

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: P240957

Luminaire Tested: **UTLD-AF24-40-D-U-T3-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-46)
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-T3-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3992.3 lumens
Efficiency: N/A
Efficacy: 99.8 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: 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



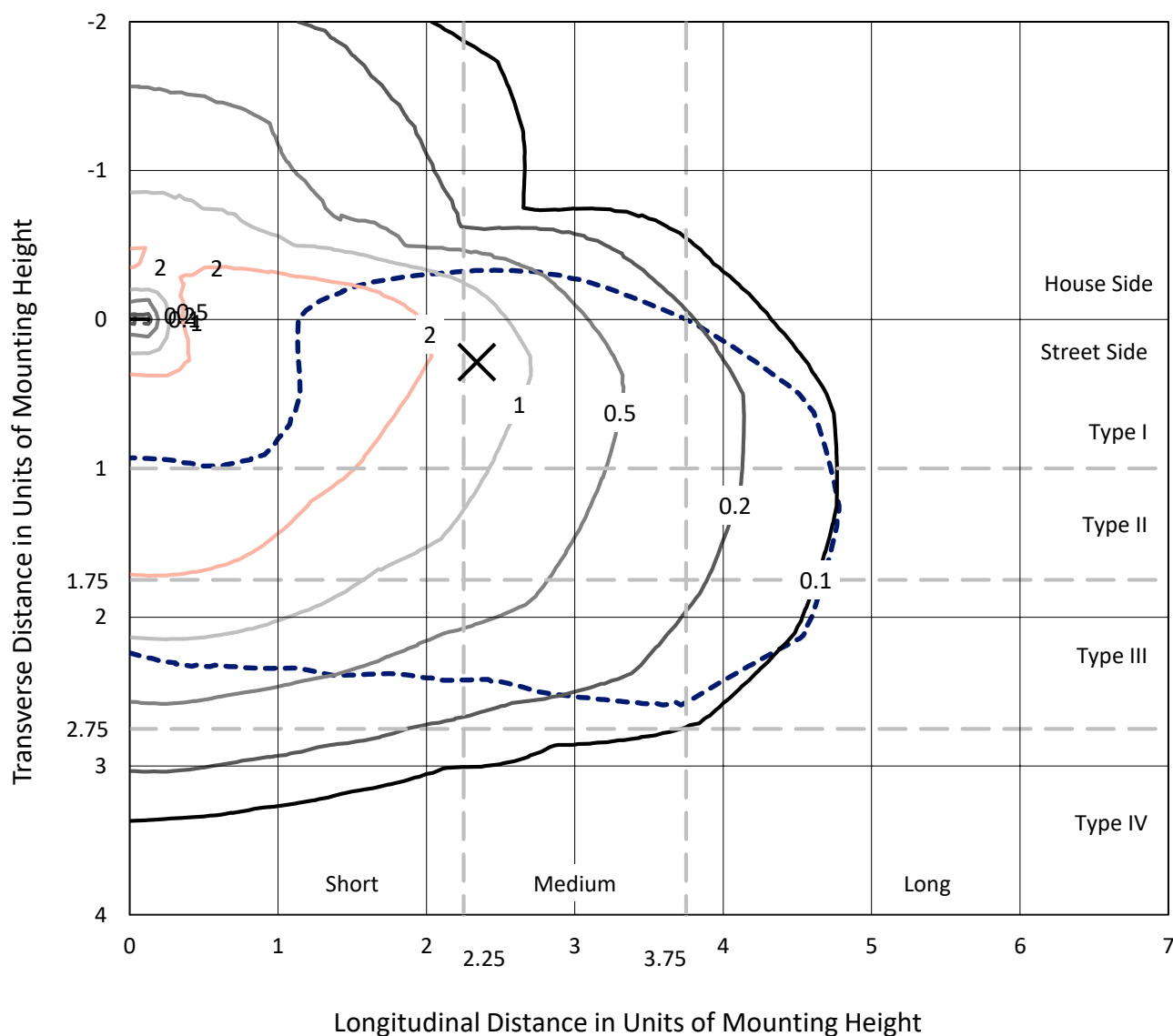
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

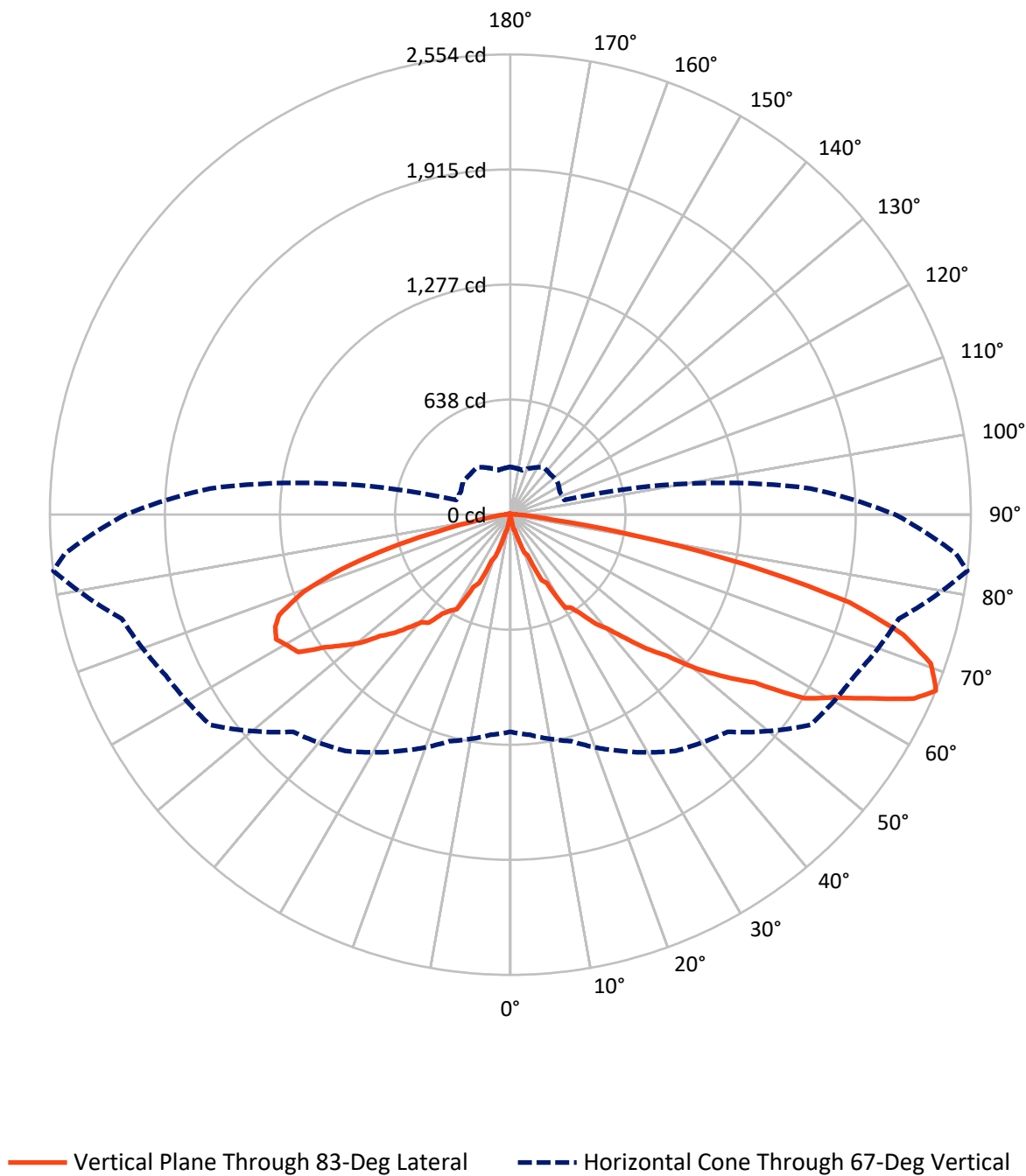


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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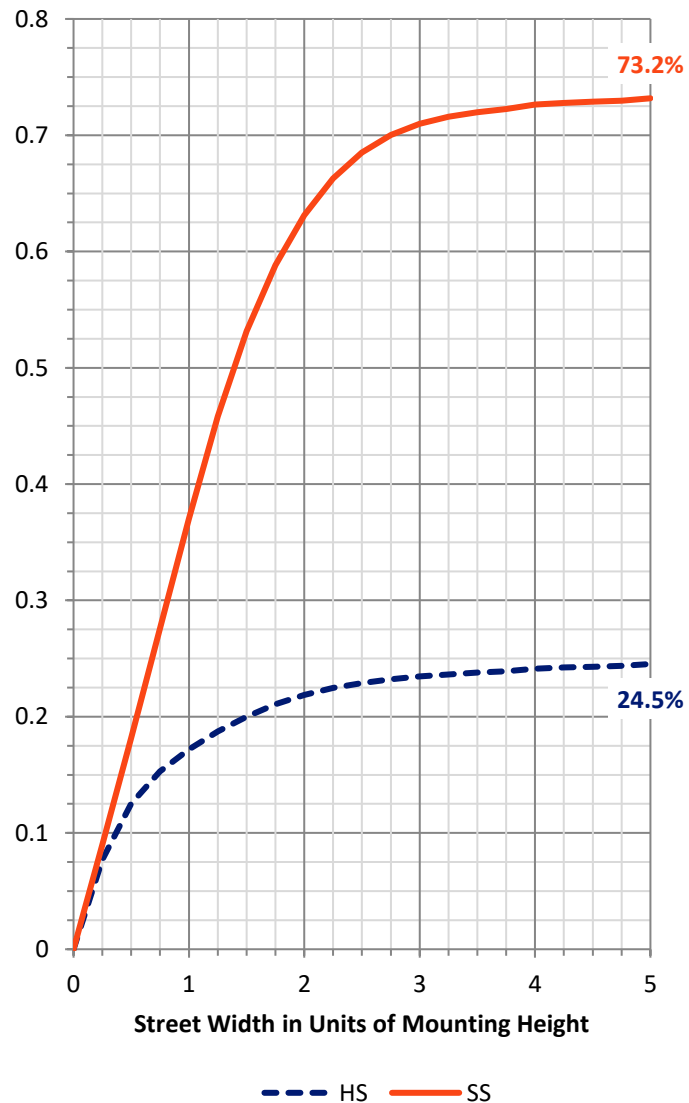
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1001.8	26.5	1028.2
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	2941.8	22.3	2964.0
	% Fixture	73.7	0.6	74.2
Total	Lumens	3943.5	48.8	3992.3
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.1
10°-20°	36.1	0.9
20°-30°	145.1	3.6
30°-40°	320.4	8.0
40°-50°	571.1	14.3
50°-60°	916.4	23.0
60°-70°	1115.1	27.9
70°-80°	718.5	18.0
80°-90°	118.0	3.0
90°-100°	24.3	0.6
100°-110°	11.1	0.3
110°-120°	5.6	0.1
120°-130°	4.0	0.1
130°-140°	2.5	0.1
140°-150°	1.1	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3943.5	98.8
0°-180°	3992.3	100.0

Coefficient of Utilization



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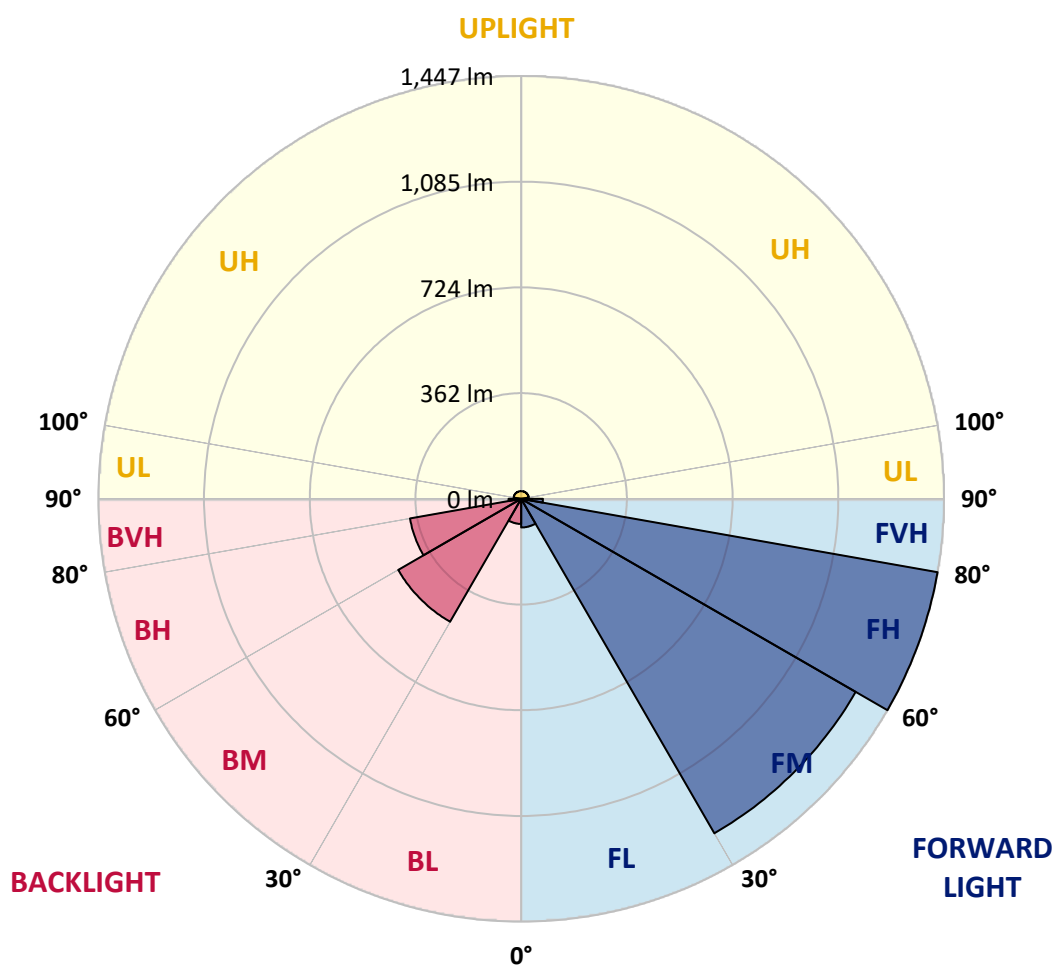
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	98.0	2.5			
FM	(30°-60°)	1321.9	33.1			
FH	(60°-80°)	1447.2	36.2			G1/1800
FVH	(80°-90°)	74.7	1.9			G1/100
BL	(0°-30°)	85.9	2.2	B0/110		
BM	(30°-60°)	486.0	12.2	B1/1000		
BH	(60°-80°)	386.4	9.7	B1/500		G1/500
BVH	(80°-90°)	43.4	1.1			G1/100
UL	(90°-100°)	24.3	0.6		U2/50	
UH	(100°-180°)	26.5	0.7		U2/50	

BUG Rating: B1-U2-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
0°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
2.5°	20.1	20.1	20.1	18.1	15.7	12.7	11.3	9.9	9.3	9.3	9.3
5°	44.5	46.4	44.5	44.0	39.7	48.4	19.5	13.2	9.9	8.8	8.8
7.5°	63.2	64.0	51.9	48.0	38.7	52.8	42.5	23.9	12.2	9.9	9.3
10°	109.6	94.4	80.2	79.2	74.3	55.7	38.1	34.2	19.1	14.6	15.2
12.5°	106.1	109.0	107.1	103.7	95.4	79.8	51.0	65.5	71.9	84.5	79.8
15°	130.1	128.2	113.5	114.5	108.6	115.5	103.2	109.0	102.7	89.5	93.4
17.5°	201.5	194.7	204.0	156.6	114.5	140.4	142.8	127.7	136.5	140.8	156.6
20°	230.4	220.6	232.2	199.1	189.8	159.4	152.1	231.4	215.7	226.5	228.5
22.5°	318.4	313.0	279.2	228.0	242.5	203.4	217.2	240.2	245.1	242.5	250.4
25°	401.5	401.1	397.1	350.7	258.7	288.6	251.0	273.9	353.7	402.5	407.0
27.5°	475.4	471.6	443.6	430.5	362.4	325.8	299.4	379.5	405.1	428.6	433.9
30°	601.2	626.6	566.4	489.6	438.7	375.2	402.5	400.7	487.7	598.2	604.1
32.5°	705.9	691.6	629.0	564.5	512.7	463.7	424.0	559.5	583.6	613.8	627.5
35°	860.4	865.8	799.8	629.6	586.9	519.4	554.7	607.5	624.1	674.5	678.4
37.5°	898.9	941.6	902.9	754.8	624.1	567.9	596.8	664.8	719.5	766.0	736.6
40°	1069.2	1047.7	965.1	845.6	700.9	635.9	729.8	769.8	778.3	832.5	839.3
42.5°	1236.0	1245.3	1143.1	991.4	800.8	739.0	821.3	810.4	889.7	936.7	962.1
45°	1398.4	1402.8	1322.1	1130.4	960.6	911.2	871.2	917.1	1049.2	1060.5	1066.8
47.5°	1508.5	1509.0	1474.8	1282.0	1095.7	984.1	971.5	1020.8	1151.9	1172.0	1177.9
50°	1680.2	1675.8	1597.1	1383.2	1274.2	1128.4	1177.9	1159.2	1272.8	1345.1	1360.8
52.5°	1747.7	1725.6	1683.5	1530.5	1434.6	1290.4	1267.9	1301.6	1431.2	1496.8	1548.6
55°	1703.7	1741.8	1734.0	1623.9	1482.1	1432.7	1373.9	1500.6	1544.7	1645.5	1737.4
57.5°	1612.2	1677.6	1708.5	1667.4	1590.2	1478.2	1583.2	1564.3	1733.0	1923.7	1985.4
60°	1549.7	1590.2	1652.8	1702.7	1646.4	1605.3	1707.6	1807.3	1871.9	2057.8	2140.0
62.5°	1437.1	1475.8	1575.9	1648.4	1616.6	1630.2	1845.5	1897.9	2088.1	2243.2	2355.2
65°	1303.6	1339.7	1457.1	1532.9	1608.8	1662.6	1933.1	2034.3	2169.4	2459.9	2475.5
67°	1205.2	1226.2	1301.1	1446.8	1599.4	1704.1	2032.9	2109.1	2230.4	2553.7	2479.8
67.5°	1172.5	1193.0	1254.2	1405.3	1594.1	1710.5	2061.1	2131.1	2239.3	2544.0	2478.9
70°	902.5	975.3	976.8	1121.1	1423.4	1663.6	2111.6	2206.9	2292.6	2473.5	2393.4
72.5°	540.5	540.5	565.4	707.2	1009.1	1487.9	2111.6	2180.6	2254.4	2278.8	2143.8
75°	261.6	249.4	283.2	339.5	508.2	1003.6	1903.2	1998.6	2007.8	1941.3	1738.9
77.5°	215.7	187.4	178.1	174.2	272.5	375.7	1271.8	1560.3	1560.8	1331.9	1165.6
80°	135.1	136.5	140.4	120.8	156.0	194.2	507.2	950.3	863.8	692.1	583.0
82.5°	95.4	98.8	100.3	89.5	109.0	91.0	168.7	401.1	349.2	241.1	204.5
85°	66.9	65.0	72.8	60.6	65.5	53.7	93.0	172.6	196.6	119.3	113.0
87.5°	40.1	40.1	48.9	41.1	45.1	38.7	56.3	84.5	97.8	67.5	63.2
90°	23.9	22.0	23.0	23.5	25.4	22.0	30.4	40.7	42.5	34.2	31.3
92.5°	18.1	18.1	19.5	18.6	23.0	20.1	26.4	31.8	38.7	29.4	27.5
95°	11.7	13.2	14.6	15.2	17.6	15.2	22.0	25.9	28.9	22.5	21.6
97.5°	10.7	11.7	12.7	12.7	14.6	12.2	18.1	23.0	23.0	17.6	16.2
100°	10.3	10.7	11.3	11.3	12.2	9.9	14.2	20.1	20.1	14.6	13.6
102.5°	9.3	9.9	9.3	8.8	10.3	7.8	11.7	17.6	14.2	11.3	11.7
105°	9.3	9.3	8.3	7.3	8.3	6.3	10.3	12.7	9.9	9.3	9.9
107.5°	8.8	8.8	6.9	6.3	6.9	5.4	8.3	8.8	7.8	8.8	9.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	8.3	7.8	6.3	5.4	5.4	4.9	6.3	6.3	6.3	8.3	9.3
112.5°	7.3	6.9	5.4	4.4	4.4	4.0	4.4	4.9	5.9	7.8	8.8
115°	6.9	6.3	4.9	4.0	3.4	3.4	4.0	4.0	5.4	7.8	8.8
117.5°	6.9	6.3	4.4	4.0	2.9	2.9	3.4	4.0	5.4	7.8	8.8
120°	6.3	6.3	4.4	3.4	2.9	2.4	2.9	3.4	5.4	8.3	8.8
122.5°	6.3	5.9	4.4	3.4	2.4	2.4	2.4	2.9	4.9	7.8	8.3
125°	5.9	5.9	4.0	2.9	2.4	1.9	2.4	2.9	5.4	7.8	8.3
127.5°	5.9	5.4	4.0	2.9	1.9	1.9	2.4	2.4	4.9	7.3	7.8
130°	5.9	5.4	4.0	2.4	1.9	1.9	1.9	2.4	4.9	6.9	7.3
132.5°	4.9	4.9	3.4	2.4	1.9	1.4	1.9	1.9	4.0	5.9	6.3
135°	4.9	4.4	3.4	2.4	1.9	1.4	1.4	1.9	4.0	5.4	5.4
137.5°	4.4	4.0	3.4	2.4	1.4	1.4	1.0	1.4	3.4	4.4	4.9
140°	4.0	4.0	2.9	2.4	1.4	1.0	1.0	1.4	2.4	3.4	4.0
142.5°	4.0	4.0	3.4	2.4	1.4	1.0	1.0	1.0	1.9	2.9	2.9
145°	3.4	3.4	2.9	1.9	1.0	0.4	0.4	1.0	1.4	1.9	2.4
147.5°	3.4	3.4	2.9	1.9	1.0	0.4	0.4	1.0	1.4	1.9	1.9
150°	2.9	2.9	2.4	1.4	0.4	0.0	0.0	0.4	1.0	1.4	1.4
152.5°	1.9	1.9	1.4	1.0	0.0	0.0	0.0	0.4	1.0	1.0	1.0
155°	1.0	1.0	1.0	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	0.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
2.5°	9.3	9.3	9.3	9.3	9.3	9.3	8.8	8.8	8.8	8.8	8.8
5°	8.3	8.3	8.8	8.8	8.8	8.8	8.8	9.3	9.9	9.9	10.3
7.5°	9.3	9.3	8.8	8.8	9.3	10.3	16.6	35.2	66.5	61.6	61.1
10°	14.6	14.6	13.2	12.2	13.2	48.0	75.3	71.4	60.2	58.7	56.7
12.5°	93.0	86.6	69.9	44.0	64.0	60.6	70.5	82.7	107.6	113.0	109.0
15°	93.4	97.4	105.2	113.9	144.3	64.0	124.2	152.1	162.4	162.4	165.8
17.5°	162.4	175.2	134.5	121.3	143.7	176.1	138.9	154.6	153.1	153.6	149.1
20°	264.1	238.7	263.2	236.2	161.3	197.1	173.1	165.8	223.6	266.0	266.0
22.5°	261.6	277.3	273.9	271.5	284.2	175.2	221.1	240.2	249.0	237.7	254.8
25°	436.8	420.2	397.1	271.0	272.5	243.5	238.7	224.0	243.5	262.7	258.7
27.5°	456.8	460.7	417.3	403.5	285.6	273.9	225.0	260.7	284.2	285.6	283.2
30°	623.7	631.5	492.5	371.7	320.9	249.9	263.2	251.4	262.7	275.9	283.2
32.5°	659.8	648.1	543.9	418.7	314.5	264.6	242.1	251.4	294.0	294.0	291.5
35°	702.9	694.2	560.5	397.7	342.8	247.5	224.0	250.4	262.7	284.2	285.6
37.5°	789.5	784.6	615.3	396.7	305.3	233.9	246.5	252.9	256.8	261.6	257.3
40°	846.6	809.1	631.9	414.3	295.4	271.0	256.8	238.1	241.7	229.5	224.0
42.5°	954.3	891.2	648.1	402.5	288.1	298.9	238.7	235.2	226.9	214.2	214.2
45°	1063.8	983.2	669.6	378.6	277.8	290.1	246.1	240.7	233.3	231.4	226.9
47.5°	1175.4	1066.8	666.2	393.8	311.6	271.5	308.1	258.7	222.6	241.7	240.2
50°	1358.8	1202.7	669.1	364.0	310.7	266.6	308.6	245.1	238.1	252.9	254.3
52.5°	1508.5	1295.3	709.7	346.8	300.8	308.6	292.0	296.8	280.8	276.3	281.8
55°	1687.5	1413.6	683.3	326.2	293.1	291.0	343.8	298.9	284.2	298.4	299.8
57.5°	1912.0	1578.5	689.2	293.1	295.4	280.2	336.5	334.6	325.8	318.9	316.5
60°	2042.2	1631.2	634.4	312.6	286.2	309.1	357.1	346.8	300.4	348.7	356.6
62.5°	2144.3	1713.4	499.9	309.1	318.0	295.0	327.7	338.4	316.5	353.1	357.6
65°	2169.4	1709.1	383.0	317.4	314.5	327.7	387.9	332.5	276.3	281.8	284.2
67°	2135.0	1670.3	310.7	302.3	318.9	315.5	320.9	285.6	255.3	260.7	264.6
67.5°	2115.5	1639.1	294.5	301.3	329.6	315.0	314.5	274.9	249.4	256.3	257.8
70°	1933.6	1468.3	246.5	297.4	326.8	286.2	294.0	242.1	220.1	222.6	223.6
72.5°	1655.8	1178.4	235.2	295.9	320.9	238.7	225.9	198.1	187.4	183.9	179.0
75°	1270.8	812.1	232.2	267.0	263.7	180.5	181.0	164.9	165.8	158.4	155.5
77.5°	765.5	454.8	197.6	225.9	197.6	137.8	149.6	146.3	150.1	142.4	137.4
80°	366.9	222.1	156.0	166.3	139.5	108.0	127.7	133.1	134.1	122.8	117.4
82.5°	157.0	114.9	105.7	104.3	99.3	83.7	103.2	108.6	109.6	102.7	82.2
85°	92.5	78.2	72.8	69.9	69.0	51.9	73.9	87.5	87.5	72.4	62.6
87.5°	57.7	57.3	51.4	51.4	53.7	36.7	51.0	60.2	56.7	43.0	34.2
90°	27.5	29.4	30.8	31.3	36.7	20.5	32.8	34.8	32.8	23.5	16.6
92.5°	22.0	24.9	26.9	27.9	33.3	17.6	29.4	31.3	29.8	23.5	16.6
95°	18.1	22.5	26.9	26.4	27.9	13.6	25.9	28.4	27.5	20.5	14.2
97.5°	14.6	18.1	22.0	22.0	25.4	11.7	23.9	26.9	26.4	18.6	13.6
100°	13.2	16.2	19.5	19.1	22.5	9.3	21.6	23.5	23.0	15.2	12.2
102.5°	11.7	13.2	15.2	15.2	16.6	7.8	16.2	18.1	17.2	12.7	12.2
105°	10.7	11.3	10.7	10.3	10.7	6.9	10.3	11.7	10.3	9.9	9.9
107.5°	10.3	10.3	8.8	8.3	7.8	5.9	7.3	7.8	6.9	8.8	9.9



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CATALOG NUMBER: UTLD-AF24-40-D-U-T3-CL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	10.3	9.9	7.8	7.3	6.3	5.4	5.9	5.9	5.9	8.8	9.3
112.5°	9.9	9.9	7.3	6.3	5.9	4.9	4.9	4.4	5.4	8.8	9.9
115°	9.9	9.3	6.9	5.9	4.9	4.4	4.0	4.0	4.9	8.8	9.9
117.5°	9.9	9.3	6.9	5.4	4.9	4.0	3.4	3.4	4.9	8.8	9.9
120°	9.9	9.9	6.9	4.9	4.4	4.0	3.4	3.4	4.9	8.3	9.3
122.5°	9.3	9.3	6.3	4.9	4.0	3.4	2.9	2.9	4.9	8.3	8.8
125°	8.8	8.8	6.3	4.4	3.4	2.9	2.9	2.9	4.9	7.8	8.8
127.5°	8.3	8.3	5.9	4.0	2.9	2.9	2.4	2.4	4.9	7.8	8.3
130°	7.8	7.8	5.4	3.4	2.9	2.4	1.9	2.4	4.9	7.3	7.8
132.5°	6.9	6.9	4.9	2.9	2.4	1.9	1.9	1.9	4.4	6.9	7.3
135°	5.9	5.9	4.4	2.9	2.4	1.9	1.4	1.9	4.0	5.9	6.3
137.5°	5.4	5.4	4.0	2.4	1.9	1.4	1.4	1.9	4.0	5.4	5.9
140°	4.0	4.0	2.9	1.9	1.4	1.4	1.0	1.4	3.4	4.4	4.9
142.5°	2.9	2.9	2.4	1.9	1.4	1.0	1.0	1.4	2.9	4.0	4.0
145°	2.4	2.4	1.9	1.4	1.4	1.0	0.4	1.0	2.4	3.4	3.4
147.5°	1.9	1.9	1.9	1.4	1.0	0.4	0.4	0.4	1.4	2.4	2.4
150°	1.4	1.4	1.4	1.4	1.0	0.0	0.0	0.0	1.0	1.4	1.4
152.5°	1.0	1.0	1.0	1.0	0.4	0.0	0.0	0.0	0.0	0.4	0.4
155°	0.4	1.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.4	0.4	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)