

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: P266410

Luminaire Tested: **UTLD-AF24-60-D-U-T2U-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-33)
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-T2U-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5228.3 lumens
Efficiency: N/A
Efficacy: 81.7 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: B2 - 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



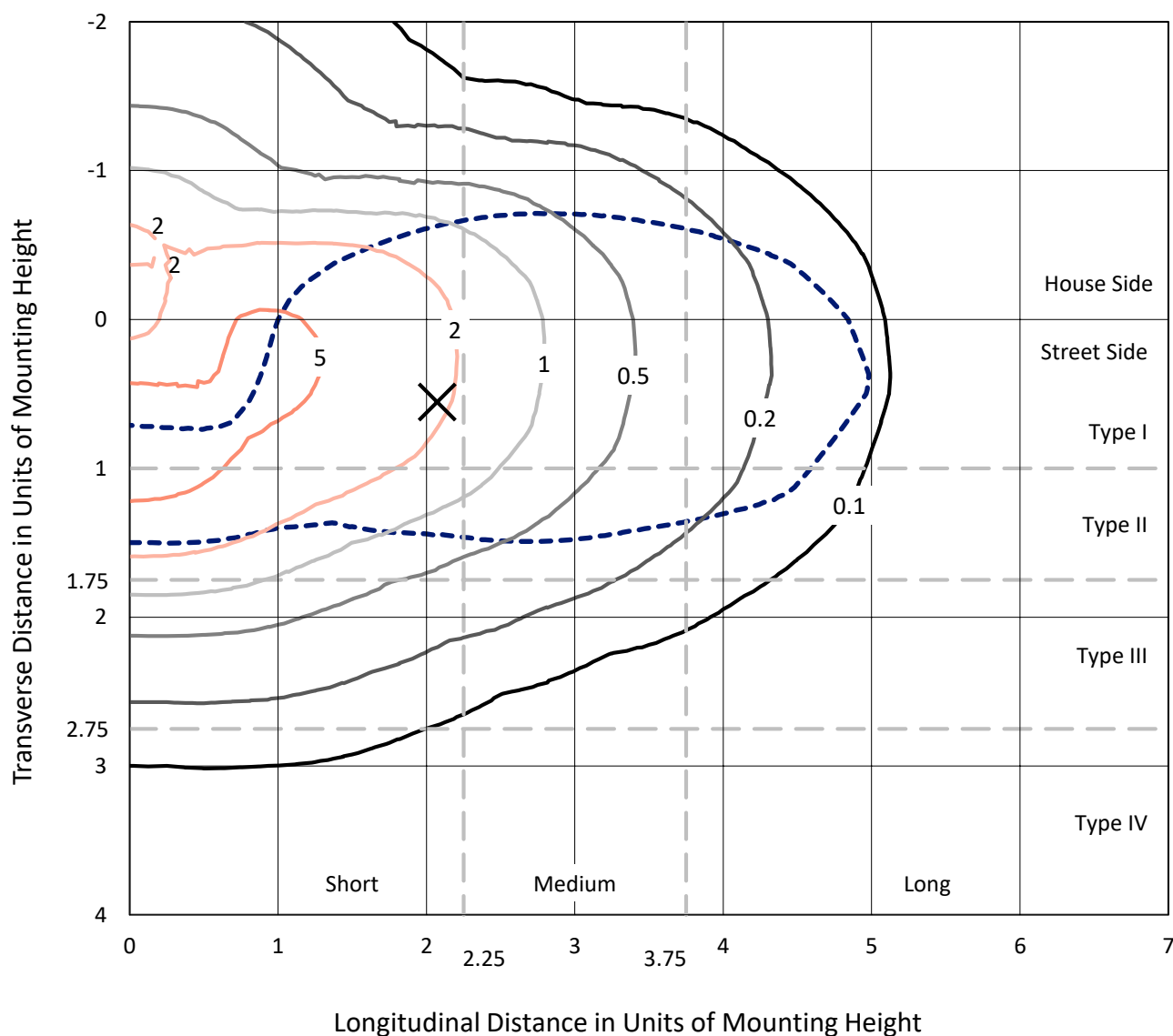
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

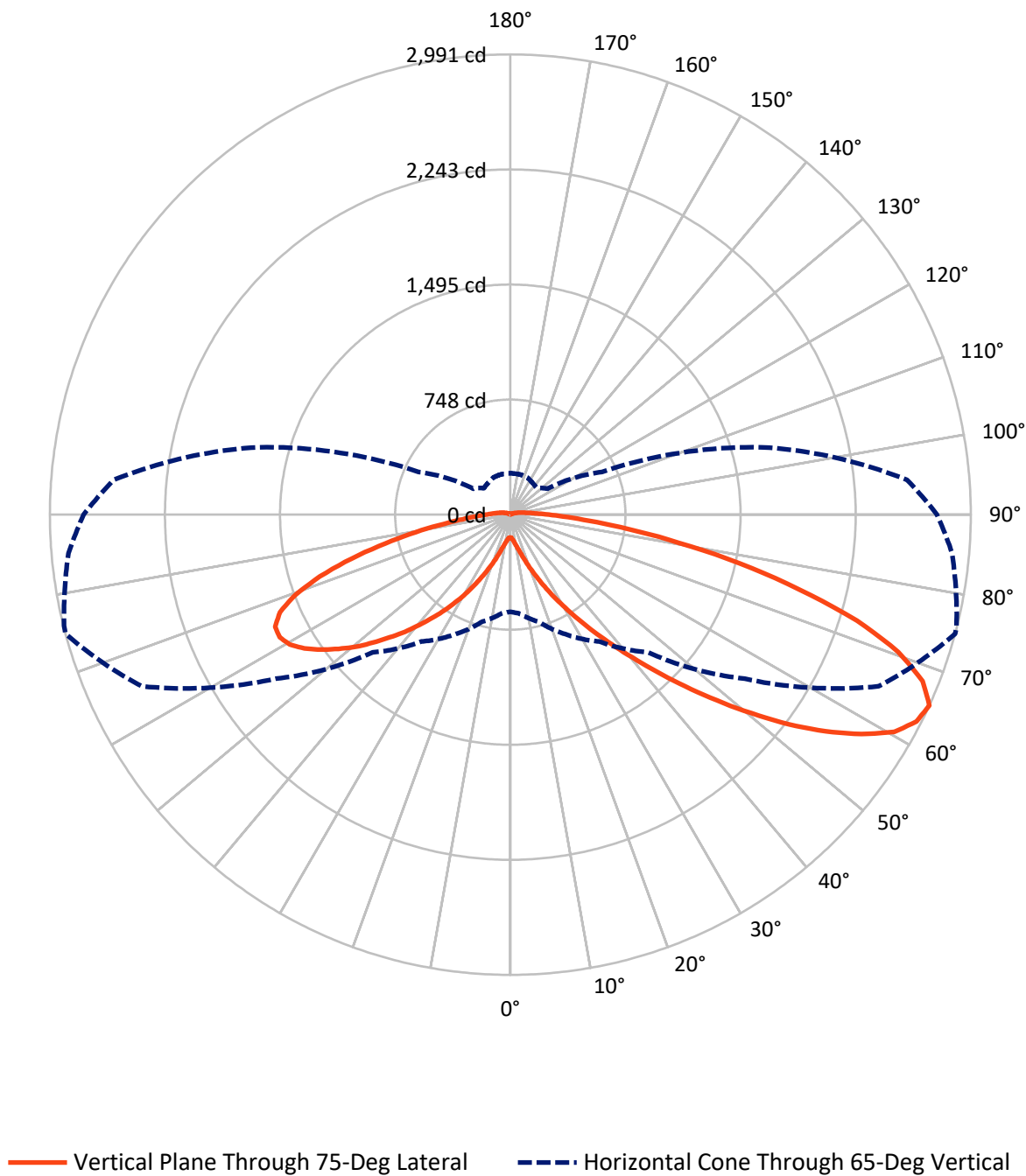


Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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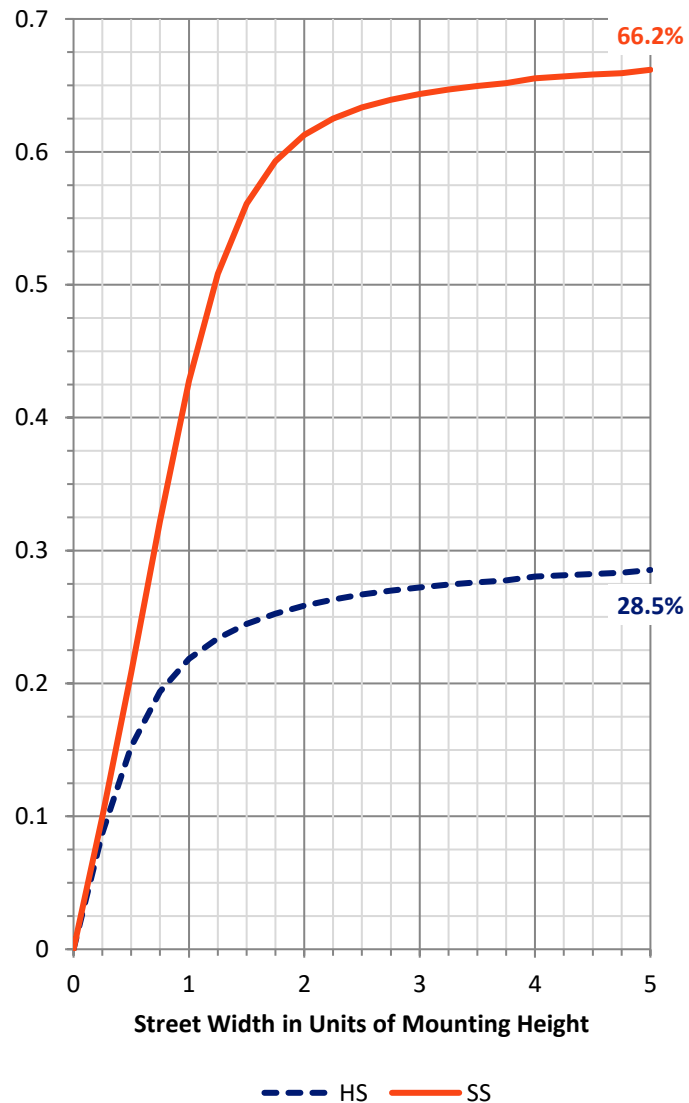
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1543.8	92.5	1636.3
	% Fixture	29.5	1.8	31.3
Street Side	Lumens	3508.7	83.3	3592.0
	% Fixture	67.1	1.6	68.7
Total	Lumens	5052.5	175.8	5228.3
	% Fixture	96.6	3.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.4	0.3
10°-20°	75.6	1.4
20°-30°	220.5	4.2
30°-40°	494.5	9.5
40°-50°	880.1	16.8
50°-60°	1195.9	22.9
60°-70°	1161.4	22.2
70°-80°	732.0	14.0
80°-90°	276.1	5.3
90°-100°	94.0	1.8
100°-110°	42.5	0.8
110°-120°	20.5	0.4
120°-130°	10.8	0.2
130°-140°	5.6	0.1
140°-150°	2.1	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5052.5	96.6
0°-180°	5228.3	100.0

Coefficient of Utilization



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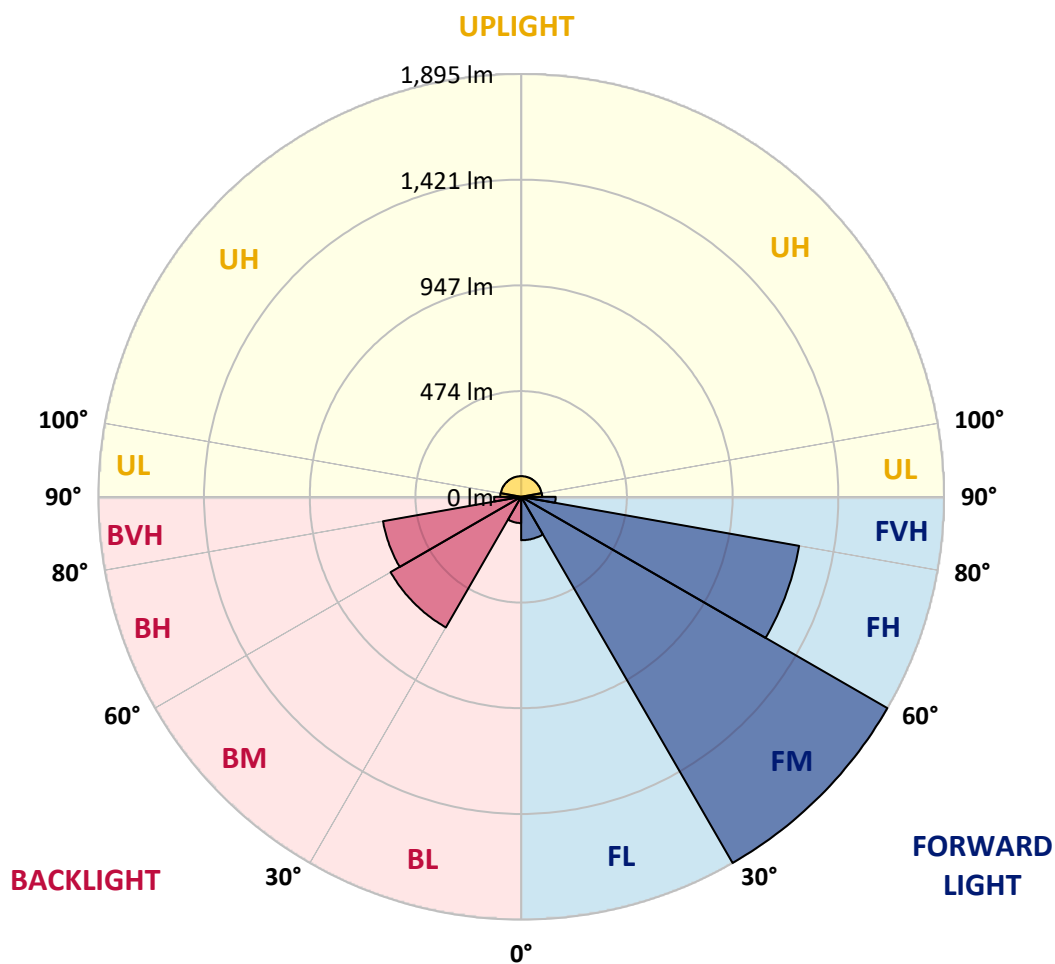
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	194.7	3.7			
FM	(30°-60°)	1894.8	36.2			
FH	(60°-80°)	1264.7	24.2			G1/1800
FVH	(80°-90°)	154.5	3.0			G2/225
BL	(0°-30°)	117.7	2.3	B1/500		
BM	(30°-60°)	675.8	12.9	B1/1000		
BH	(60°-80°)	628.7	12.0	B2/1000		G2/1000
BVH	(80°-90°)	121.6	2.3			G2/225
UL	(90°-100°)	94.0	1.8		U3/500	
UH	(100°-180°)	92.5	1.8		U3/500	

BUG Rating: B2-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6
2.5°	161.8	161.1	161.1	161.1	159.8	158.6	156.5	155.1	153.3	152.5	152.0
5°	178.8	178.8	178.1	177.4	176.2	172.8	169.6	166.9	163.8	163.0	160.4
7.5°	205.6	205.0	204.4	201.0	199.1	194.5	189.3	185.3	179.4	179.4	175.4
10°	240.9	239.7	237.7	234.4	227.2	221.3	215.5	208.2	202.4	201.7	195.8
12.5°	282.8	282.8	280.2	273.8	264.6	256.0	246.1	238.3	230.4	229.8	224.5
15°	340.5	341.1	332.6	322.9	309.7	296.6	284.1	276.9	267.9	269.9	262.6
17.5°	411.9	410.5	403.3	383.8	362.0	345.0	330.7	322.9	315.7	316.3	311.1
20°	501.6	500.3	487.8	461.5	426.2	400.7	383.8	378.5	374.6	372.5	367.3
22.5°	612.3	605.6	580.8	546.8	504.2	467.5	449.2	441.3	440.0	440.7	435.5
25°	736.0	733.3	701.9	647.6	592.6	545.5	517.3	515.9	518.0	514.6	514.6
27.5°	886.5	879.4	842.7	767.4	688.8	632.5	599.8	596.6	605.6	603.0	599.1
30°	1062.8	1051.6	1001.8	905.6	804.7	729.5	691.4	691.4	701.2	701.2	700.0
32.5°	1246.8	1244.8	1167.4	1054.9	935.8	836.2	803.4	798.2	808.0	813.2	806.7
35°	1453.6	1438.5	1349.6	1221.9	1067.9	958.6	918.0	925.3	933.1	933.8	923.3
37.5°	1664.5	1649.5	1547.3	1389.5	1210.0	1092.2	1050.3	1055.5	1067.9	1067.9	1054.3
40°	1845.2	1828.9	1728.7	1564.3	1367.2	1240.9	1196.4	1211.4	1219.9	1223.1	1200.9
42.5°	1987.9	1976.2	1886.5	1718.8	1518.5	1390.1	1361.3	1386.3	1394.7	1401.3	1369.1
45°	2067.9	2058.0	1995.9	1844.6	1645.5	1539.4	1544.6	1574.8	1591.2	1583.9	1549.2
47.5°	2080.3	2072.4	2037.7	1922.6	1762.0	1682.9	1732.7	1777.7	1802.7	1803.3	1744.4
50°	2003.0	2006.4	2007.0	1940.8	1827.5	1799.3	1908.1	2009.6	2028.6	2018.1	1948.7
52.5°	1853.1	1851.0	1889.0	1889.0	1839.3	1871.3	2055.4	2236.8	2263.0	2260.3	2164.0
55°	1630.5	1632.4	1703.1	1758.8	1777.1	1886.5	2175.9	2442.4	2485.6	2481.7	2375.6
57.5°	1353.4	1372.5	1459.6	1566.3	1649.5	1822.3	2231.6	2619.2	2690.0	2690.6	2562.2
60°	1084.3	1103.9	1205.4	1342.3	1462.8	1698.5	2194.2	2710.8	2866.0	2858.9	2722.7
62.5°	828.2	848.5	946.2	1102.0	1242.1	1500.8	2067.2	2729.9	2959.6	2955.2	2837.8
65°	630.6	643.6	722.2	859.0	1006.5	1264.5	1858.4	2639.5	2990.5	2987.1	2880.4
67.5°	471.4	477.4	552.0	662.7	790.4	1022.8	1569.6	2422.1	2888.3	2891.6	2831.9
70°	362.7	366.7	421.0	517.3	612.3	799.5	1271.6	2108.4	2673.5	2682.1	2680.2
72.5°	288.0	294.0	337.3	407.3	476.0	605.6	983.6	1705.7	2355.3	2373.1	2426.1
75°	237.7	244.2	276.9	328.7	378.5	461.0	715.1	1308.9	1936.2	1973.5	2091.4
77.5°	196.4	202.9	230.4	271.1	301.9	352.2	523.8	967.8	1521.1	1536.8	1692.6
80°	161.1	166.9	191.9	223.3	245.5	275.1	381.7	679.7	1109.2	1128.9	1280.9
82.5°	128.4	133.6	156.5	182.0	200.3	220.7	282.8	465.5	772.6	787.0	887.3
85°	98.9	104.2	123.7	146.1	161.8	178.1	216.8	324.1	511.3	528.5	601.8
87.5°	74.0	78.6	95.0	113.9	130.3	144.1	166.9	223.9	341.1	355.5	390.3
90°	54.3	57.6	72.0	86.4	101.5	116.6	131.0	163.8	227.2	233.1	257.4
92.5°	40.7	42.6	54.3	66.7	81.1	94.3	103.5	120.6	159.8	160.4	177.4
95°	30.2	32.1	42.0	52.5	64.8	77.3	85.1	93.7	117.1	119.1	129.6
97.5°	24.3	25.0	33.3	42.6	53.0	63.5	70.1	74.6	89.7	91.6	98.9
100°	20.3	20.9	28.1	36.0	45.2	54.3	58.8	60.8	70.7	72.8	78.0
102.5°	17.6	17.6	24.3	31.4	39.3	45.9	49.0	50.5	57.0	57.0	60.8
105°	15.7	15.7	20.9	27.5	34.0	40.0	42.0	42.0	44.6	45.2	47.2
107.5°	14.5	14.5	19.0	25.0	30.2	34.8	36.0	34.8	35.4	35.4	36.7
110°	13.0	13.0	16.3	22.3	26.9	30.2	30.8	29.5	27.5	27.5	28.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
112.5°	11.8	12.4	15.0	19.7	23.5	26.9	26.9	25.0	21.6	21.6	22.9
115°	11.0	11.0	13.7	17.6	20.9	23.5	23.5	20.9	17.6	17.0	18.3
117.5°	10.5	10.5	11.8	15.7	19.0	20.9	20.9	17.6	14.5	14.5	15.7
120°	9.8	9.8	11.0	14.5	17.0	19.0	18.3	15.7	12.4	12.4	13.7
122.5°	9.8	9.8	10.5	13.0	15.0	16.3	15.7	13.0	10.5	10.5	11.8
125°	9.2	9.2	9.8	11.8	13.7	15.0	13.7	11.0	9.8	9.8	10.5
127.5°	9.2	9.2	9.2	10.5	12.4	13.0	12.4	9.8	8.5	8.5	9.8
130°	8.5	8.5	9.2	9.8	11.0	11.8	10.5	8.5	7.8	7.8	9.2
132.5°	8.5	8.5	8.5	8.5	9.2	9.8	8.5	6.6	7.1	7.1	7.8
135°	7.8	7.8	7.8	7.8	8.5	8.5	7.1	5.8	6.6	6.6	7.1
137.5°	7.1	7.1	7.1	7.1	7.1	6.6	5.8	5.2	5.8	5.8	6.6
140°	6.6	6.6	6.6	5.8	5.2	5.2	4.6	4.0	4.6	4.6	5.2
142.5°	5.8	5.8	5.8	5.2	4.6	4.0	3.2	3.2	4.0	4.0	4.6
145°	5.2	5.2	4.6	4.0	3.2	2.6	1.9	2.6	3.2	3.2	4.0
147.5°	4.0	4.0	4.0	3.2	1.9	1.3	1.3	1.9	2.6	2.6	2.6
150°	3.2	3.2	3.2	2.6	1.3	0.7	0.7	1.3	1.3	1.3	1.9
152.5°	1.9	1.9	1.9	1.9	0.7	0.0	0.0	0.7	1.3	1.3	1.3
155°	1.3	1.3	1.3	0.7	0.7	0.0	0.0	0.7	0.7	0.7	0.7
157.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.7	0.7	0.7
160°	0.0	0.0	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.7	0.0
162.5°	0.0	0.0	0.0	0.7	0.7	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°	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6
2.5°	151.3	150.6	149.3	148.0	146.7	145.3	144.1	143.4	142.1	142.1	142.1
5°	159.1	157.2	154.5	152.0	149.3	147.3	145.3	143.4	142.1	141.5	140.8
7.5°	173.6	170.9	166.4	162.5	157.8	153.9	150.6	148.0	146.7	146.1	146.1
10°	193.1	189.9	184.1	176.2	170.9	165.0	159.8	156.5	153.9	153.3	152.5
12.5°	219.4	216.1	206.3	197.7	187.9	178.8	172.8	168.9	166.9	166.4	166.4
15°	256.6	252.8	237.1	222.6	206.9	195.8	187.9	184.6	185.3	187.2	185.3
17.5°	303.2	297.2	279.0	255.4	231.9	214.8	207.6	208.2	210.8	212.8	212.2
20°	360.8	352.2	326.8	293.3	261.2	238.3	231.1	231.9	235.0	240.9	240.2
22.5°	428.2	415.1	382.4	337.3	291.9	265.9	252.8	254.7	261.9	267.9	267.9
25°	502.2	490.5	443.9	383.8	327.4	288.7	272.4	275.1	285.5	291.9	294.0
27.5°	589.9	571.6	514.0	435.5	360.8	309.0	288.7	290.1	303.2	311.7	313.0
30°	683.6	662.1	589.9	487.2	390.3	324.7	298.5	301.2	315.7	325.5	327.4
32.5°	789.0	763.5	669.1	541.5	417.7	333.9	303.8	306.4	321.6	332.6	333.9
35°	906.2	868.9	754.3	591.3	436.0	337.3	303.8	307.1	321.6	332.6	334.6
37.5°	1025.4	983.6	837.5	639.1	447.3	334.6	299.2	303.2	316.3	326.8	328.7
40°	1164.3	1110.6	928.5	678.4	451.2	327.4	291.4	296.0	307.1	315.7	316.9
42.5°	1322.7	1246.8	1024.1	711.7	445.3	318.2	283.5	288.7	298.0	303.8	304.4
45°	1487.1	1395.3	1117.1	738.0	436.8	307.1	275.7	281.6	289.4	290.7	291.9
47.5°	1664.5	1562.3	1218.6	753.7	421.7	295.4	269.9	275.7	280.9	280.2	280.9
50°	1860.8	1735.3	1322.0	760.2	404.6	285.5	265.2	271.7	275.7	272.4	272.4
52.5°	2052.7	1924.4	1416.4	762.8	385.7	276.3	261.9	269.9	271.7	268.5	268.5
55°	2257.1	2099.2	1510.6	755.7	366.7	269.1	260.6	269.1	270.4	265.9	265.9
57.5°	2445.6	2285.8	1595.7	744.5	349.0	262.6	258.6	268.5	269.9	265.9	266.4
60°	2619.2	2444.4	1661.9	726.2	329.9	256.0	257.4	268.5	269.9	267.2	268.5
62.5°	2725.3	2549.1	1696.5	697.4	311.7	250.2	255.4	267.2	269.9	267.9	269.1
65°	2771.1	2586.5	1692.0	656.1	294.0	242.9	251.4	264.6	267.9	267.9	269.1
67.5°	2736.3	2552.4	1625.3	603.0	277.7	235.7	246.1	259.3	263.9	265.2	267.2
70°	2607.4	2411.6	1490.9	536.3	260.0	227.9	239.7	252.2	257.4	260.0	261.2
72.5°	2350.1	2175.2	1300.4	469.5	241.6	218.1	229.8	241.6	247.6	250.7	250.7
75°	2023.3	1848.5	1070.6	398.8	224.5	206.9	218.1	227.9	234.4	237.7	236.3
77.5°	1627.8	1464.7	831.7	326.8	206.3	193.9	204.4	212.8	218.1	220.7	217.4
80°	1206.2	1102.0	624.7	269.9	187.9	178.8	187.2	194.5	200.3	199.8	197.1
82.5°	855.1	756.9	437.5	223.9	169.6	162.5	168.9	173.6	177.4	176.2	171.5
85°	569.6	505.4	309.0	182.6	150.6	144.6	148.6	151.3	153.3	149.9	146.7
87.5°	370.6	329.9	222.6	150.6	130.3	126.4	128.4	128.9	129.6	126.4	122.4
90°	242.3	225.2	165.6	124.4	112.0	109.4	109.4	106.7	107.3	103.5	99.5
92.5°	170.9	160.4	128.9	102.1	95.6	93.7	93.0	89.7	89.0	85.1	82.6
95°	127.6	123.1	104.2	86.4	81.1	80.6	79.2	75.9	73.3	69.3	68.1
97.5°	99.5	97.6	85.8	74.0	70.1	68.8	68.1	64.1	62.3	58.3	57.0
100°	79.2	79.2	72.0	63.5	60.2	59.6	58.8	54.9	53.0	49.0	48.5
102.5°	63.5	64.1	60.2	54.9	52.5	51.1	49.8	47.2	43.8	41.2	41.2
105°	49.8	51.1	49.8	46.5	45.2	43.8	42.6	40.0	36.7	34.0	34.0
107.5°	39.3	40.7	40.7	40.0	38.0	37.3	36.7	33.3	30.8	28.1	28.1
110°	30.2	32.1	33.3	33.3	33.3	32.1	30.8	28.8	25.5	23.5	23.5



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CATALOG NUMBER: UTLD-AF24-60-D-U-T2U-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	24.3	25.5	27.5	28.1	28.1	28.1	26.9	23.5	20.9	19.7	20.3
115°	19.7	20.9	22.9	24.3	24.3	24.3	22.3	20.3	17.6	17.0	17.0
117.5°	16.3	17.6	19.0	20.9	20.9	20.9	19.7	17.0	14.5	14.5	14.5
120°	14.5	15.0	17.0	17.6	18.3	18.3	17.0	14.5	12.4	12.4	13.0
122.5°	12.4	13.0	14.5	15.7	16.3	15.7	14.5	11.8	10.5	11.0	11.0
125°	11.0	11.8	12.4	13.7	14.5	13.7	12.4	9.8	9.2	9.8	9.8
127.5°	10.5	10.5	11.0	11.8	12.4	11.8	10.5	8.5	7.8	9.2	9.2
130°	9.2	9.8	9.8	10.5	10.5	10.5	9.2	7.1	7.1	7.8	7.8
132.5°	8.5	8.5	8.5	9.2	9.2	8.5	7.1	5.8	6.6	7.1	7.1
135°	7.1	7.8	7.8	7.8	7.8	7.1	5.8	5.2	5.8	6.6	6.6
137.5°	6.6	6.6	6.6	6.6	6.6	5.8	5.2	4.6	5.2	5.2	5.2
140°	5.2	5.8	5.8	5.2	5.2	4.6	4.0	3.2	4.0	4.6	4.6
142.5°	4.6	4.6	4.6	4.6	4.0	3.2	2.6	2.6	3.2	3.2	3.2
145°	4.0	4.0	4.0	3.2	2.6	2.6	1.9	1.9	2.6	2.6	3.2
147.5°	2.6	2.6	2.6	2.6	1.9	1.9	1.3	1.3	1.9	1.9	1.9
150°	1.9	1.9	1.9	1.9	1.3	1.3	1.3	0.7	1.3	1.3	1.3
152.5°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	0.7
155°	0.7	0.7	1.3	1.3	0.7	0.7	0.7	0.0	0.0	0.0	0.0
157.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
160°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
162.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	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)