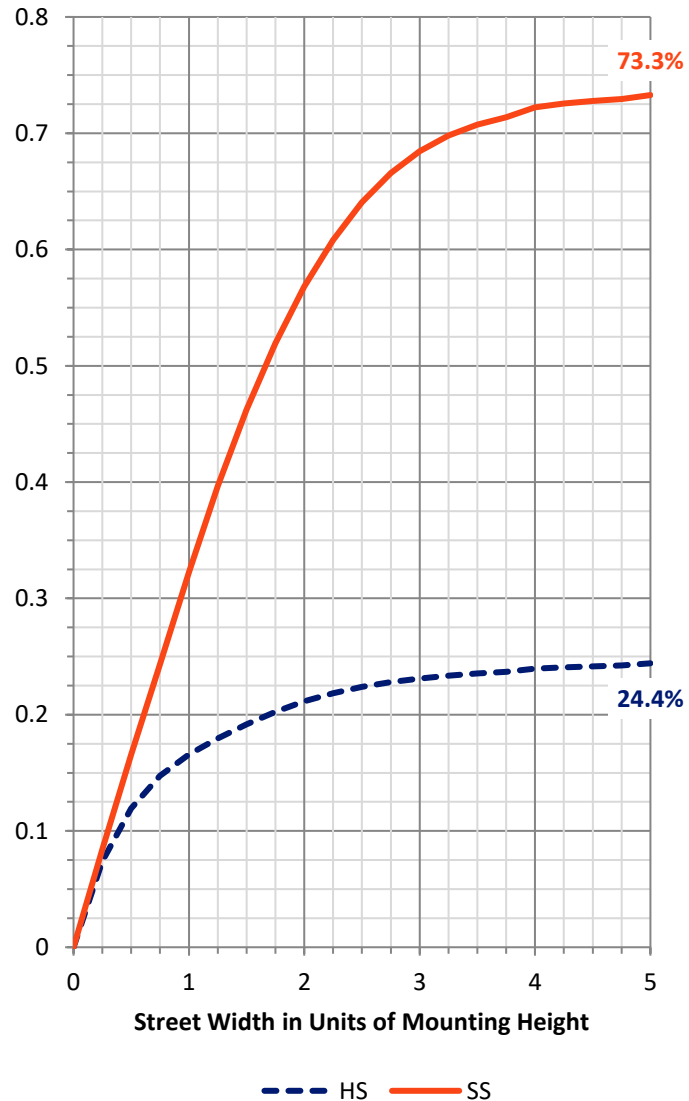
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	893.7	21.8	915.5
	% Fixture	25.0	0.6	25.6
Street Side	Lumens	2635.7	20.5	2656.2
	% Fixture	73.8	0.6	74.4
Total	Lumens	3529.4	42.2	3571.7
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.1
10°-20°	33.2	0.9
20°-30°	122.5	3.4
30°-40°	251.9	7.1
40°-50°	417.9	11.7
50°-60°	728.7	20.4
60°-70°	1073.5	30.1
70°-80°	783.4	21.9
80°-90°	115.6	3.2
90°-100°	21.6	0.6
100°-110°	9.9	0.3
110°-120°	4.7	0.1
120°-130°	3.2	0.1
130°-140°	1.9	0.1
140°-150°	0.9	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3529.4	98.8
0°-180°	3571.7	100.0

Coefficient of Utilization



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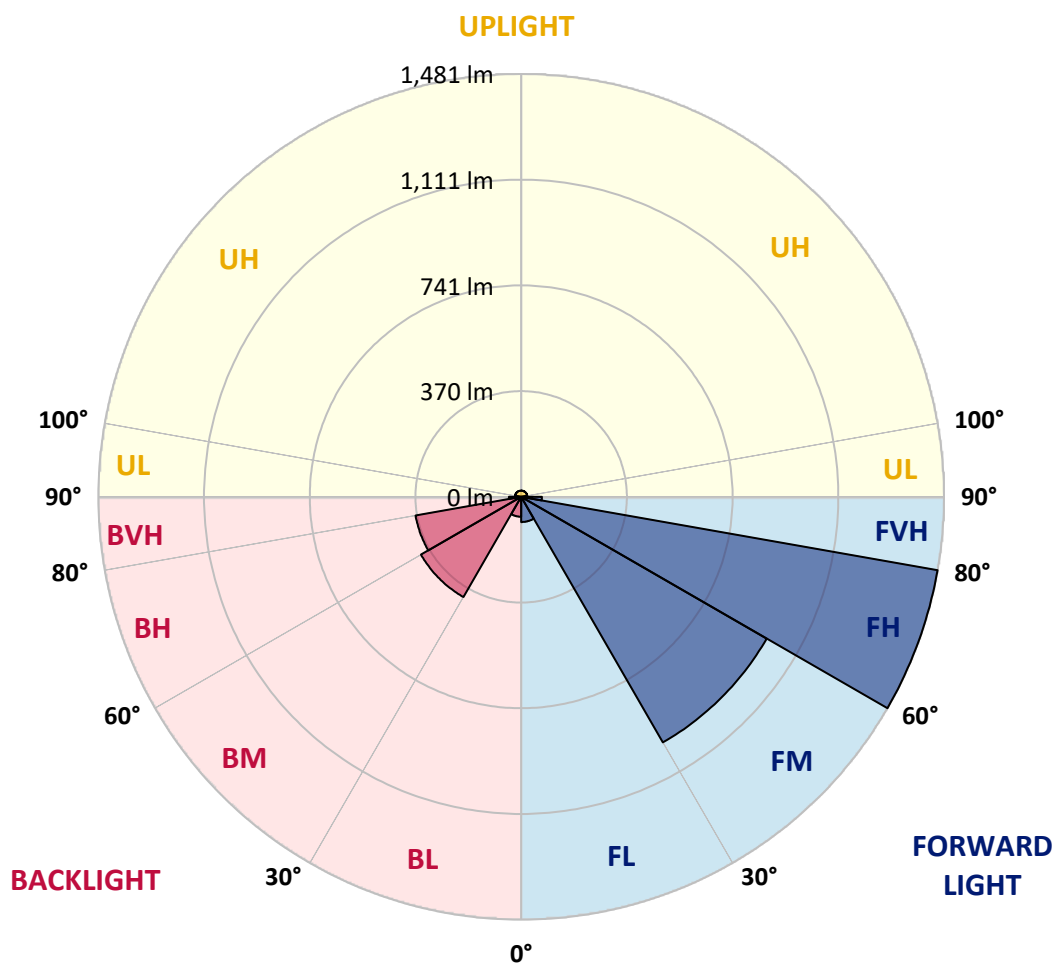
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	88.4	2.5			
FM	(30°-60°)	993.3	27.8			
FH	(60°-80°)	1481.3	41.5			G1/1800
FVH	(80°-90°)	72.7	2.0			G1/100
BL	(0°-30°)	69.9	2.0	B0/110		
BM	(30°-60°)	405.2	11.3	B1/1000		
BH	(60°-80°)	375.7	10.5	B1/500		G1/500
BVH	(80°-90°)	42.9	1.2			G1/100
UL	(90°-100°)	21.6	0.6		U2/50	
UH	(100°-180°)	21.8	0.6		U2/50	

BUG Rating: B1-U2-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
2.5°	21.1	18.9	18.9	18.1	16.3	14.6	11.4	9.6	8.4	8.4	7.9
5°	40.5	42.6	49.1	45.3	37.4	48.8	22.0	14.6	9.3	7.9	7.9
7.5°	64.1	67.6	51.8	46.2	46.2	49.1	40.0	24.2	12.2	9.3	8.9
10°	134.4	127.0	88.4	89.7	75.9	53.2	36.6	32.1	18.9	14.9	13.7
12.5°	130.6	128.7	131.3	114.7	115.5	83.9	46.6	74.6	67.6	64.6	71.1
15°	168.3	166.5	133.6	136.3	123.4	128.3	108.1	107.6	104.2	87.5	83.9
17.5°	233.6	232.0	261.4	174.0	123.8	160.3	139.2	120.0	124.3	131.3	136.6
20°	233.3	230.7	243.0	208.6	211.3	165.6	148.5	218.4	199.5	200.3	189.0
22.5°	344.5	328.6	288.6	217.8	238.1	193.8	220.2	215.8	201.2	213.1	209.6
25°	334.3	340.5	327.0	322.5	242.5	277.7	242.2	249.1	307.6	323.4	323.7
27.5°	388.0	376.1	365.5	331.3	326.1	270.2	249.1	331.7	322.0	336.5	336.1
30°	462.6	458.7	456.1	368.1	352.9	297.9	335.6	338.8	391.0	457.0	470.5
32.5°	534.8	515.7	473.1	426.2	354.1	352.0	333.5	420.9	448.7	479.8	484.6
35°	648.9	648.4	576.4	455.6	396.3	374.0	431.8	453.5	452.9	499.9	528.6
37.5°	746.5	751.3	675.7	550.1	409.9	377.8	450.8	488.9	490.7	554.4	543.5
40°	895.0	882.2	814.6	656.8	468.3	402.9	494.2	499.9	536.0	578.7	594.5
42.5°	1000.4	995.6	973.7	781.6	536.0	449.1	545.7	521.0	567.6	645.1	661.7
45°	1066.3	1042.7	1064.1	873.1	644.5	547.8	557.0	590.0	639.8	721.3	768.4
47.5°	1132.7	1150.6	1100.2	942.1	742.1	593.6	613.0	717.0	764.9	838.3	868.2
50°	1247.7	1228.4	1210.8	1045.6	892.3	666.5	766.7	752.6	887.0	1037.0	1042.2
52.5°	1318.1	1318.1	1289.5	1136.1	996.0	774.2	818.0	868.2	1068.5	1204.3	1253.5
55°	1417.9	1438.5	1433.2	1243.0	1118.2	920.5	952.6	1057.9	1234.6	1409.0	1530.7
57.5°	1488.5	1517.1	1579.1	1357.2	1236.7	980.2	1148.9	1266.3	1457.8	1669.9	1817.2
60°	1593.6	1594.0	1657.7	1458.3	1386.7	1094.0	1224.8	1459.6	1580.4	1920.8	1998.6
62.5°	1604.2	1622.1	1755.6	1615.5	1536.0	1212.6	1473.6	1559.3	1718.4	2173.1	2241.2
65°	1476.8	1525.1	1748.6	1689.4	1672.6	1322.0	1546.5	1756.5	1830.3	2412.0	2392.7
66°	1427.9	1468.8	1690.7	1705.6	1695.0	1387.5	1589.1	1808.0	1869.6	2453.5	2419.6
67.5°	1410.8	1440.6	1621.3	1723.2	1771.1	1506.1	1693.2	1833.0	1941.1	2423.4	2410.0
70°	1291.8	1329.0	1498.6	1839.2	1933.2	1723.6	1827.3	1893.6	1991.6	2275.4	2216.6
72.5°	985.0	1023.3	1148.6	1517.5	1946.7	2045.3	2035.1	1970.2	1827.3	1808.0	1713.4
75°	488.6	529.5	617.8	884.4	1514.9	2009.1	2023.3	1776.3	1476.8	1166.1	1093.5
77.5°	252.7	284.8	238.6	338.8	779.0	1425.3	1431.9	1171.3	855.8	544.8	508.8
80°	172.2	179.2	162.6	166.9	320.8	728.4	679.3	623.5	344.5	250.0	261.0
82.5°	126.5	116.9	112.1	121.7	173.2	227.6	244.2	269.9	184.2	127.0	133.9
85°	59.7	65.8	64.6	74.3	105.5	77.8	119.6	162.1	122.6	81.7	80.4
87.5°	37.4	36.9	39.5	45.8	63.7	51.5	65.4	80.4	73.8	50.9	50.0
90°	24.7	22.0	20.7	24.7	35.7	25.5	35.2	45.8	41.7	27.7	26.0
92.5°	16.7	16.7	18.1	20.7	30.7	27.3	25.1	26.0	26.0	21.5	20.7
95°	12.2	13.1	14.9	15.5	18.4	15.8	20.2	22.4	22.8	17.5	17.2
97.5°	10.5	11.4	12.2	12.8	15.5	12.8	16.7	19.8	19.4	14.1	14.6
100°	9.6	10.5	10.5	11.0	12.2	9.6	13.7	18.4	17.5	12.2	11.9
102.5°	9.3	9.3	8.9	8.9	9.6	7.5	11.4	16.3	13.1	10.2	9.3
105°	8.9	8.9	7.5	7.0	7.5	6.2	9.3	12.2	9.3	8.4	8.4
107.5°	8.4	7.9	6.6	5.7	6.2	4.9	7.5	7.9	6.6	7.5	7.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
110°	7.5	7.5	5.7	4.9	4.9	4.0	5.3	5.7	5.7	7.5	7.9
112.5°	7.0	6.6	4.9	4.0	4.0	3.6	4.0	4.4	4.9	7.0	7.5
115°	6.6	6.2	4.4	3.6	3.1	2.6	3.1	3.6	4.4	7.0	7.0
117.5°	6.2	5.7	4.0	3.1	2.6	2.2	2.6	3.1	4.4	7.0	7.0
120°	6.2	5.7	4.0	2.6	2.2	2.2	2.2	2.6	4.9	7.0	7.5
122.5°	5.7	5.7	4.0	2.6	2.2	1.7	1.7	2.6	4.4	6.6	6.6
125°	5.7	5.7	3.6	2.2	1.7	1.7	1.7	2.2	4.4	6.2	6.6
127.5°	5.3	5.3	3.6	2.2	1.7	1.3	1.3	2.2	4.0	6.2	6.2
130°	5.3	5.3	3.6	1.7	1.3	1.3	1.3	1.7	4.0	5.7	5.7
132.5°	4.4	4.4	3.1	1.7	1.3	0.9	1.3	1.7	3.6	4.9	5.3
135°	4.4	4.4	3.1	1.7	1.3	0.9	0.9	1.7	3.1	4.4	4.4
137.5°	4.0	4.0	2.6	1.7	1.3	0.9	0.9	1.3	2.6	4.0	4.0
140°	3.6	3.6	3.1	1.7	1.3	0.9	0.9	0.9	2.2	3.1	3.1
142.5°	3.6	3.6	2.6	1.7	0.9	0.4	0.4	0.9	1.7	2.2	2.2
145°	3.1	3.1	2.6	1.7	0.9	0.4	0.4	0.9	1.3	1.7	1.7
147.5°	3.1	3.1	2.6	1.3	0.4	0.4	0.4	0.9	1.3	1.7	1.7
150°	2.6	2.6	1.7	0.9	0.0	0.0	0.4	0.4	0.9	1.3	1.3
152.5°	1.7	1.7	1.3	0.4	0.0	0.0	0.0	0.4	0.9	0.9	0.9
155°	0.9	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
157.5°	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
2.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.5	7.5	7.5	7.5	7.5
5°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.9	8.4	8.4	8.4
7.5°	8.4	8.4	7.9	7.5	7.9	8.9	13.1	30.4	44.3	54.4	54.1
10°	13.7	13.7	12.8	11.0	13.7	29.9	58.8	59.3	49.1	45.3	47.0
12.5°	72.0	64.1	54.4	44.8	43.9	53.2	50.0	69.9	78.2	83.9	83.1
15°	82.6	87.5	79.9	89.7	91.8	54.4	85.2	114.3	123.0	126.5	130.6
17.5°	136.3	150.6	107.6	102.0	102.3	109.0	115.2	120.8	123.4	122.1	122.6
20°	205.3	195.6	210.1	179.2	137.1	145.9	133.6	131.8	174.0	211.3	206.5
22.5°	209.6	226.3	206.9	189.4	209.6	148.5	184.2	195.6	201.2	206.0	212.2
25°	339.2	331.3	290.0	217.5	206.9	198.2	200.0	204.4	215.2	232.0	242.2
27.5°	360.3	358.6	320.8	293.0	220.5	247.8	205.3	246.9	266.6	284.3	287.7
30°	484.6	489.4	369.1	281.6	255.7	212.2	238.1	254.4	269.9	294.4	294.9
32.5°	514.9	525.0	408.2	311.5	268.1	219.6	239.5	251.7	310.2	333.0	333.9
35°	522.9	548.8	420.9	300.6	258.8	218.7	221.1	263.2	292.2	338.8	355.4
37.5°	605.8	587.0	447.3	304.4	242.2	210.5	238.6	252.7	298.3	328.2	333.9
40°	641.0	630.5	464.5	312.4	238.9	234.2	221.1	235.4	257.1	278.6	278.6
42.5°	706.4	665.1	474.0	306.7	232.4	251.3	201.7	217.8	238.1	225.4	230.7
45°	793.6	738.1	507.1	276.4	220.2	213.5	193.8	218.7	206.0	206.0	203.5
47.5°	906.0	830.5	496.0	265.8	247.8	202.1	255.7	205.6	189.8	196.8	197.3
50°	1084.0	994.2	529.9	258.8	235.0	198.2	218.7	198.5	198.5	203.5	201.7
52.5°	1307.2	1130.4	544.4	258.4	222.3	230.7	217.0	237.7	205.6	222.8	220.5
55°	1548.8	1335.7	559.4	254.8	220.2	208.2	265.4	227.6	213.5	244.7	245.5
57.5°	1855.0	1573.3	620.8	247.8	221.1	208.6	250.4	254.8	260.1	280.7	283.9
60°	2045.7	1705.2	566.3	261.0	218.7	238.1	291.3	284.8	268.5	344.9	356.3
62.5°	2191.1	1804.9	466.6	271.9	258.8	239.8	300.9	332.2	317.2	348.0	356.7
65°	2217.5	1796.2	356.7	271.9	255.3	279.5	361.2	331.3	282.4	285.7	282.1
66°	2215.7	1769.3	328.6	274.2	258.8	291.3	354.7	335.2	273.3	276.4	269.9
67.5°	2143.1	1684.5	285.7	271.1	283.3	299.1	348.5	312.8	262.8	263.7	257.1
70°	1864.3	1420.8	243.0	278.6	293.9	300.0	380.9	291.3	241.3	235.0	233.6
72.5°	1371.3	1007.9	227.6	277.2	298.3	290.8	321.1	239.5	208.2	196.0	194.7
75°	771.0	514.9	226.7	265.8	264.0	249.5	243.0	184.5	172.2	157.7	155.0
77.5°	355.4	248.2	192.0	213.9	199.5	197.3	181.0	153.8	146.8	137.1	133.0
80°	205.6	175.3	136.6	141.9	143.2	139.2	146.3	138.3	131.0	123.8	117.3
82.5°	120.0	111.2	99.7	93.6	93.6	100.3	120.5	115.2	109.5	103.2	88.8
85°	75.1	72.0	68.1	65.4	65.4	60.1	86.5	96.2	91.0	77.8	69.3
87.5°	49.1	51.5	45.8	46.2	44.8	40.0	58.4	64.6	55.3	44.3	36.9
90°	22.4	24.7	26.8	26.4	28.6	22.0	32.1	33.0	29.5	20.2	14.6
92.5°	17.2	20.2	22.4	22.4	24.7	14.9	23.3	26.0	24.2	18.9	13.7
95°	14.6	18.1	21.5	21.1	21.1	11.9	21.5	24.2	22.8	16.3	11.9
97.5°	11.9	14.6	17.5	17.5	19.4	10.2	19.8	23.3	22.0	16.3	11.4
100°	11.0	13.1	15.5	15.8	17.5	7.9	18.1	22.0	19.8	13.7	11.0
102.5°	10.2	11.0	12.8	12.8	13.1	7.0	14.6	18.1	15.8	10.5	10.5
105°	9.3	9.3	9.3	8.4	8.4	5.7	8.9	12.2	9.6	8.4	9.3
107.5°	8.9	8.4	7.0	6.6	6.2	4.9	6.2	7.5	5.7	7.5	8.4



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CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	8.4	8.4	6.6	5.7	5.3	4.4	5.3	4.9	4.9	7.5	7.9
112.5°	8.4	7.9	5.7	4.9	4.4	4.0	4.4	3.6	4.4	7.5	7.9
115°	7.9	7.9	5.3	4.4	4.4	3.6	3.6	3.1	4.0	7.0	7.9
117.5°	7.9	7.9	5.3	4.0	3.6	3.1	3.1	3.1	4.0	7.0	7.9
120°	7.9	7.5	5.3	4.0	3.1	2.6	2.6	2.6	4.0	7.0	7.5
122.5°	7.5	7.0	4.9	3.6	3.1	2.6	2.2	2.6	4.0	6.6	7.0
125°	7.0	7.0	4.9	3.1	2.6	2.2	1.7	2.2	4.0	6.6	7.0
127.5°	7.0	6.6	4.4	2.6	2.2	2.2	1.7	2.2	4.0	6.2	6.6
130°	6.2	6.2	4.0	2.6	1.7	1.7	1.3	1.7	4.0	6.2	6.2
132.5°	5.7	5.3	3.6	2.2	1.7	1.3	1.3	1.3	3.6	5.3	5.7
135°	4.9	4.4	3.1	1.7	1.3	1.3	0.9	1.3	3.1	4.9	4.9
137.5°	4.0	4.0	3.1	1.7	1.3	0.9	0.9	1.3	3.1	4.4	4.9
140°	3.6	3.1	2.2	1.3	0.9	0.9	0.9	1.3	2.6	3.6	4.0
142.5°	2.6	2.6	1.7	1.3	0.9	0.9	0.4	0.9	2.2	3.1	3.1
145°	2.2	2.2	1.7	0.9	0.9	0.4	0.4	0.4	1.7	2.2	2.6
147.5°	1.7	1.7	1.3	0.9	0.4	0.4	0.0	0.4	1.3	1.7	1.7
150°	1.3	1.3	1.3	0.9	0.4	0.0	0.0	0.0	0.4	0.9	0.9
152.5°	0.9	0.9	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.4	0.4	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

(END OF REPORT)