

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: P240050

Luminaire Tested: **UTLD-AF24-60-D-U-SL3-A**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240050
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-AF24-60-D-U-SL3-A
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 800mA 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: 5413.5 lumens
Efficiency: N/A
Efficacy: 84.6 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 - G2

Input Watts (W): 64
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



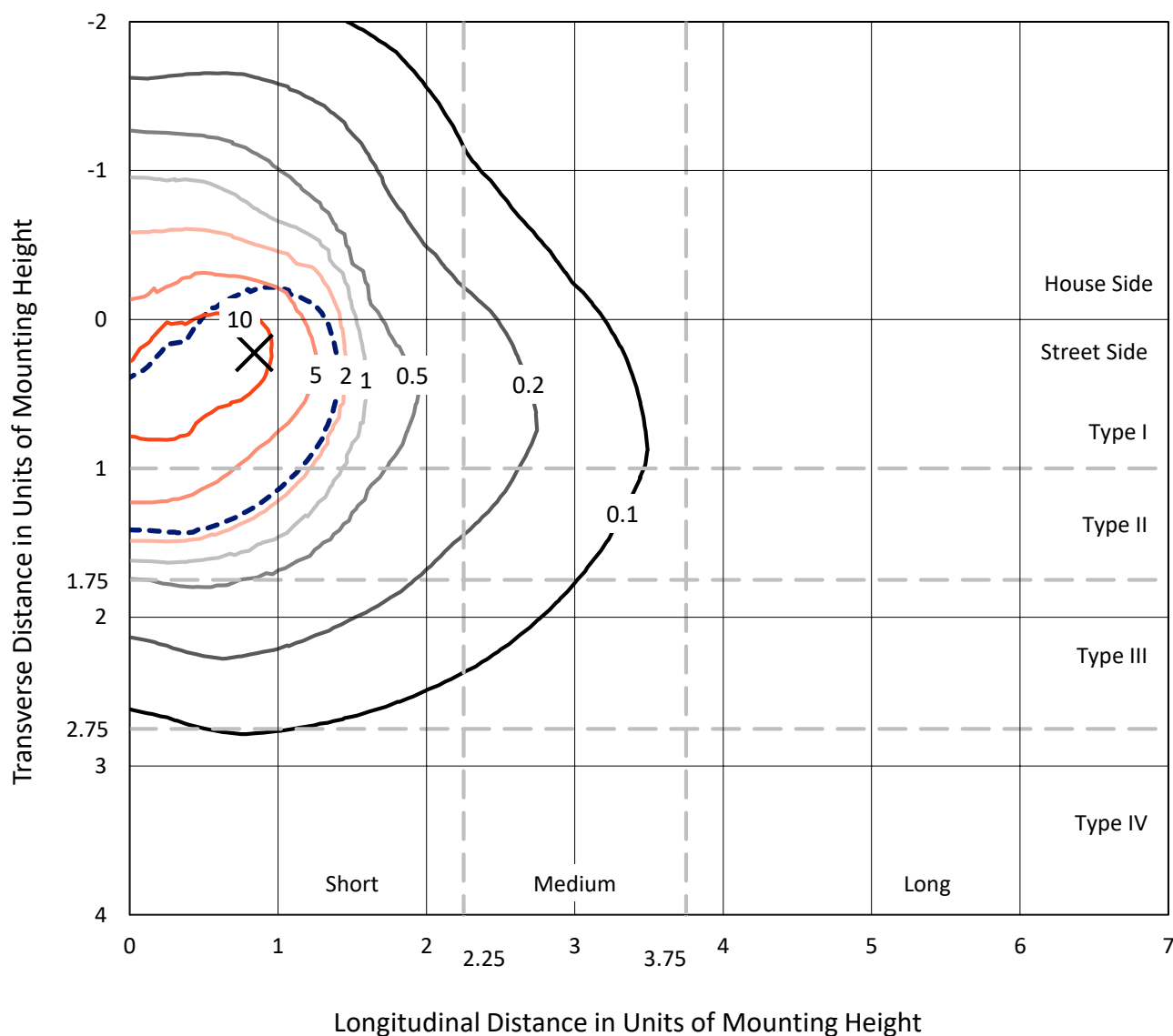
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

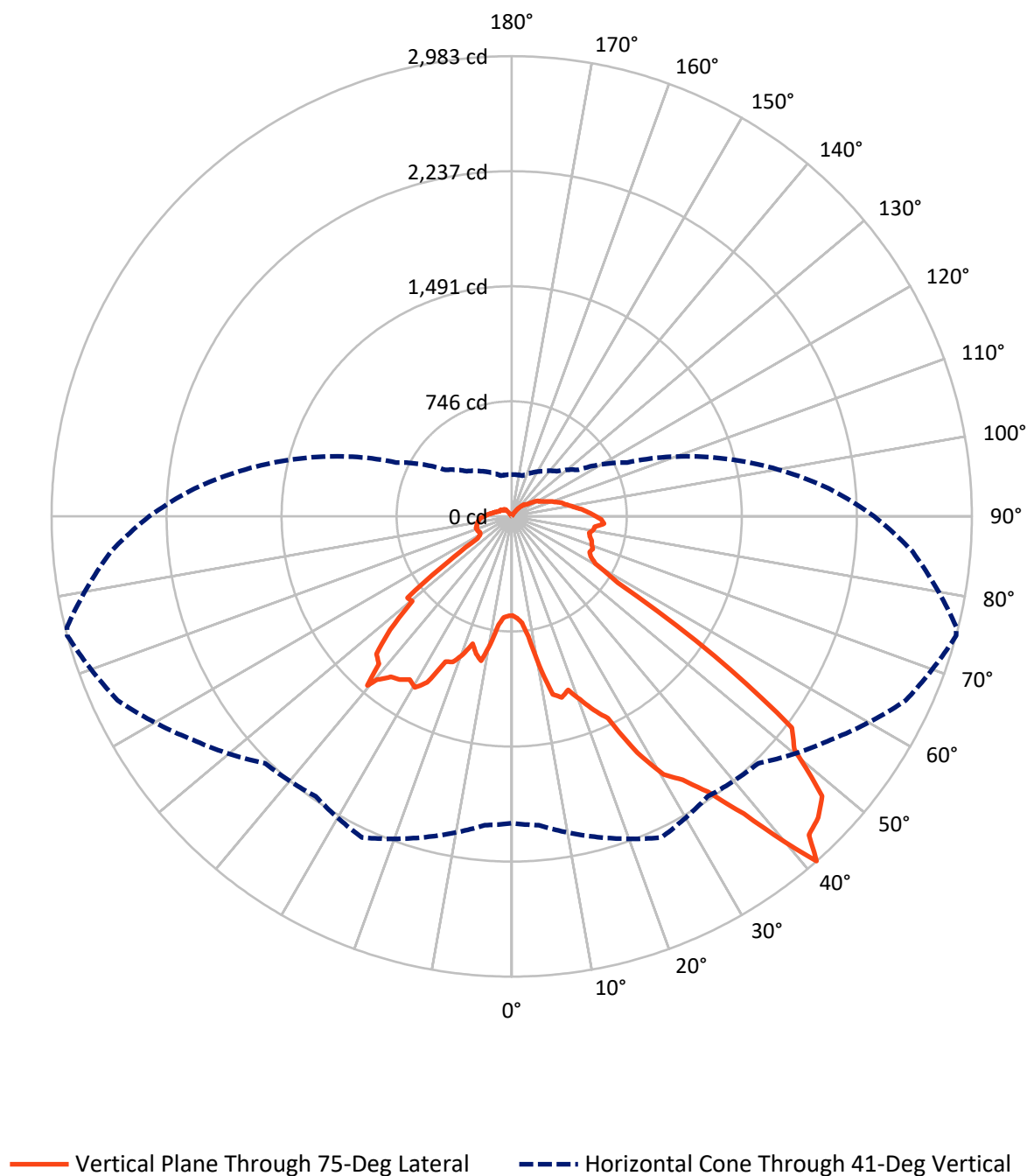


Based on 10 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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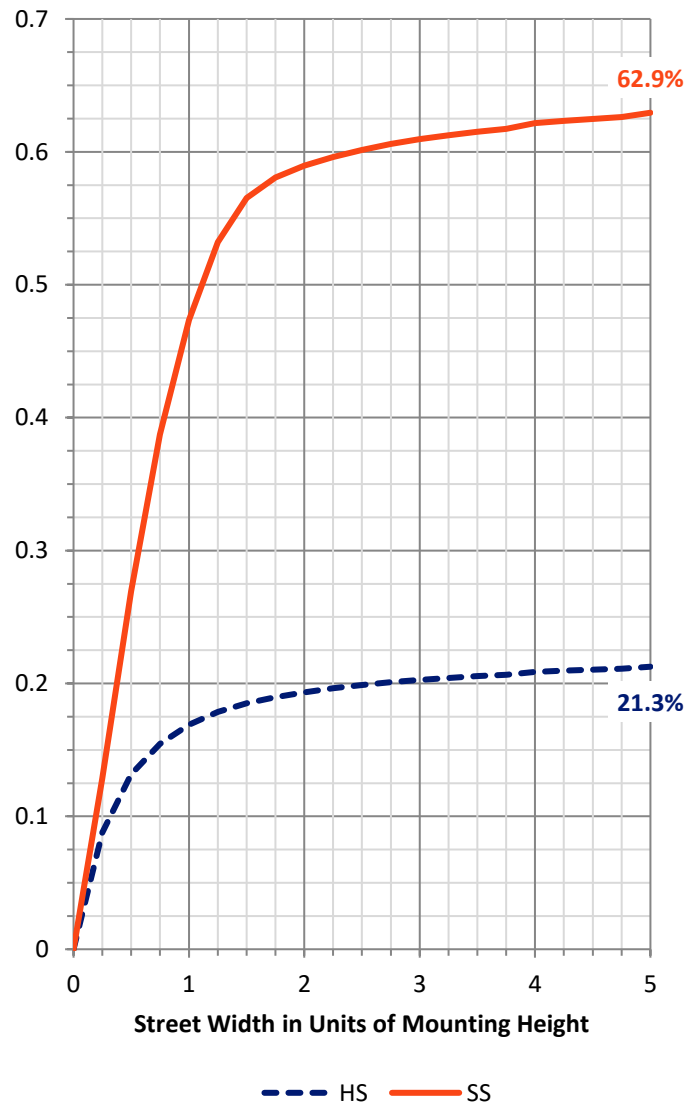
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1194.2	152.3	1346.5
	% Fixture	22.1	2.8	24.9
Street Side	Lumens	3512.0	555.0	4067.0
	% Fixture	64.9	10.3	75.1
Total	Lumens	4706.2	707.3	5413.5
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	1.2
10°-20°	267.9	4.9
20°-30°	550.4	10.2
30°-40°	896.0	16.6
40°-50°	1163.8	21.5
50°-60°	825.2	15.2
60°-70°	335.4	6.2
70°-80°	303.5	5.6
80°-90°	296.4	5.5
90°-100°	254.3	4.7
100°-110°	184.1	3.4
110°-120°	125.6	2.3
120°-130°	81.6	1.5
130°-140°	48.6	0.9
140°-150°	12.4	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4706.2	86.9
0°-180°	5413.5	100.0

Coefficient of Utilization



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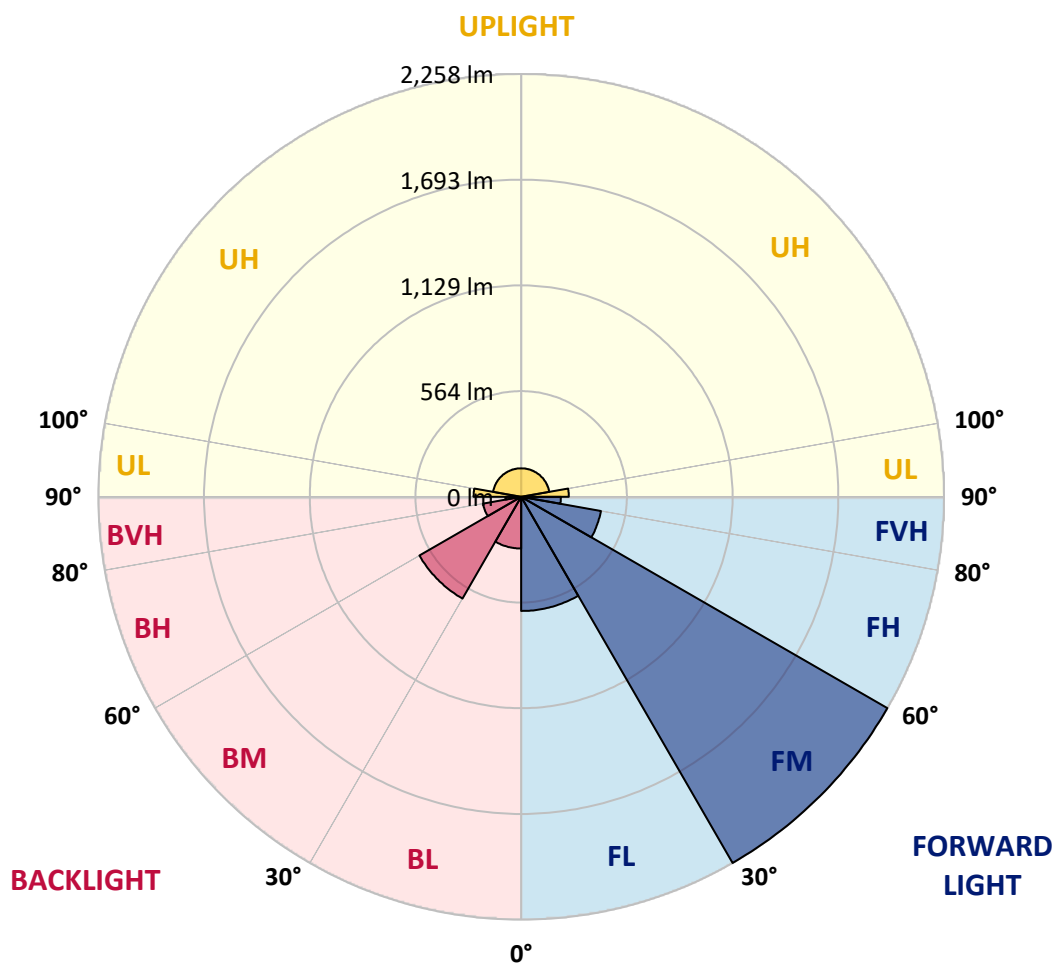
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	609.6	11.3			
FM	(30°-60°)	2257.8	41.7			
FH	(60°-80°)	432.3	8.0			G0/660
FVH	(80°-90°)	212.3	3.9			G2/225
BL	(0°-30°)	276.3	5.1	B1/500		
BM	(30°-60°)	627.2	11.6	B1/1000		
BH	(60°-80°)	206.6	3.8	B1/500		G1/500
BVH	(80°-90°)	84.1	1.6			G1/100
UL	(90°-100°)	254.3	4.7		U3/500	
UH	(100°-180°)	152.3	2.8		U3/500	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	642.2	642.2	642.2	642.2	642.2	642.2	642.2	642.2	642.2	642.2	642.2
2.5°	686.9	688.4	685.4	683.0	681.5	676.9	673.0	667.6	659.9	659.1	656.0
5°	749.3	749.3	749.3	743.9	737.8	727.7	719.2	707.0	692.2	691.5	680.0
7.5°	850.3	850.3	845.7	838.0	824.1	808.6	807.1	805.6	785.5	783.3	762.4
10°	959.0	955.9	958.2	964.4	971.4	992.2	1005.3	1006.8	985.2	979.8	949.8
12.5°	1001.4	1004.5	1031.4	1080.8	1164.1	1247.3	1290.5	1255.1	1183.3	1174.1	1103.2
15°	1066.1	1070.0	1114.7	1197.3	1336.0	1456.3	1419.2	1330.6	1217.3	1208.8	1099.4
17.5°	1239.6	1257.3	1300.5	1431.6	1572.7	1524.1	1399.2	1285.1	1182.5	1172.5	1080.8
20°	1361.4	1371.5	1454.7	1580.4	1679.8	1605.8	1520.2	1405.3	1267.3	1267.3	1195.7
22.5°	1462.4	1459.3	1527.2	1716.8	1774.6	1726.8	1627.4	1510.2	1363.7	1356.8	1263.5
25°	1621.2	1631.2	1748.4	1958.1	1904.9	1783.1	1652.1	1544.9	1448.5	1440.0	1346.8
27.5°	1713.7	1739.9	1874.9	2056.7	2022.9	1858.7	1743.8	1727.6	1734.5	1727.6	1625.9
30°	1736.9	1748.4	1915.0	2095.3	2072.2	1950.4	1950.4	1977.4	1942.0	1931.9	1795.5
32.5°	1794.7	1822.4	1982.0	2122.3	2066.1	2042.9	2055.2	2049.9	2034.4	2020.5	1861.8
35°	1888.8	1912.6	2062.2	2167.8	2065.2	2073.7	2184.7	2248.8	2193.2	2180.9	1944.2
37.5°	2136.2	2159.3	2294.3	2288.0	2120.0	2136.2	2337.4	2454.6	2444.5	2443.0	2208.7
40°	2086.8	2163.1	2326.6	2352.1	2201.7	2219.5	2460.0	2714.4	2831.5	2828.5	2537.8
41°	1988.2	2009.0	2151.6	2295.8	2214.8	2261.8	2523.9	2819.3	2982.6	2971.1	2607.2
42.5°	2023.6	2060.6	2145.4	2193.2	2199.4	2293.5	2574.1	2832.3	2823.9	2818.4	2520.9
45°	2325.9	2341.2	2376.7	2285.0	2130.0	2247.2	2546.3	2786.1	2785.3	2760.6	2626.5
47.5°	2180.1	2224.1	2375.2	2293.5	2123.1	2121.5	2318.1	2642.7	2707.4	2671.9	2338.2
50°	2062.2	2093.8	2181.6	2094.6	2019.8	2018.3	2203.2	2447.6	2373.7	2363.6	1904.9
52.5°	1829.3	1860.2	1922.6	1901.1	1858.7	1854.0	1995.2	2251.1	2274.2	2266.4	1922.6
55°	1390.7	1412.3	1647.5	1653.6	1622.0	1637.4	1751.5	1855.5	1596.5	1554.9	1080.8
57.5°	817.1	872.7	1100.9	1243.5	1309.0	1321.3	1282.1	1097.7	810.2	780.9	498.8
60°	403.1	431.7	590.5	741.6	911.2	917.4	792.5	701.5	622.2	604.4	436.3
62.5°	287.6	304.5	408.6	488.8	583.6	599.0	555.1	592.8	575.8	565.1	424.7
65°	260.5	275.2	362.3	404.7	444.1	467.9	478.7	542.0	555.1	548.1	421.7
67.5°	238.2	252.9	330.7	363.1	392.4	431.0	454.1	516.5	566.6	562.0	447.1
70°	210.4	227.4	298.3	337.7	373.9	417.9	449.5	515.0	551.2	545.0	433.2
72.5°	184.2	199.7	257.5	303.7	356.9	407.0	454.1	501.9	542.0	536.5	438.6
75°	160.4	175.7	225.9	273.6	334.6	410.1	457.2	498.0	523.4	515.8	431.0
77.5°	144.1	159.6	202.7	249.8	317.6	414.7	499.5	515.0	514.2	506.5	421.7
80°	131.0	146.5	187.3	232.8	302.2	424.7	534.3	549.6	535.8	525.8	424.0
82.5°	127.2	141.9	179.6	229.8	305.2	431.0	544.3	582.8	543.5	531.1	421.7
85°	141.1	150.4	189.7	245.9	325.3	441.7	540.4	601.3	600.6	587.5	460.2
87.5°	168.1	175.7	214.3	271.4	346.9	447.8	588.2	612.8	580.5	574.3	464.8
90°	208.2	213.6	253.6	306.1	369.3	444.8	484.9	516.5	538.1	533.5	441.0
92.5°	247.5	254.4	290.6	329.2	357.7	382.4	421.7	494.9	498.0	494.2	424.0
95°	293.7	298.3	319.2	338.4	344.6	353.1	392.4	424.7	460.2	455.6	408.6
97.5°	319.2	321.5	330.7	328.4	313.7	315.3	359.3	393.9	415.5	410.1	357.7
100°	313.0	315.3	316.8	303.0	282.9	289.1	325.3	366.9	383.9	381.6	331.5
102.5°	293.0	296.8	297.6	283.7	265.1	266.8	302.2	333.8	351.5	348.4	309.1
105°	287.6	289.1	282.1	263.6	242.0	245.1	279.1	313.0	333.8	332.3	292.2
107.5°	259.0	260.5	250.5	232.8	225.2	233.5	264.4	286.0	299.9	299.9	260.5



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CATALOG NUMBER: UTLD-AF24-60-D-U-SL3-A

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	217.4	217.4	215.1	211.2	212.8	225.2	250.5	264.4	276.0	275.2	238.2
112.5°	210.4	208.9	206.6	203.6	198.9	208.9	225.9	242.8	245.1	244.4	212.8
115°	207.4	205.1	197.3	188.8	183.5	191.2	204.3	219.7	225.9	225.2	202.7
117.5°	183.5	183.5	177.3	171.1	168.8	178.8	195.1	205.1	205.8	207.4	185.8
120°	164.2	164.2	160.4	157.2	158.8	163.5	181.2	189.7	197.3	196.6	178.1
122.5°	149.6	150.4	147.2	141.1	146.5	151.1	161.1	169.6	178.1	177.3	164.2
125°	134.9	134.1	131.0	124.1	136.5	142.6	143.4	142.6	151.1	151.1	139.5
127.5°	119.5	118.8	115.6	111.8	128.0	136.5	134.9	122.5	128.0	127.2	121.8
130°	117.9	117.1	111.8	107.2	114.9	129.5	122.5	114.1	118.8	119.5	114.1
132.5°	117.1	116.4	111.0	103.3	101.0	116.4	104.0	105.6	111.0	111.0	106.4
135°	109.5	108.7	104.0	93.3	82.4	96.4	82.4	90.9	97.9	97.9	94.0
137.5°	96.4	95.5	90.9	81.7	66.3	68.6	62.4	76.3	84.0	84.8	81.7
140°	76.3	77.1	72.4	63.2	47.8	36.2	40.8	59.3	67.1	67.1	66.3
142.5°	57.1	57.1	52.4	43.2	27.7	13.1	23.1	36.2	45.5	46.2	47.8
145°	40.1	40.1	35.5	27.7	13.9	2.4	10.8	21.6	28.5	28.5	30.8
147.5°	26.2	26.2	22.4	15.4	3.9	0.8	3.1	10.8	17.0	17.0	18.5
150°	16.2	16.2	12.4	4.6	0.8	0.0	0.8	2.4	7.7	7.7	10.0
152.5°	5.4	4.6	2.4	1.5	0.8	0.0	0.0	0.8	0.8	0.8	2.4
155°	1.5	1.5	1.5	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°	642.2	642.2	642.2	642.2	642.2	642.2	642.2	642.2	642.2	642.2	642.2
2.5°	652.2	650.6	645.3	638.3	629.8	619.1	612.1	609.1	605.2	602.1	603.6
5°	673.8	668.4	656.0	633.7	612.8	597.5	585.1	574.3	569.0	564.3	564.3
7.5°	752.4	743.2	708.5	670.6	623.7	581.2	551.2	535.8	518.0	513.4	512.7
10°	923.5	912.0	838.7	747.8	659.1	575.8	500.3	459.5	440.2	430.2	432.5
12.5°	1065.4	1039.2	955.9	852.6	730.1	595.9	491.1	417.9	385.4	373.1	368.5
15°	1053.8	1009.9	919.7	821.8	726.2	628.3	523.4	441.0	373.9	351.5	346.9
17.5°	1028.4	982.1	862.7	737.0	625.2	565.1	506.5	446.3	395.5	361.5	355.4
20°	1157.9	1105.5	949.8	824.9	667.6	515.8	448.7	414.7	382.4	365.4	361.5
22.5°	1213.4	1160.2	1016.8	858.8	703.1	572.0	462.6	400.1	374.7	371.5	366.9
25°	1296.7	1229.6	1034.5	835.6	685.4	578.2	463.3	401.6	363.9	363.9	361.5
27.5°	1565.7	1467.8	1208.0	928.2	711.6	555.9	451.7	383.9	338.4	320.7	316.8
30°	1686.0	1592.7	1274.3	952.1	723.1	561.2	430.2	352.3	322.2	309.1	307.6
32.5°	1773.1	1651.2	1246.6	894.3	664.5	524.3	411.6	340.7	310.7	299.1	296.0
35°	1816.2	1656.0	1283.6	873.4	629.0	481.1	390.1	327.7	309.1	299.9	299.9
37.5°	2026.7	1827.8	1302.1	868.1	602.1	439.5	370.8	328.4	289.1	276.0	276.7
40°	2317.4	2034.4	1371.5	828.0	549.6	424.7	358.4	313.7	277.5	269.0	266.0
41°	2349.7	2064.5	1440.8	827.2	525.0	414.0	357.7	312.2	272.9	271.4	270.6
42.5°	2263.4	1968.2	1285.1	751.7	492.7	396.3	356.2	310.7	268.3	272.1	271.4
45°	2362.1	2069.1	1250.5	688.4	436.3	366.9	337.7	302.2	265.1	258.3	259.0
47.5°	2052.1	1753.8	1076.1	599.0	386.3	335.3	312.2	282.9	257.5	253.6	253.6
50°	1634.4	1375.3	846.5	526.5	339.9	309.1	287.6	268.3	242.0	232.0	235.2
52.5°	1665.2	1393.1	858.1	490.3	309.1	282.1	268.3	244.4	213.6	195.1	198.1
55°	915.8	794.0	501.9	376.2	286.7	262.1	245.9	221.3	187.3	166.5	168.8
57.5°	415.5	345.3	266.8	259.0	248.3	241.3	223.5	201.2	168.8	145.7	145.7
60°	371.5	304.5	238.2	216.7	222.0	222.8	204.3	182.7	151.1	124.1	124.9
62.5°	363.1	296.8	231.3	206.6	211.2	211.2	193.5	172.0	143.4	115.6	115.6
65°	361.5	293.7	232.0	203.6	206.6	207.4	189.7	172.0	152.6	132.6	134.1
67.5°	383.1	310.7	239.8	201.2	204.3	204.3	189.7	176.6	165.0	152.6	154.2
70°	371.5	305.2	238.2	201.2	199.7	199.7	188.8	177.3	171.1	160.4	161.1
72.5°	376.2	314.6	242.8	199.7	193.5	191.9	185.1	178.1	172.7	167.3	168.1
75°	369.3	311.5	235.2	191.9	184.2	181.2	176.6	175.0	175.7	173.5	172.0
77.5°	358.4	306.1	229.8	184.2	175.7	168.8	165.7	166.5	169.6	167.3	165.0
80°	356.9	306.8	227.4	179.6	165.0	153.4	149.6	151.1	151.9	147.2	142.6
82.5°	352.3	300.6	216.7	167.3	148.7	134.1	131.0	133.4	134.1	129.5	124.9
85°	379.3	316.8	213.6	155.7	134.9	119.5	114.1	114.9	109.5	102.5	97.9
87.5°	390.1	319.9	201.2	138.0	121.0	107.9	101.0	96.4	87.9	76.3	73.2
90°	370.8	303.7	181.2	118.8	106.4	96.4	87.9	81.7	70.9	59.3	55.5
92.5°	359.3	291.4	166.5	106.4	93.3	84.8	77.1	67.8	57.1	44.0	41.6
95°	352.3	286.7	157.2	94.8	83.3	74.8	67.1	58.6	47.8	37.7	36.2
97.5°	306.8	248.3	138.8	84.8	73.2	65.6	58.6	50.1	40.1	32.4	30.8
100°	285.2	231.3	128.8	76.3	64.8	57.8	51.7	44.7	36.2	30.8	30.1
102.5°	266.8	215.1	117.1	68.6	57.8	50.8	45.5	39.3	33.1	28.5	29.3
105°	252.9	205.1	112.5	63.2	51.7	46.2	40.1	35.5	29.3	26.2	26.2
107.5°	224.3	182.0	99.4	57.1	47.1	41.6	37.0	32.4	27.7	25.5	26.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	207.4	168.8	94.8	54.7	44.7	38.6	34.0	29.3	24.7	24.7	24.7
112.5°	184.2	151.9	87.9	51.7	41.6	36.2	31.6	26.2	21.6	22.4	23.1
115°	176.6	146.5	84.8	49.3	40.1	34.7	29.3	24.7	19.2	20.8	21.6
117.5°	162.6	135.6	82.4	49.3	38.6	32.4	27.7	23.1	18.5	20.0	20.0
120°	158.0	133.4	82.4	48.6	37.0	30.8	26.2	20.0	17.0	18.5	18.5
122.5°	147.2	124.9	78.7	47.8	35.5	29.3	25.5	17.0	14.6	16.2	16.2
125°	126.4	108.7	70.9	44.7	34.0	29.3	24.7	13.9	13.9	15.4	15.4
127.5°	110.3	95.5	64.8	44.0	34.7	30.8	23.1	11.6	12.4	13.9	13.9
130°	104.9	93.3	67.1	47.8	37.7	32.4	17.0	10.8	11.6	13.1	13.9
132.5°	99.4	90.2	68.6	51.7	40.1	31.6	13.9	10.0	10.8	12.4	12.4
135°	88.7	81.7	63.9	49.3	37.7	25.5	10.0	8.5	10.0	11.6	11.6
137.5°	77.8	72.4	58.6	45.5	34.7	20.0	7.0	7.7	8.5	9.2	9.2
140°	63.9	59.3	48.6	37.0	25.5	10.8	4.6	6.1	7.0	7.7	7.7
142.5°	46.2	43.2	34.7	24.7	14.6	3.9	3.1	4.6	5.4	6.1	6.1
145°	30.8	28.5	22.4	15.4	5.4	2.4	1.5	3.1	4.6	4.6	5.4
147.5°	18.5	17.7	13.1	7.0	2.4	1.5	1.5	2.4	3.1	3.9	3.9
150°	9.2	9.2	6.1	2.4	1.5	0.8	0.8	0.8	1.5	2.4	2.4
152.5°	2.4	1.5	1.5	1.5	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)