

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: P240430

Luminaire Tested: **UTLD-AF24-80-D-U-T3-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-30)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-80-D-U-T3-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7476.7 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B2 - U3 - G3

Input Watts (W): 83
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



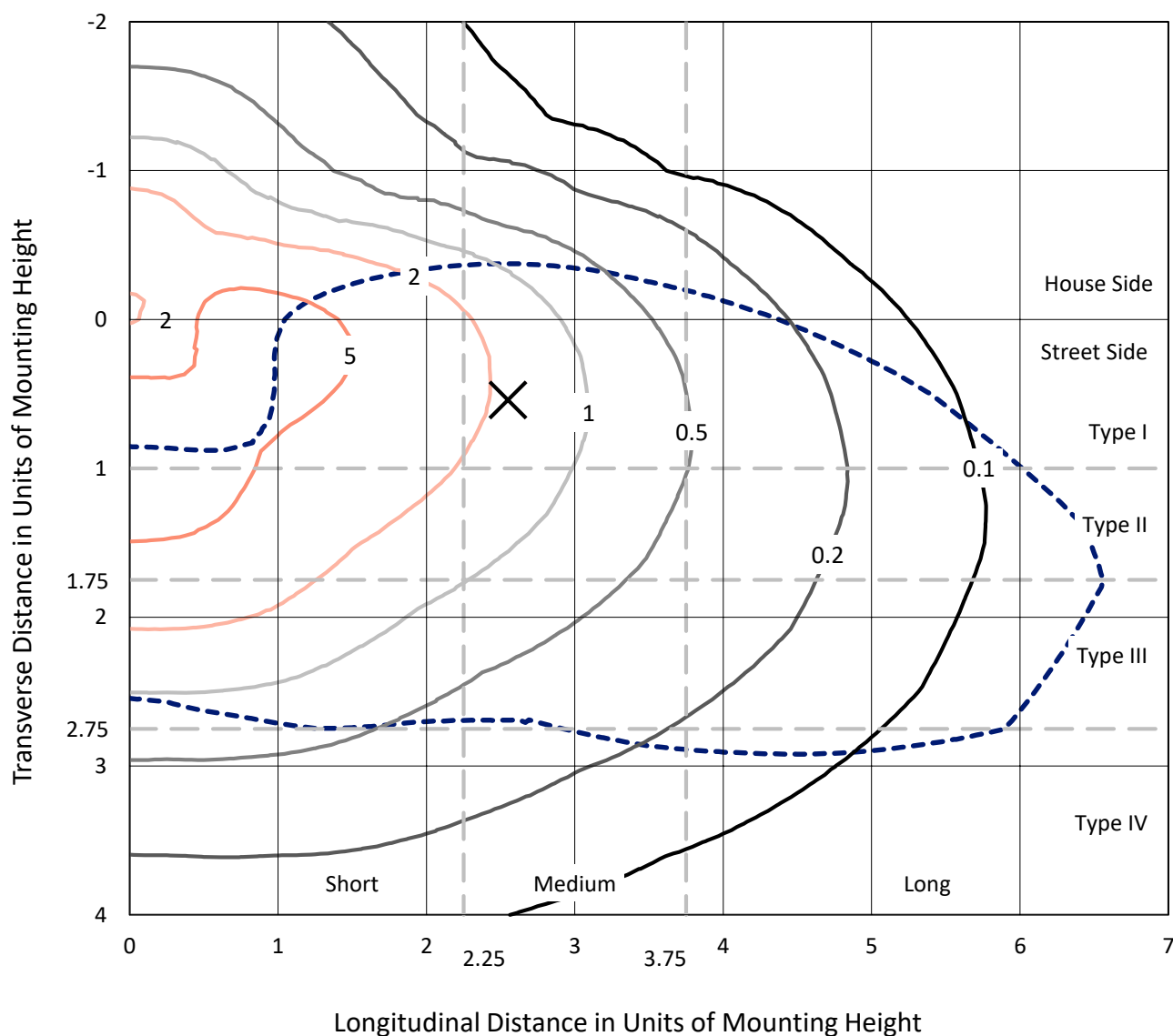
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

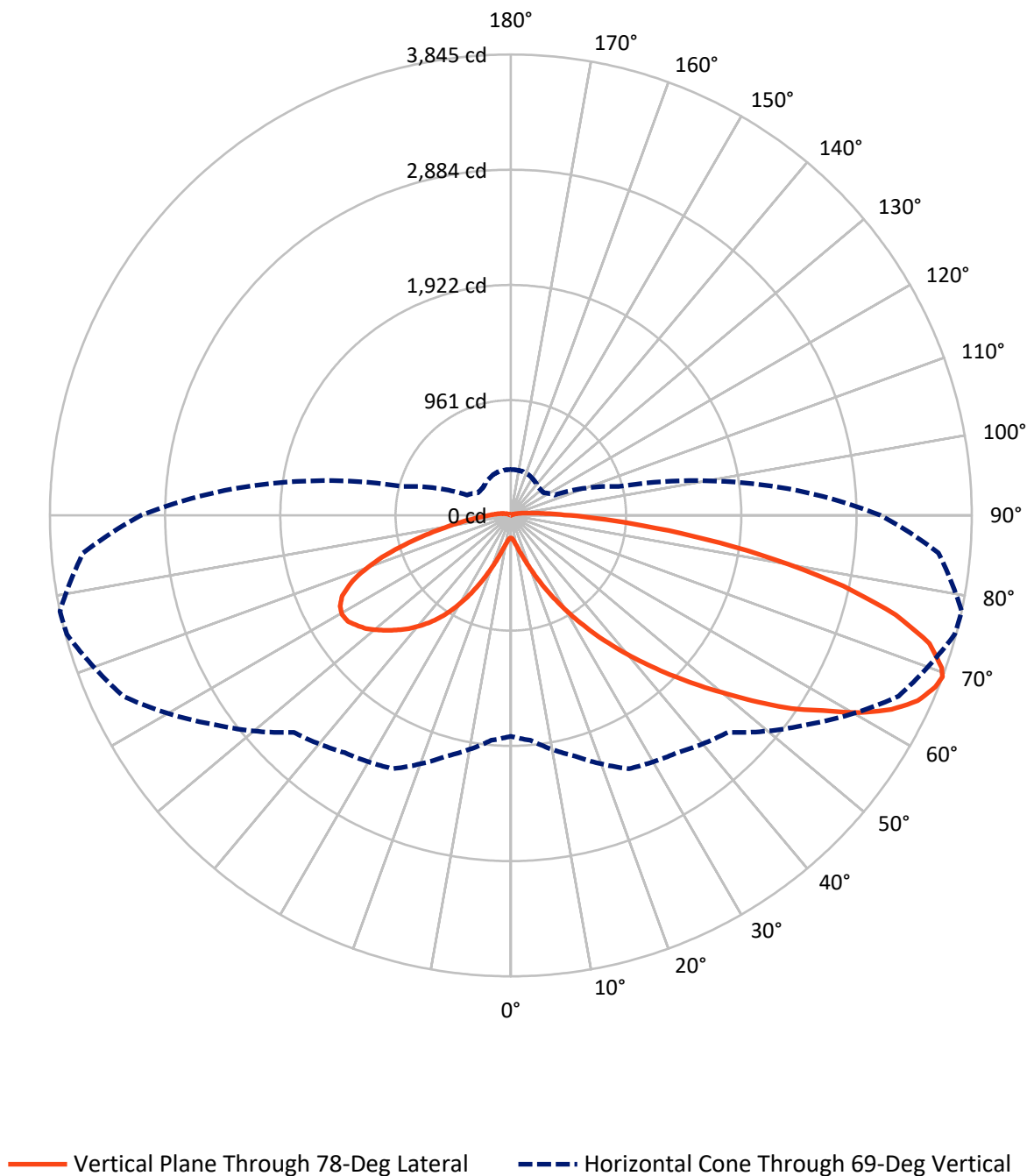


Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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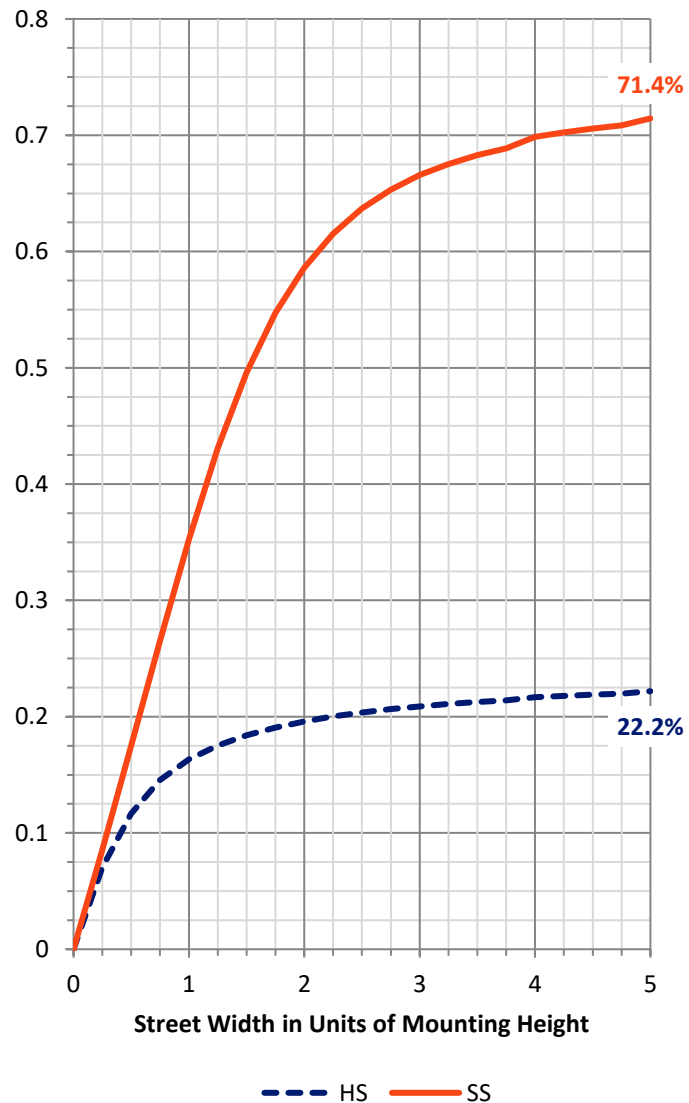
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1736.8	130.5	1867.3
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	5466.0	143.4	5609.4
	% Fixture	73.1	1.9	75.0
Total	Lumens	7202.9	273.9	7476.7
	% Fixture	96.3	3.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.7	0.3
10°-20°	96.0	1.3
20°-30°	273.9	3.7
30°-40°	582.2	7.8
40°-50°	1009.3	13.5
50°-60°	1511.1	20.2
60°-70°	1798.6	24.1
70°-80°	1371.9	18.3
80°-90°	539.0	7.2
90°-100°	158.2	2.1
100°-110°	64.0	0.9
110°-120°	28.8	0.4
120°-130°	14.0	0.2
130°-140°	6.5	0.1
140°-150°	2.0	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7202.9	96.3
0°-180°	7476.7	100.0

Coefficient of Utilization



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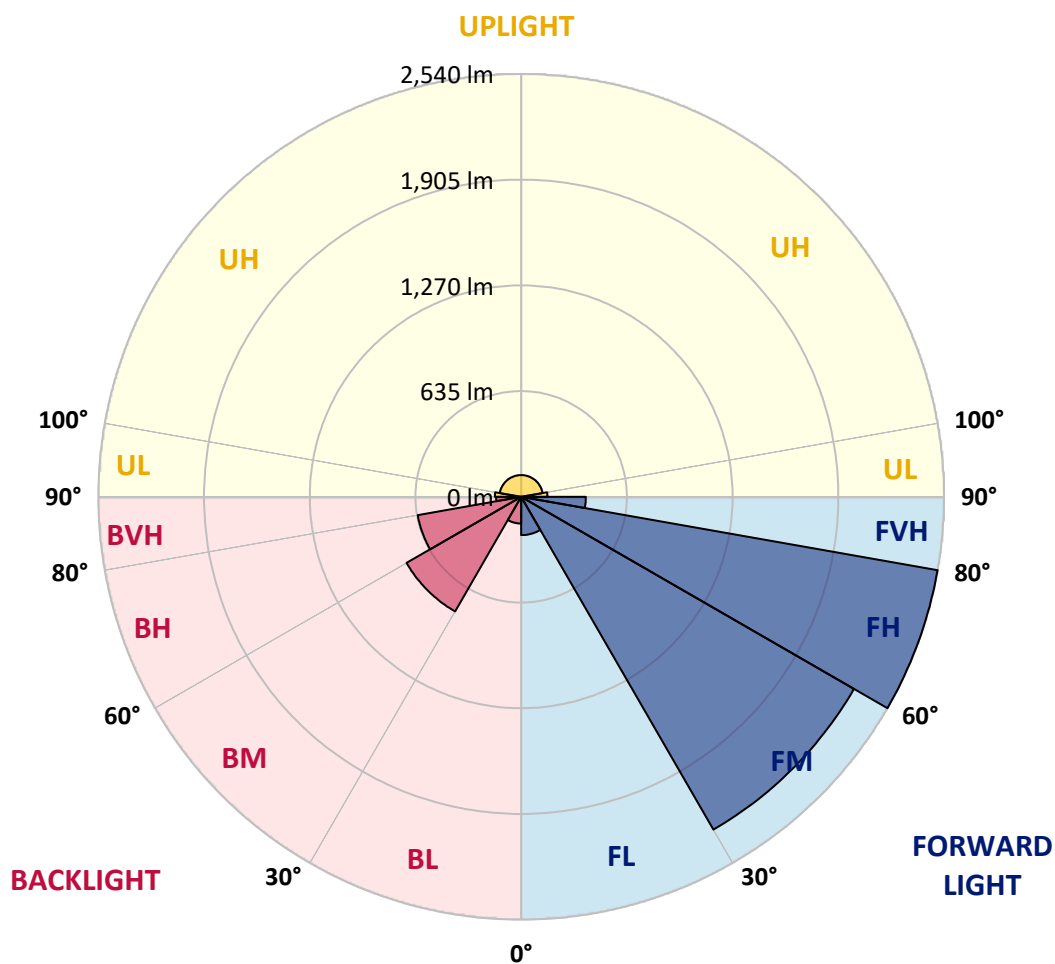
CATALOG NUMBER: UTLD-AF24-80-D-U-T3-TL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	230.1	3.1			
FM	(30°-60°)	2307.9	30.9			
FH	(60°-80°)	2539.7	34.0			G2/5000
FVH	(80°-90°)	388.4	5.2			G3/500
BL	(0°-30°)	160.6	2.1	B1/500		
BM	(30°-60°)	794.8	10.6	B1/1000		
BH	(60°-80°)	630.9	8.4	B2/1000		G2/1000
BVH	(80°-90°)	150.6	2.0			G2/225
UL	(90°-100°)	158.2	2.1		U3/500	
UH	(100°-180°)	130.5	1.7		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8
2.5°	203.0	203.0	202.0	202.0	201.0	199.2	196.3	194.5	193.5	193.5	191.6
5°	225.6	225.6	223.7	223.7	220.9	218.1	214.3	209.6	206.7	205.8	203.0
7.5°	255.8	254.8	253.9	251.1	248.3	242.5	237.8	233.1	227.5	226.6	222.8
10°	294.5	292.7	292.7	288.9	283.2	276.6	268.1	261.5	255.8	254.8	251.1
12.5°	345.5	343.6	340.7	333.2	324.7	314.4	306.8	300.1	294.5	292.7	287.9
15°	405.9	405.0	397.4	388.0	372.9	359.7	351.2	345.5	343.6	341.7	337.0
17.5°	481.4	476.7	469.1	450.3	430.5	411.5	404.0	405.0	405.9	405.9	402.1
20°	565.4	563.5	552.2	526.7	499.3	475.8	469.1	474.8	482.3	482.3	481.4
22.5°	675.9	670.2	649.5	613.6	574.9	551.3	541.9	554.1	574.9	575.8	579.6
25°	796.7	794.8	761.8	708.9	659.8	631.5	624.9	640.0	677.7	680.6	691.0
27.5°	930.7	926.0	895.8	821.2	757.0	715.5	712.7	745.7	786.3	800.5	815.6
30°	1093.0	1088.3	1030.7	944.9	866.5	811.8	812.7	855.2	917.5	929.8	951.4
32.5°	1261.1	1256.4	1196.9	1089.3	985.5	917.5	919.4	982.6	1054.4	1069.5	1093.0
35°	1454.6	1452.7	1374.3	1242.2	1111.0	1028.9	1043.0	1110.1	1198.8	1223.3	1244.1
37.5°	1664.1	1643.4	1567.0	1413.1	1248.8	1159.1	1169.5	1259.2	1364.0	1375.3	1396.0
40°	1874.7	1870.0	1778.4	1605.6	1407.4	1296.0	1310.2	1411.2	1524.4	1545.2	1556.5
42.5°	2096.4	2094.6	1987.0	1798.1	1571.7	1447.1	1460.3	1575.4	1701.9	1721.7	1727.4
45°	2332.4	2319.2	2212.5	2001.1	1761.4	1607.5	1631.1	1750.1	1899.2	1915.3	1918.0
47.5°	2535.4	2518.4	2438.2	2218.3	1946.4	1781.2	1799.2	1947.3	2104.0	2121.0	2114.4
50°	2718.5	2710.9	2629.8	2435.3	2149.3	1956.8	1982.3	2143.7	2320.2	2340.9	2334.4
52.5°	2838.4	2833.7	2800.6	2612.8	2327.7	2136.1	2171.9	2347.6	2556.1	2586.3	2551.4
55°	2897.8	2897.8	2904.5	2768.5	2491.0	2306.0	2361.7	2574.1	2801.6	2844.0	2795.0
57.5°	2893.1	2887.5	2942.2	2875.2	2616.6	2442.9	2551.4	2814.8	3053.6	3070.6	3045.1
60°	2785.5	2803.5	2899.8	2912.0	2706.2	2564.6	2732.7	3037.6	3294.3	3339.6	3262.2
62.5°	2613.7	2647.7	2788.4	2869.6	2730.8	2651.5	2888.4	3232.9	3518.0	3564.3	3453.8
65°	2376.8	2411.7	2584.5	2741.2	2681.7	2680.7	2995.1	3411.3	3696.4	3729.5	3581.2
67.5°	2079.5	2090.8	2290.0	2515.5	2543.0	2636.3	3046.0	3534.1	3825.7	3820.1	3626.6
69°	1842.5	1883.2	2079.5	2331.5	2416.4	2559.0	3036.6	3568.1	3833.3	3844.7	3581.2
70°	1722.6	1730.2	1923.8	2179.5	2327.7	2489.1	3004.5	3560.5	3821.0	3812.5	3529.4
72.5°	1337.5	1352.6	1530.1	1808.6	2013.4	2256.9	2846.9	3433.0	3672.8	3651.1	3262.2
75°	954.3	979.8	1143.0	1404.6	1647.2	1953.9	2556.1	3159.3	3368.0	3317.9	2878.1
77.5°	651.3	677.7	799.5	1039.2	1280.9	1615.0	2156.0	2745.0	2888.4	2836.5	2352.3
80°	418.2	436.1	532.3	722.1	952.5	1240.3	1717.0	2199.3	2326.8	2234.2	1798.1
82.5°	276.6	287.9	355.0	489.0	666.5	914.6	1273.4	1643.4	1700.0	1641.5	1260.2
85°	186.9	194.5	242.5	332.3	467.3	643.7	901.4	1143.0	1189.4	1108.2	840.0
87.5°	128.4	136.0	174.6	232.2	324.7	449.3	604.2	768.3	754.2	716.5	548.4
90°	91.6	98.2	125.5	165.2	229.3	312.4	403.0	486.1	484.3	447.4	350.2
92.5°	66.1	71.7	95.3	123.7	169.9	219.0	271.9	305.9	305.9	290.7	232.2
95°	50.0	53.8	72.7	94.4	127.5	162.3	189.8	207.7	203.9	192.5	168.0
97.5°	39.7	42.5	57.6	76.4	101.0	125.5	141.6	143.5	140.7	136.9	124.6
100°	33.0	34.9	48.2	64.1	84.0	102.0	109.5	106.7	102.9	102.0	95.3
102.5°	28.3	29.3	41.5	55.6	71.7	84.9	87.8	83.1	78.4	77.4	74.6
105°	25.5	25.5	35.9	48.2	61.4	70.8	72.7	67.0	60.5	58.5	57.6
107.5°	22.6	23.6	31.2	42.5	52.9	60.5	60.5	53.8	46.2	44.4	44.4



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CATALOG NUMBER: UTLD-AF24-80-D-U-T3-TL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	20.8	20.8	27.4	37.7	46.2	52.0	50.9	43.4	35.9	34.0	34.9
112.5°	18.9	18.9	24.6	33.0	40.6	44.4	42.5	34.9	28.3	27.4	27.4
115°	17.9	17.9	21.7	29.3	34.9	37.7	35.9	28.3	22.6	21.7	22.6
117.5°	16.1	17.0	19.8	25.5	30.2	33.0	30.2	23.6	18.9	17.9	19.8
120°	15.1	16.1	17.9	21.7	26.4	28.3	24.6	19.8	16.1	16.1	17.0
122.5°	14.1	15.1	16.1	19.8	22.6	23.6	20.8	16.1	13.2	14.1	15.1
125°	14.1	14.1	15.1	17.0	19.8	19.8	17.0	13.2	12.3	12.3	13.2
127.5°	13.2	13.2	13.2	15.1	17.0	17.0	14.1	11.4	10.4	11.4	12.3
130°	12.3	12.3	12.3	13.2	14.1	14.1	12.3	9.4	9.4	9.4	10.4
132.5°	11.4	11.4	11.4	11.4	12.3	11.4	9.4	7.6	8.5	8.5	9.4
135°	10.4	10.4	10.4	10.4	9.4	8.5	6.6	6.6	7.6	7.6	8.5
137.5°	9.4	9.4	9.4	8.5	7.6	6.6	5.6	5.6	6.6	6.6	7.6
140°	8.5	8.5	8.5	6.6	5.6	4.7	3.8	3.8	5.6	5.6	5.6
142.5°	7.6	7.6	6.6	5.6	4.7	2.9	1.8	2.9	3.8	3.8	4.7
145°	5.6	5.6	5.6	4.7	2.9	1.8	0.9	1.8	2.9	2.9	3.8
147.5°	4.7	4.7	4.7	3.8	1.8	0.9	0.9	0.9	1.8	1.8	2.9
150°	3.8	3.8	2.9	2.9	0.9	0.0	0.0	0.9	0.9	1.8	1.8
152.5°	2.9	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.9	0.9	0.9
155°	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.9	0.9
157.5°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.9	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°	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8
2.5°	190.7	189.8	188.7	186.9	186.0	184.0	182.2	180.2	180.2	180.2	179.3
5°	202.0	200.1	197.3	193.5	190.7	187.8	185.1	182.2	181.3	180.2	180.2
7.5°	219.9	218.1	212.4	207.7	202.0	198.2	193.5	191.6	189.8	188.7	188.7
10°	247.3	243.6	236.0	228.4	221.8	214.3	209.6	206.7	203.9	203.0	203.9
12.5°	284.1	277.5	268.1	256.8	245.4	236.0	230.4	227.5	226.6	225.6	225.6
15°	335.1	330.4	311.5	291.6	275.6	262.4	254.8	252.1	257.7	259.6	259.6
17.5°	401.2	392.7	370.0	342.7	309.6	289.8	284.1	288.9	293.6	299.2	300.1
20°	483.2	469.1	439.9	395.5	351.2	322.8	318.1	323.8	335.1	342.7	343.6
22.5°	573.0	563.5	518.2	452.1	392.7	359.7	349.2	357.7	375.7	386.1	387.0
25°	688.1	673.0	605.1	514.4	436.1	389.8	377.6	389.8	411.5	427.6	428.5
27.5°	813.7	790.0	701.3	576.7	472.9	415.3	400.2	416.2	445.5	464.4	466.3
30°	943.9	910.9	796.7	635.3	506.0	432.3	416.2	436.1	469.1	490.8	493.7
32.5°	1080.7	1041.2	884.4	686.2	527.6	441.7	424.7	448.4	483.2	506.0	508.8
35°	1220.5	1170.5	966.6	723.0	538.1	443.7	425.8	452.1	486.1	509.7	512.6
37.5°	1367.8	1294.1	1038.3	748.5	539.9	438.0	422.0	448.4	480.5	502.2	504.0
40°	1510.3	1414.9	1098.8	759.8	533.4	429.5	412.5	439.9	467.3	483.2	485.2
42.5°	1667.0	1545.2	1151.6	759.8	520.1	419.1	402.1	427.6	449.3	460.6	461.6
45°	1826.5	1675.5	1193.2	750.4	503.1	405.9	391.7	414.4	431.4	436.1	436.1
47.5°	2010.6	1812.4	1231.8	734.4	484.3	392.7	381.4	402.1	414.4	414.4	415.3
50°	2195.6	1955.8	1261.1	711.8	462.5	381.4	372.9	392.7	402.1	396.5	396.5
52.5°	2395.6	2103.1	1288.5	682.4	442.7	370.9	367.1	388.0	394.6	386.1	384.2
55°	2597.7	2241.8	1294.1	645.7	420.0	362.4	364.4	384.2	390.8	381.4	380.4
57.5°	2813.8	2384.4	1293.2	603.1	400.2	355.9	361.5	383.2	389.8	380.4	379.4
60°	2980.9	2496.7	1262.9	558.8	382.3	349.2	360.6	382.3	389.8	382.3	382.3
62.5°	3132.0	2562.8	1206.4	511.6	365.3	344.5	357.7	380.4	388.0	384.2	384.2
65°	3200.8	2581.6	1119.5	465.3	351.2	338.9	355.9	377.6	386.1	385.1	386.1
67.5°	3158.4	2493.9	1004.3	423.8	337.9	332.3	351.2	372.9	382.3	384.2	385.1
69°	3084.7	2395.6	932.6	402.1	330.4	327.5	347.4	368.2	379.4	382.3	382.3
70°	3019.6	2311.7	873.1	388.9	324.7	324.7	345.5	365.3	376.7	379.4	380.4
72.5°	2704.4	2037.9	738.2	353.9	312.4	315.3	336.0	355.9	368.2	370.9	370.9
75°	2317.4	1671.7	601.3	324.7	298.3	304.8	324.7	343.6	355.0	357.7	356.8
77.5°	1845.4	1296.0	488.0	299.2	282.2	288.9	309.6	327.5	338.9	340.7	337.0
80°	1377.2	944.9	395.5	272.8	263.3	271.9	290.7	305.9	317.1	318.1	312.4
82.5°	954.3	682.4	321.9	247.3	242.5	249.2	266.2	279.4	289.8	286.9	284.1
85°	636.2	468.2	263.3	219.0	219.0	226.6	238.9	247.3	257.7	253.9	248.3
87.5°	419.1	322.8	216.1	191.6	193.5	200.1	209.6	212.4	221.8	219.0	212.4
90°	284.1	232.2	177.5	165.2	168.0	174.6	179.3	179.3	186.0	181.3	178.4
92.5°	202.0	177.5	148.2	142.5	145.4	151.0	152.0	148.2	153.9	151.0	147.2
95°	152.0	139.7	125.5	122.8	126.4	130.2	129.3	123.7	125.5	123.7	122.8
97.5°	117.9	114.3	106.7	104.8	108.5	111.4	109.5	102.9	103.8	102.0	100.0
100°	95.3	92.5	90.6	90.6	93.5	94.4	91.6	85.9	84.9	82.1	83.1
102.5°	75.5	75.5	76.4	78.4	80.2	80.2	76.4	71.7	69.9	67.0	67.0
105°	59.4	60.5	64.1	65.2	67.0	67.0	63.2	59.4	55.6	52.9	52.9
107.5°	46.2	48.2	52.0	54.7	56.7	55.6	52.9	49.1	44.4	41.5	41.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	36.8	38.7	42.5	46.2	47.2	47.2	44.4	39.7	34.0	33.0	33.0
112.5°	30.2	31.2	35.9	38.7	39.7	39.7	36.8	33.0	27.4	26.4	26.4
115°	24.6	25.5	29.3	32.1	33.0	33.0	31.2	27.4	21.7	21.7	21.7
117.5°	20.8	21.7	24.6	27.4	28.3	28.3	25.5	21.7	17.9	17.9	17.9
120°	17.9	18.9	20.8	22.6	23.6	23.6	21.7	17.9	15.1	15.1	15.1
122.5°	16.1	17.0	17.9	19.8	20.8	20.8	17.9	14.1	13.2	13.2	13.2
125°	14.1	15.1	16.1	17.0	17.9	17.0	15.1	12.3	11.4	12.3	12.3
127.5°	12.3	13.2	14.1	14.1	15.1	14.1	12.3	10.4	9.4	10.4	10.4
130°	11.4	11.4	12.3	12.3	13.2	12.3	10.4	8.5	8.5	9.4	9.4
132.5°	10.4	10.4	10.4	10.4	11.4	10.4	8.5	6.6	7.6	8.5	8.5
135°	8.5	8.5	9.4	8.5	9.4	7.6	6.6	5.6	6.6	7.6	7.6
137.5°	7.6	7.6	7.6	7.6	6.6	6.6	4.7	4.7	5.6	6.6	5.6
140°	6.6	6.6	6.6	5.6	5.6	4.7	3.8	3.8	4.7	4.7	4.7
142.5°	4.7	4.7	4.7	4.7	3.8	2.9	1.8	2.9	2.9	3.8	3.8
145°	3.8	3.8	3.8	2.9	1.8	1.8	0.9	1.8	1.8	2.9	2.9
147.5°	2.9	2.9	2.9	1.8	1.8	0.9	0.9	0.9	1.8	1.8	1.8
150°	1.8	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.9	0.9	0.9
152.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.9	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)