

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: P240051

Luminaire Tested: **UTLD-AF24-70-D-U-SL3-A**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-17)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-70-D-U-SL3-A
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6057.9 lumens
Efficiency: N/A
Efficacy: 81.9 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 - U4 - G3

Input Watts (W): 74
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



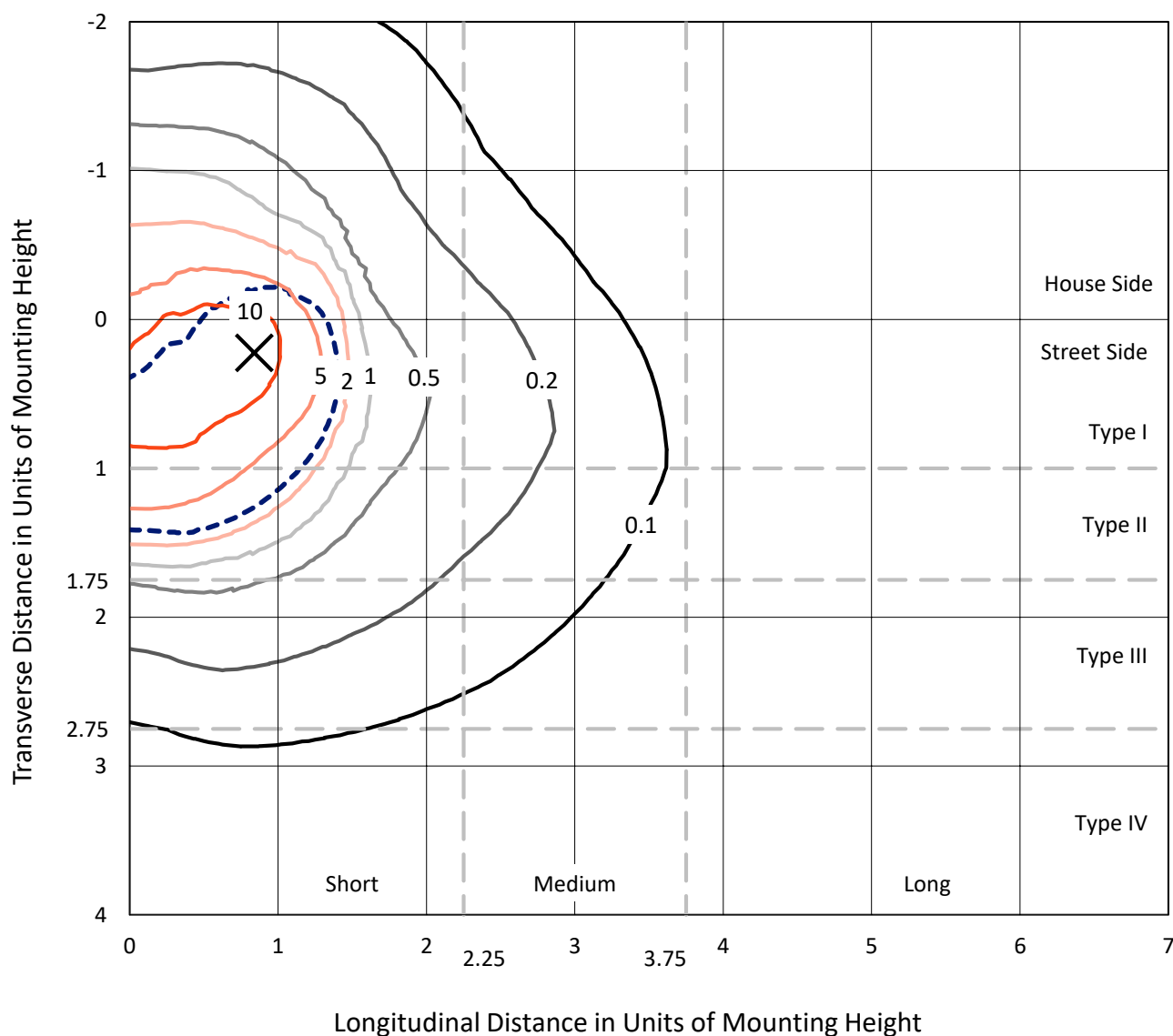
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

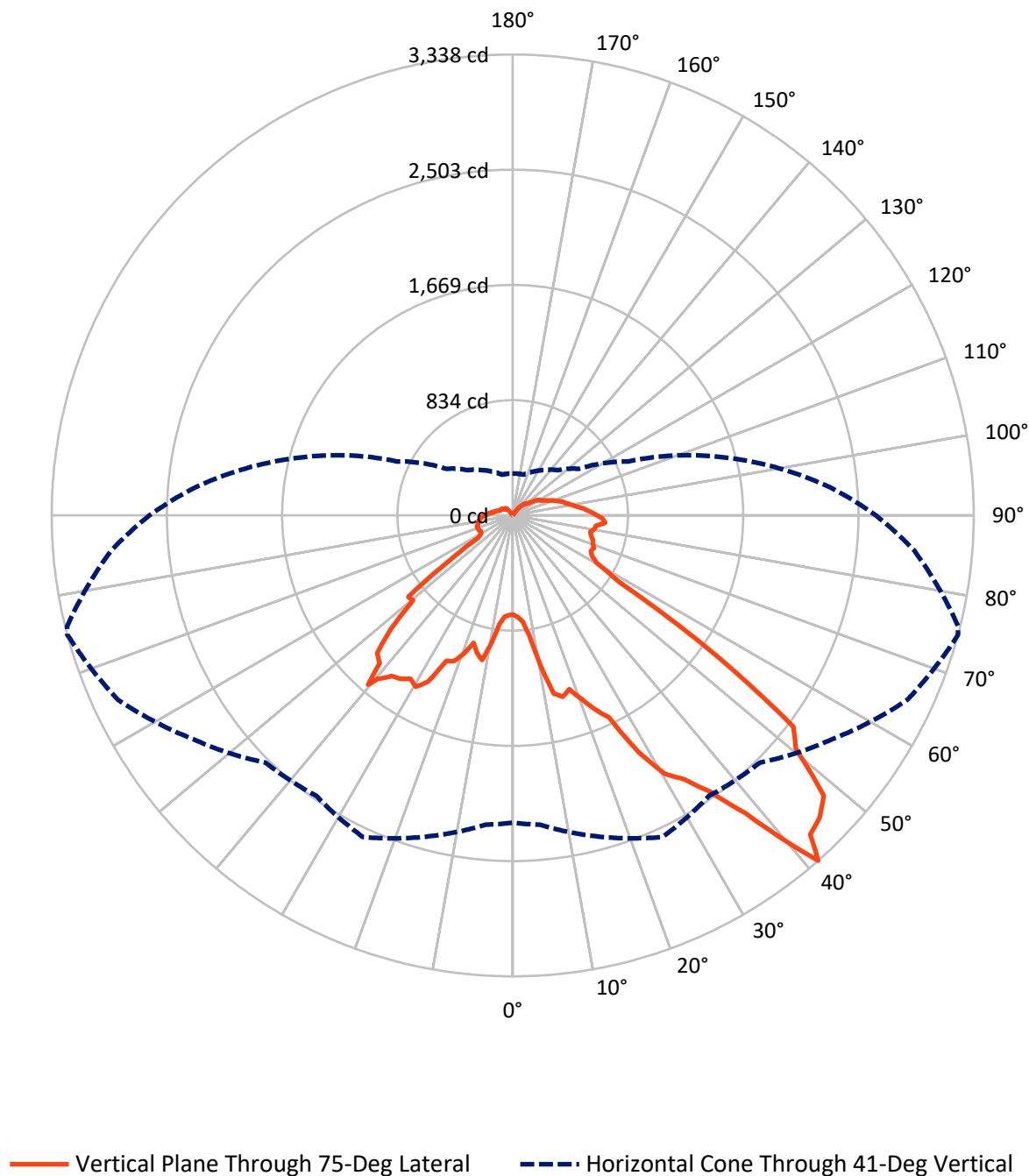


Based on 10 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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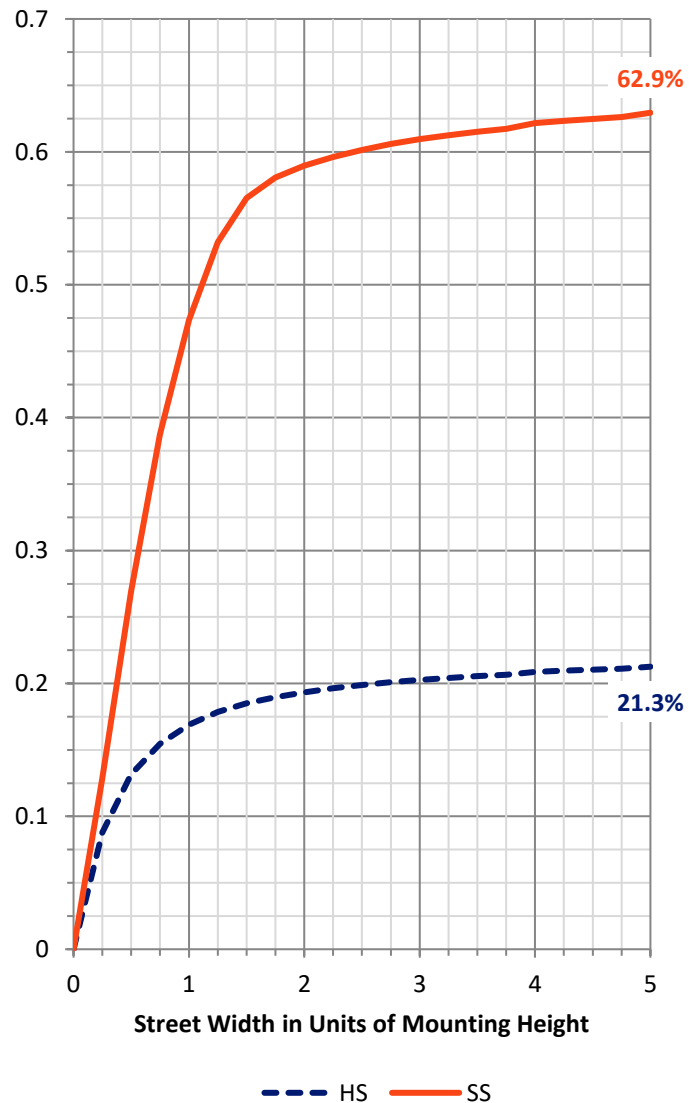
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1336.3	170.4	1506.7
	% Fixture	22.1	2.8	24.9
Street Side	Lumens	3930.1	621.1	4551.2
	% Fixture	64.9	10.3	75.1
Total	Lumens	5266.5	791.5	6057.9
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	1.2
10°-20°	299.8	4.9
20°-30°	615.9	10.2
30°-40°	1002.7	16.6
40°-50°	1302.4	21.5
50°-60°	923.4	15.2
60°-70°	375.3	6.2
70°-80°	339.6	5.6
80°-90°	331.8	5.5
90°-100°	284.6	4.7
100°-110°	206.1	3.4
110°-120°	140.6	2.3
120°-130°	91.3	1.5
130°-140°	54.4	0.9
140°-150°	13.8	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5266.5	86.9
0°-180°	6057.9	100.0

Coefficient of Utilization



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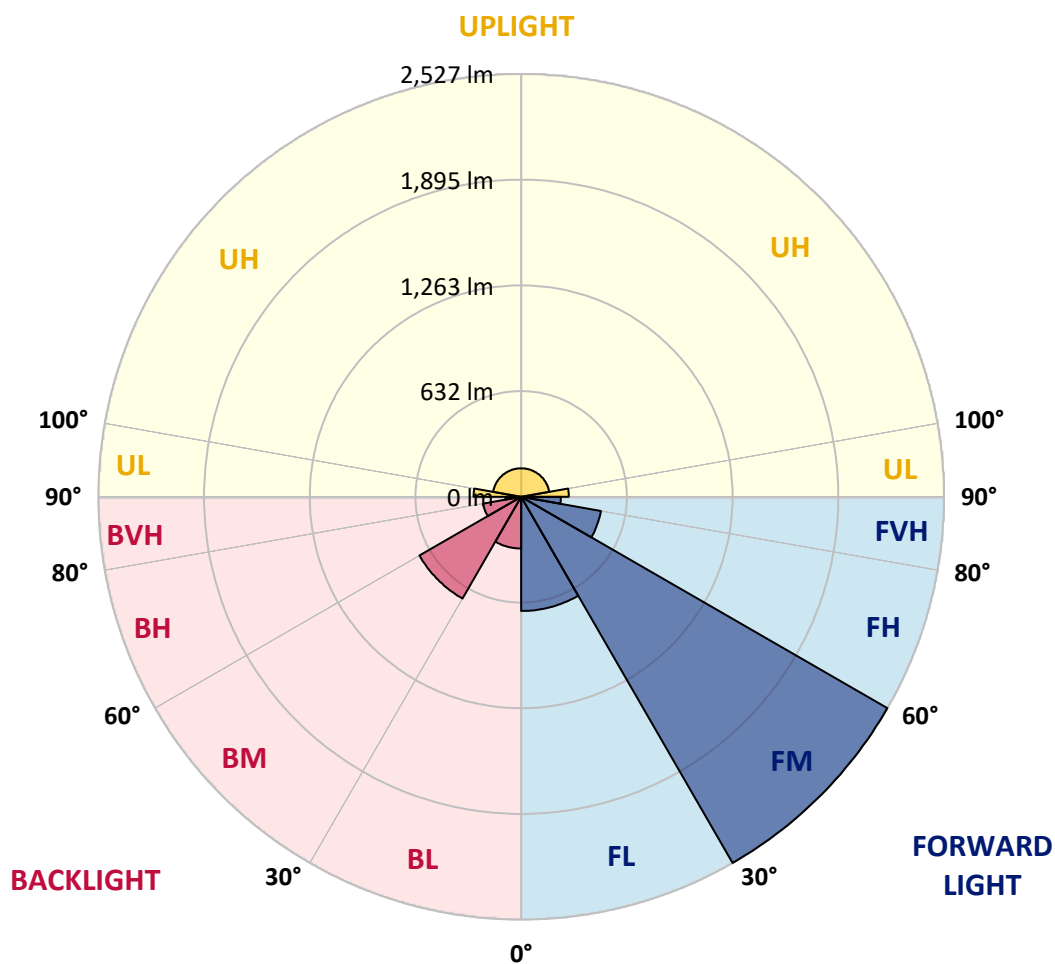
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	682.2	11.3			
FM	(30°-60°)	2526.6	41.7			
FH	(60°-80°)	483.7	8.0			G0/660
FVH	(80°-90°)	237.6	3.9			G3/500
BL	(0°-30°)	309.2	5.1	B1/500		
BM	(30°-60°)	701.9	11.6	B1/1000		
BH	(60°-80°)	231.2	3.8	B1/500		G1/500
BVH	(80°-90°)	94.1	1.6			G1/100
UL	(90°-100°)	284.6	4.7		U3/500	
UH	(100°-180°)	170.4	2.8		U3/500	

BUG Rating: B1-U4-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6
2.5°	768.6	770.4	766.9	764.3	762.6	757.4	753.1	747.1	738.5	737.5	734.2
5°	838.5	838.5	838.5	832.5	825.6	814.4	804.9	791.0	774.7	773.9	760.9
7.5°	951.5	951.5	946.3	937.7	922.2	905.0	903.3	901.5	879.1	876.5	853.2
10°	1073.2	1069.7	1072.4	1079.2	1087.0	1110.3	1124.9	1126.7	1102.5	1096.5	1062.8
12.5°	1120.6	1124.1	1154.3	1209.4	1302.6	1395.8	1444.1	1404.4	1324.2	1313.9	1234.5
15°	1193.1	1197.4	1247.5	1339.8	1495.0	1629.6	1588.2	1489.0	1362.2	1352.6	1230.2
17.5°	1387.2	1407.1	1455.4	1602.0	1759.9	1705.6	1565.7	1438.1	1323.4	1312.1	1209.4
20°	1523.5	1534.7	1627.9	1768.5	1879.8	1797.0	1701.2	1572.7	1418.2	1418.2	1338.0
22.5°	1636.5	1633.0	1708.9	1921.2	1985.9	1932.5	1821.2	1690.0	1526.0	1518.4	1413.9
25°	1814.2	1825.5	1956.6	2191.3	2131.7	1995.4	1848.8	1728.8	1621.0	1611.5	1507.1
27.5°	1917.7	1947.1	2098.1	2301.6	2263.7	2080.0	1951.4	1933.3	1941.0	1933.3	1819.4
30°	1943.6	1956.6	2142.9	2344.8	2318.9	2182.6	2182.6	2212.7	2173.1	2161.9	2009.2
32.5°	2008.4	2039.4	2218.0	2375.0	2312.0	2286.1	2299.9	2293.9	2276.6	2261.1	2083.3
35°	2113.6	2140.3	2307.7	2425.8	2311.2	2320.7	2444.9	2516.5	2454.4	2440.6	2175.7
37.5°	2390.5	2416.4	2567.3	2560.4	2372.4	2390.5	2615.7	2746.8	2735.6	2733.8	2471.6
40°	2335.3	2420.7	2603.6	2632.1	2463.8	2483.6	2752.9	3037.6	3168.6	3165.2	2839.9
41°	2224.8	2248.1	2407.7	2569.0	2478.5	2531.1	2824.5	3154.9	3337.7	3324.8	2917.6
42.5°	2264.5	2305.9	2400.9	2454.4	2461.2	2566.5	2880.5	3169.5	3160.0	3154.0	2821.0
45°	2602.7	2620.0	2659.7	2557.0	2383.6	2514.7	2849.4	3117.7	3116.8	3089.3	2939.1
47.5°	2439.6	2488.8	2657.9	2566.5	2375.8	2374.1	2594.1	2957.2	3029.8	2990.1	2616.5
50°	2307.7	2343.1	2441.4	2343.9	2260.2	2258.5	2465.5	2739.1	2656.2	2644.9	2131.7
52.5°	2047.1	2081.7	2151.6	2127.4	2080.0	2074.7	2232.6	2519.0	2544.9	2536.3	2151.6
55°	1556.3	1580.5	1843.6	1850.4	1815.1	1832.3	1960.0	2076.5	1786.6	1740.0	1209.4
57.5°	914.4	976.5	1231.9	1391.5	1464.9	1478.7	1434.7	1228.5	906.6	873.9	558.1
60°	451.2	483.1	660.8	829.9	1019.7	1026.6	886.8	785.0	696.2	676.4	488.3
62.5°	321.8	340.7	457.3	547.0	653.1	670.3	621.1	663.4	644.5	632.4	475.4
65°	291.5	308.0	405.5	452.9	496.9	523.6	535.7	606.5	621.1	613.4	471.9
67.5°	266.6	282.9	370.1	406.3	439.2	482.2	508.1	578.0	634.0	628.9	500.3
70°	235.5	254.5	333.9	377.9	418.4	467.6	503.0	576.2	616.8	609.9	484.9
72.5°	206.2	223.4	288.2	339.9	399.5	455.5	508.1	561.6	606.5	600.5	490.9
75°	179.4	196.7	252.8	306.3	374.4	459.0	511.6	557.3	585.7	577.1	482.2
77.5°	161.3	178.6	226.9	279.5	355.5	464.1	559.0	576.2	575.4	566.8	471.9
80°	146.7	163.9	209.6	260.5	338.2	475.4	597.8	615.1	599.6	588.4	474.4
82.5°	142.3	158.8	201.0	257.1	341.7	482.2	609.1	652.2	608.1	594.4	471.9
85°	157.8	168.2	212.3	275.2	364.1	494.3	604.8	672.9	672.1	657.3	515.1
87.5°	188.0	196.7	239.8	303.7	388.2	501.2	658.3	685.8	649.6	642.7	520.2
90°	232.9	239.0	283.9	342.5	413.3	497.8	542.7	578.0	602.1	597.0	493.5
92.5°	276.9	284.7	325.2	368.4	400.3	427.9	471.9	553.8	557.3	553.0	474.4
95°	328.7	333.9	357.1	378.7	385.7	395.1	439.2	475.4	515.1	509.8	457.3
97.5°	357.1	359.8	370.1	367.5	351.1	352.8	402.0	440.8	465.0	459.0	400.3
100°	350.3	352.8	354.6	339.0	316.6	323.5	364.1	410.6	429.6	427.0	370.9
102.5°	327.9	332.2	333.0	317.4	296.8	298.5	338.2	373.6	393.4	389.9	346.0
105°	321.8	323.5	315.8	295.0	270.9	274.4	312.3	350.3	373.6	371.8	326.9
107.5°	289.9	291.5	280.4	260.5	252.0	261.4	295.9	320.1	335.6	335.6	291.5



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CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-A

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	243.3	243.3	240.7	236.4	238.1	252.0	280.4	295.9	308.8	308.0	266.6
112.5°	235.5	233.7	231.2	227.7	222.6	233.7	252.8	271.7	274.4	273.4	238.1
115°	232.1	229.4	220.9	211.3	205.3	213.9	228.6	245.8	252.8	252.0	226.9
117.5°	205.3	205.3	198.5	191.5	188.9	200.2	218.3	229.4	230.4	232.1	207.9
120°	183.7	183.7	179.4	175.9	177.7	182.9	202.7	212.3	220.9	219.9	199.3
122.5°	167.4	168.2	164.8	157.8	163.9	169.1	180.3	189.8	199.3	198.5	183.7
125°	151.0	150.1	146.7	138.9	152.7	159.6	160.5	159.6	169.1	169.1	156.1
127.5°	133.7	132.9	129.4	125.1	143.2	152.7	151.0	137.2	143.2	142.3	136.3
130°	132.0	131.1	125.1	119.9	128.6	145.0	137.2	127.7	132.9	133.7	127.7
132.5°	131.1	130.2	124.2	115.6	113.0	130.2	116.4	118.2	124.2	124.2	119.1
135°	122.5	121.6	116.4	104.3	92.3	107.8	92.3	101.8	109.6	109.6	105.3
137.5°	107.8	107.0	101.8	91.5	74.2	76.8	69.9	85.4	94.0	94.9	91.5
140°	85.4	86.2	81.1	70.8	53.5	40.5	45.7	66.4	75.1	75.1	74.2
142.5°	63.8	63.8	58.6	48.3	31.1	14.6	25.9	40.5	50.9	51.8	53.5
145°	44.9	44.9	39.7	31.1	15.5	2.6	12.1	24.1	31.9	31.9	34.5
147.5°	29.4	29.4	25.1	17.3	4.3	0.8	3.5	12.1	19.0	19.0	20.7
150°	18.1	18.1	13.8	5.2	0.8	0.0	0.8	2.6	8.6	8.6	11.3
152.5°	6.0	5.2	2.6	1.7	0.8	0.0	0.0	0.8	0.8	0.8	2.6
155°	1.7	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8
157.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6
2.5°	729.9	728.1	722.1	714.3	704.8	692.7	685.0	681.5	677.2	673.7	675.5
5°	754.0	748.0	734.2	709.1	685.8	668.6	654.8	642.7	636.7	631.5	631.5
7.5°	842.0	831.7	792.8	750.5	698.0	650.5	616.8	599.6	579.7	574.6	573.7
10°	1033.5	1020.6	938.6	836.8	737.5	644.5	559.9	514.1	492.6	481.4	484.0
12.5°	1192.2	1162.9	1069.7	954.1	816.9	666.9	549.5	467.6	431.4	417.6	412.4
15°	1179.3	1130.2	1029.2	919.6	812.6	703.1	585.7	493.5	418.4	393.4	388.2
17.5°	1150.8	1099.1	965.4	824.7	699.6	632.4	566.8	499.5	442.5	404.6	397.7
20°	1295.8	1237.1	1062.8	923.1	747.1	577.1	502.1	464.1	427.9	408.9	404.6
22.5°	1357.9	1298.3	1137.9	961.1	786.8	640.2	517.6	447.7	419.3	415.8	410.6
25°	1451.1	1376.0	1157.7	935.2	766.9	647.0	518.4	449.5	407.2	407.2	404.6
27.5°	1752.1	1642.6	1351.8	1038.7	796.3	622.0	505.5	429.6	378.7	358.9	354.6
30°	1886.7	1782.3	1426.0	1065.4	809.2	628.0	481.4	394.2	360.6	346.0	344.2
32.5°	1984.2	1847.9	1395.0	1000.8	743.6	586.7	460.6	381.4	347.7	334.7	331.2
35°	2032.5	1853.1	1436.3	977.4	704.0	538.3	436.5	366.6	346.0	335.6	335.6
37.5°	2268.0	2045.4	1457.1	971.4	673.7	491.7	414.9	367.5	323.5	308.8	309.7
40°	2593.2	2276.6	1534.7	926.5	615.1	475.4	401.1	351.1	310.6	301.1	297.6
41°	2629.5	2310.2	1612.4	925.7	587.5	463.3	400.3	349.3	305.4	303.7	302.8
42.5°	2532.8	2202.4	1438.1	841.1	551.3	443.4	398.5	347.7	300.2	304.5	303.7
45°	2643.3	2315.4	1399.3	770.4	488.3	410.6	377.9	338.2	296.8	289.0	289.9
47.5°	2296.4	1962.6	1204.3	670.3	432.2	375.2	349.3	316.6	288.2	283.9	283.9
50°	1828.9	1539.0	947.3	589.2	380.4	346.0	321.8	300.2	270.9	259.6	263.1
52.5°	1863.4	1558.9	960.1	548.7	346.0	315.8	300.2	273.4	239.0	218.3	221.7
55°	1024.9	888.5	561.6	420.9	320.9	293.3	275.2	247.6	209.6	186.4	188.9
57.5°	465.0	386.5	298.5	289.9	277.8	270.1	250.2	225.2	188.9	163.1	163.1
60°	415.8	340.7	266.6	242.4	248.5	249.3	228.6	204.5	169.1	138.9	139.7
62.5°	406.3	332.2	258.8	231.2	236.4	236.4	216.6	192.4	160.5	129.4	129.4
65°	404.6	328.7	259.6	227.7	231.2	232.1	212.3	192.4	170.8	148.4	150.1
67.5°	428.7	347.7	268.3	225.2	228.6	228.6	212.3	197.5	184.6	170.8	172.6
70°	415.8	341.7	266.6	225.2	223.4	223.4	211.3	198.5	191.5	179.4	180.3
72.5°	420.9	352.0	271.7	223.4	216.6	214.8	207.0	199.3	193.2	187.2	188.0
75°	413.3	348.5	263.1	214.8	206.2	202.7	197.5	195.8	196.7	194.1	192.4
77.5°	401.1	342.5	257.1	206.2	196.7	188.9	185.5	186.4	189.8	187.2	184.6
80°	399.5	343.3	254.5	201.0	184.6	171.7	167.4	169.1	169.9	164.8	159.6
82.5°	394.2	336.4	242.4	187.2	166.5	150.1	146.7	149.2	150.1	145.0	139.7
85°	424.4	354.6	239.0	174.3	151.0	133.7	127.7	128.6	122.5	114.8	109.6
87.5°	436.5	358.0	225.2	154.5	135.4	120.8	113.0	107.8	98.3	85.4	81.9
90°	414.9	339.9	202.7	132.9	119.1	107.8	98.3	91.5	79.4	66.4	62.1
92.5°	402.0	326.1	186.4	119.1	104.3	94.9	86.2	75.9	63.8	49.2	46.5
95°	394.2	320.9	175.9	106.1	93.2	83.7	75.1	65.6	53.5	42.2	40.5
97.5°	343.3	277.8	155.3	94.9	81.9	73.3	65.6	56.1	44.9	36.2	34.5
100°	319.2	258.8	144.0	85.4	72.4	64.7	57.8	50.0	40.5	34.5	33.7
102.5°	298.5	240.7	131.1	76.8	64.7	57.0	50.9	44.0	37.1	31.9	32.7
105°	282.9	229.4	125.9	70.8	57.8	51.8	44.9	39.7	32.7	29.4	29.4
107.5°	251.0	203.6	111.3	63.8	52.6	46.5	41.4	36.2	31.1	28.4	29.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	232.1	188.9	106.1	61.3	50.0	43.2	38.0	32.7	27.6	27.6	27.6
112.5°	206.2	169.9	98.3	57.8	46.5	40.5	35.4	29.4	24.1	25.1	25.9
115°	197.5	163.9	94.9	55.2	44.9	38.8	32.7	27.6	21.6	23.3	24.1
117.5°	182.0	151.8	92.3	55.2	43.2	36.2	31.1	25.9	20.7	22.4	22.4
120°	176.9	149.2	92.3	54.3	41.4	34.5	29.4	22.4	19.0	20.7	20.7
122.5°	164.8	139.7	88.0	53.5	39.7	32.7	28.4	19.0	16.4	18.1	18.1
125°	141.5	121.6	79.4	50.0	38.0	32.7	27.6	15.5	15.5	17.3	17.3
127.5°	123.4	107.0	72.4	49.2	38.8	34.5	25.9	12.9	13.8	15.5	15.5
130°	117.3	104.3	75.1	53.5	42.2	36.2	19.0	12.1	12.9	14.6	15.5
132.5°	111.3	101.0	76.8	57.8	44.9	35.4	15.5	11.3	12.1	13.8	13.8
135°	99.2	91.5	71.6	55.2	42.2	28.4	11.3	9.5	11.3	12.9	12.9
137.5°	87.2	81.1	65.6	50.9	38.8	22.4	7.8	8.6	9.5	10.3	10.3
140°	71.6	66.4	54.3	41.4	28.4	12.1	5.2	6.9	7.8	8.6	8.6
142.5°	51.8	48.3	38.8	27.6	16.4	4.3	3.5	5.2	6.0	6.9	6.9
145°	34.5	31.9	25.1	17.3	6.0	2.6	1.7	3.5	5.2	5.2	6.0
147.5°	20.7	19.8	14.6	7.8	2.6	1.7	1.7	2.6	3.5	4.3	4.3
150°	10.3	10.3	6.9	2.6	1.7	0.8	0.8	0.8	1.7	2.6	2.6
152.5°	2.6	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.8	0.8	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)