

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: P240205

Luminaire Tested: **UTLD-AF24-80-D-U-T4W-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-26)
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-T4W-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6520.6 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U4 - G4

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



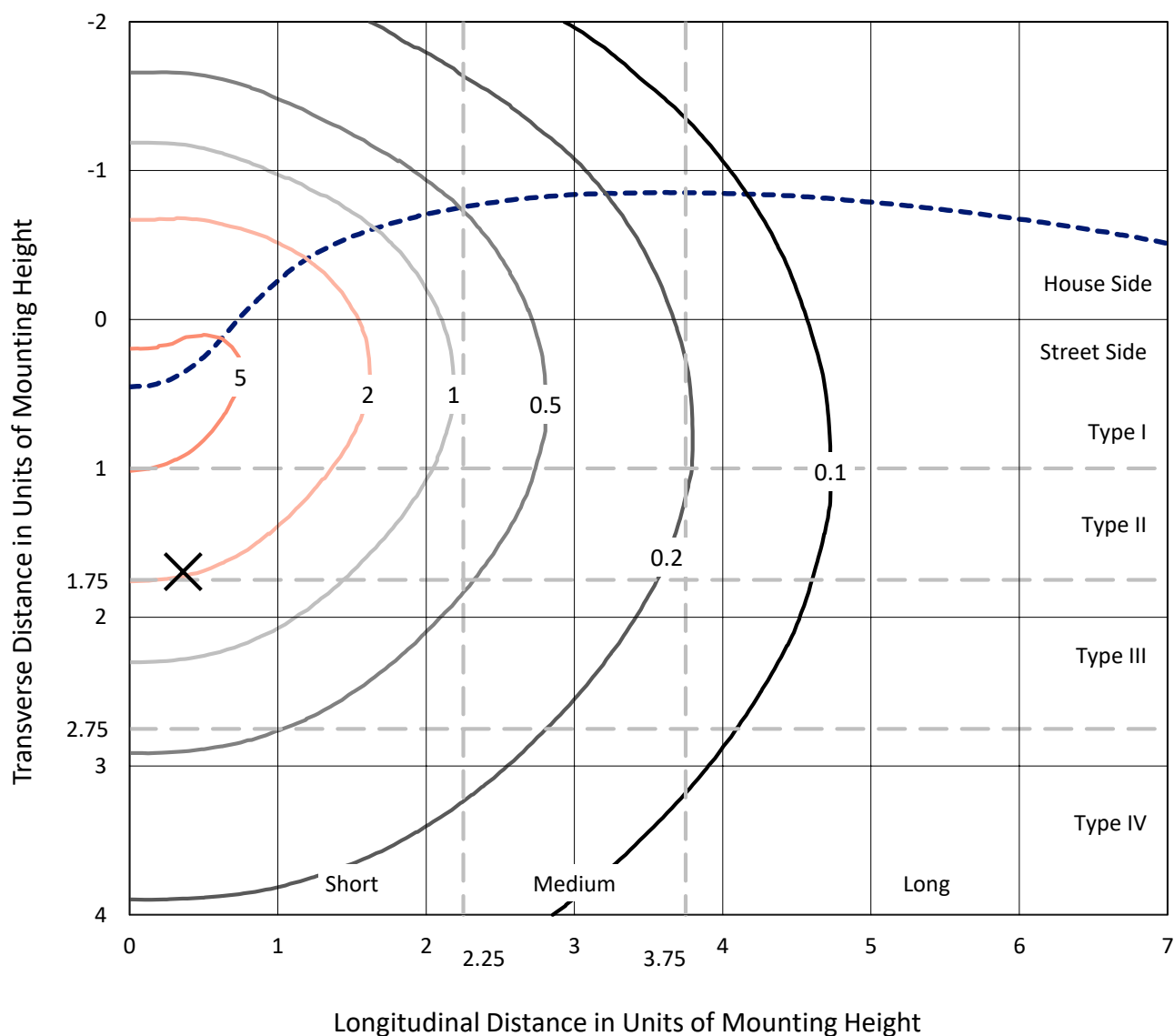
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

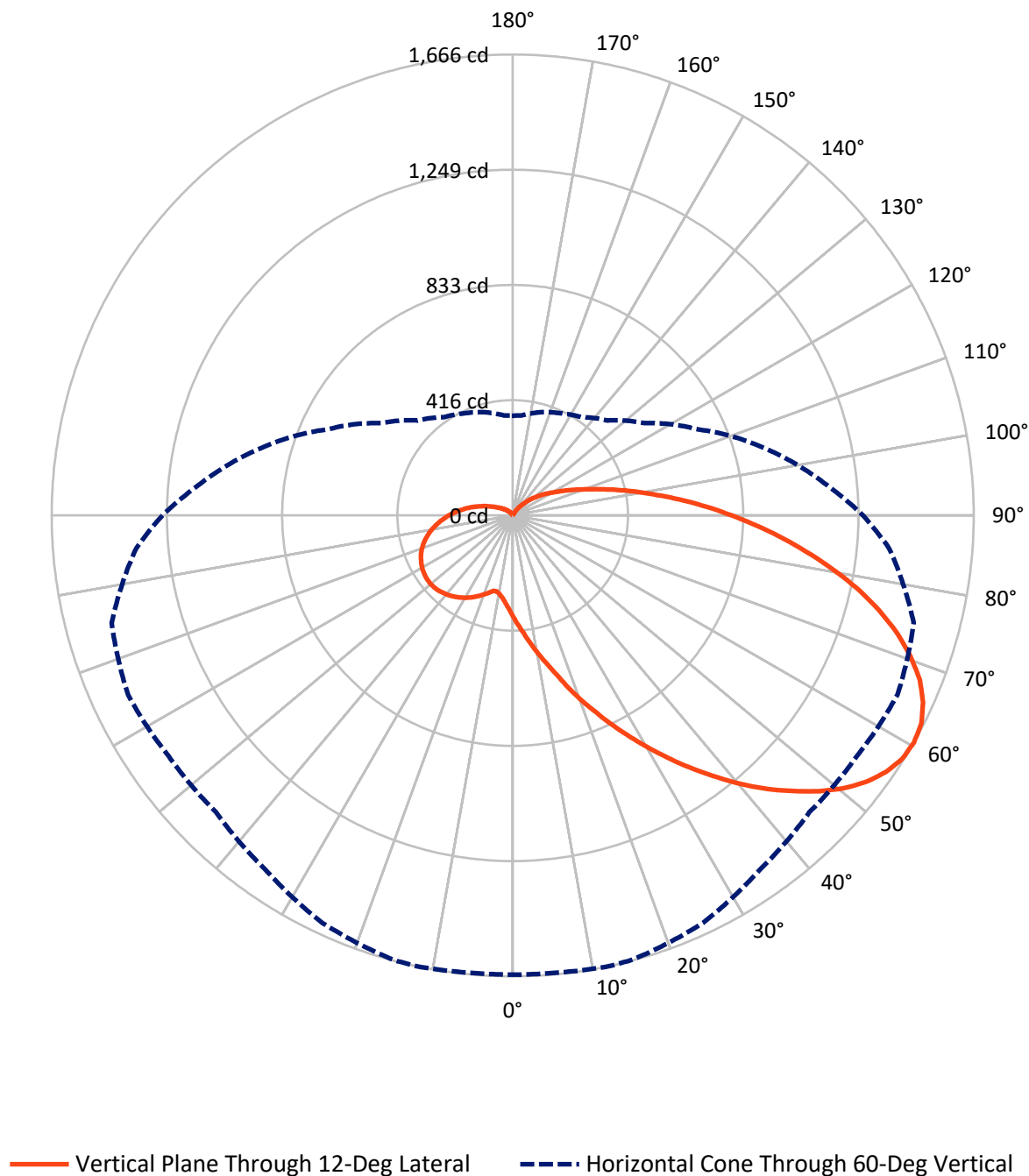


Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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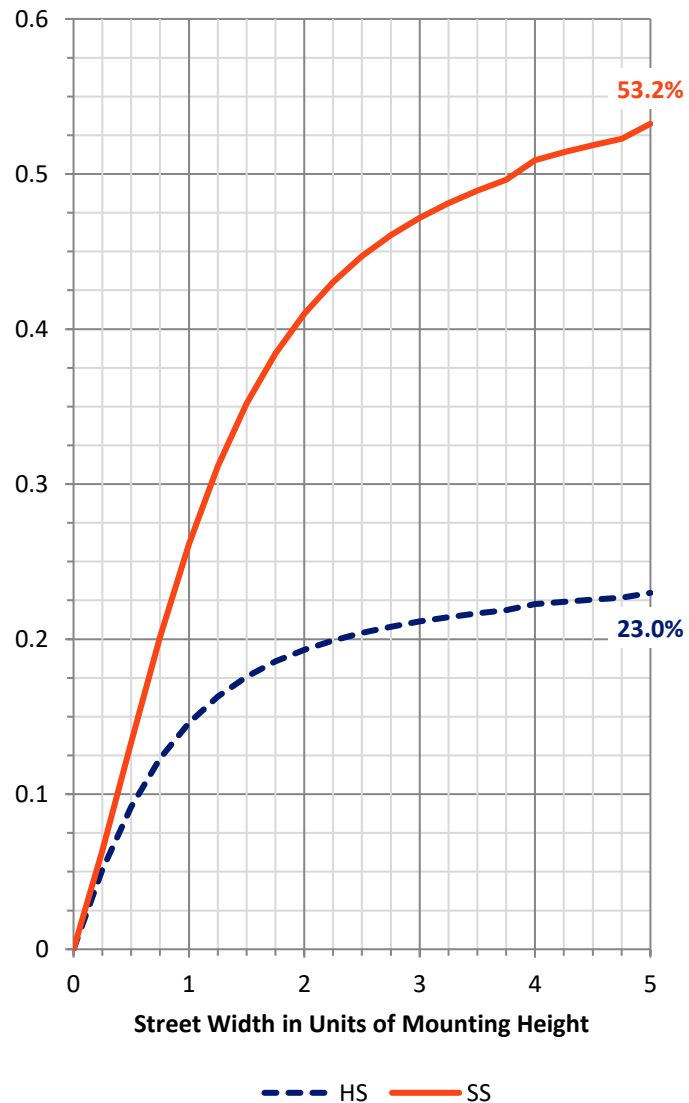
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1603.1	369.2	1972.3
	% Fixture	24.6	5.7	30.2
Street Side	Lumens	3783.2	765.1	4548.3
	% Fixture	58.0	11.7	69.8
Total	Lumens	5386.3	1134.3	6520.6
	% Fixture	82.6	17.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.5	0.6
10°-20°	127.9	2.0
20°-30°	274.3	4.2
30°-40°	480.1	7.4
40°-50°	723.1	11.1
50°-60°	944.0	14.5
60°-70°	1051.3	16.1
70°-80°	981.4	15.1
80°-90°	767.8	11.8
90°-100°	518.9	8.0
100°-110°	313.6	4.8
110°-120°	172.7	2.6
120°-130°	85.9	1.3
130°-140°	34.4	0.5
140°-150°	8.2	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5386.3	82.6
0°-180°	6520.6	100.0

Coefficient of Utilization



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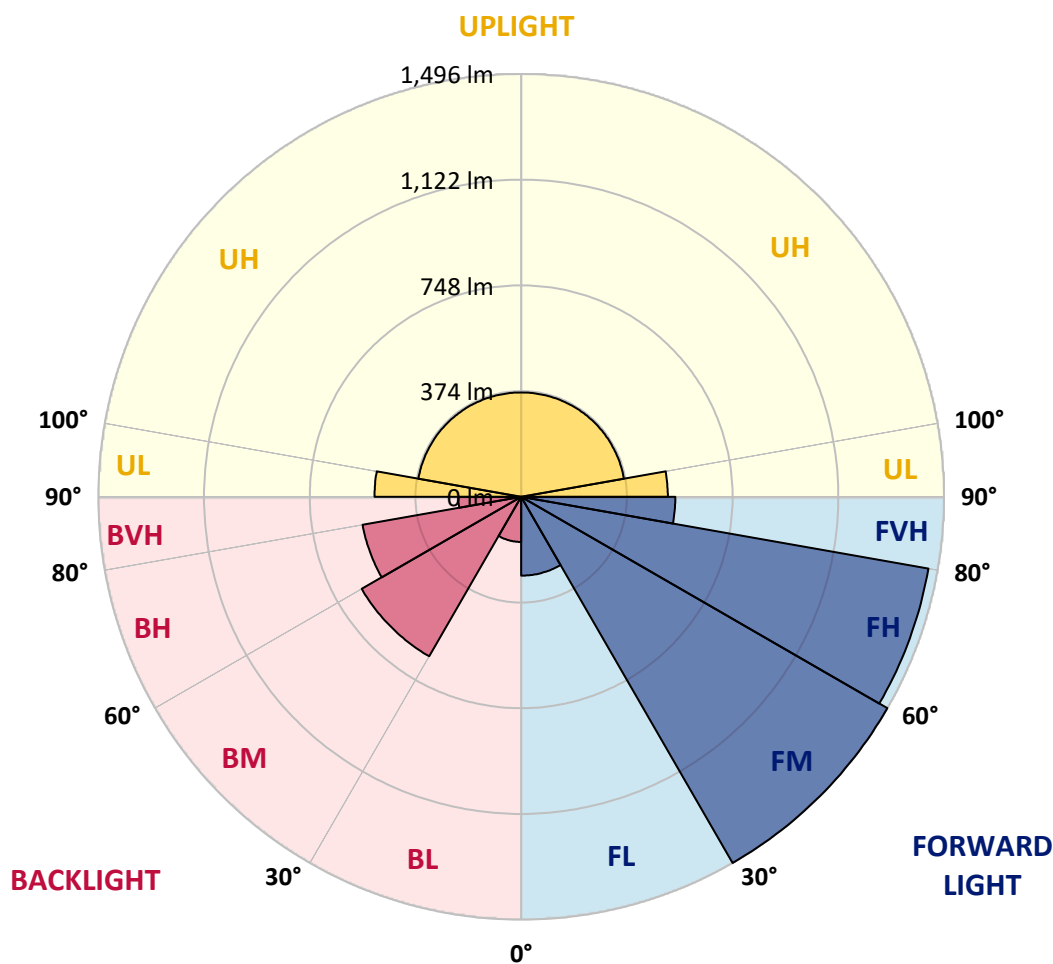
CATALOG NUMBER: UTLD-AF24-80-D-U-T4W-FP-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	278.9	4.3			
FM	(30°-60°)	1496.0	22.9			
FH	(60°-80°)	1463.1	22.4			G1/1800
FVH	(80°-90°)	545.2	8.4			G4/750
BL	(0°-30°)	159.7	2.4	B1/500		
BM	(30°-60°)	651.2	10.0	B1/1000		
BH	(60°-80°)	569.6	8.7	B2/1000		G2/1000
BVH	(80°-90°)	222.6	3.4			G2/225
UL	(90°-100°)	518.9	8.0		U4/1000	
UH	(100°-180°)	369.2	5.7		U3/500	

BUG Rating: B2-U4-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	367.6	367.6	367.6	367.6	367.6	367.6	367.6	367.6	367.6	367.6	367.6
2.5°	399.6	397.8	397.8	396.1	396.1	392.7	390.0	385.8	381.5	376.3	371.9
5°	431.5	431.5	429.7	429.7	426.3	420.2	414.2	406.5	398.7	390.0	379.6
7.5°	469.5	468.6	468.6	466.0	461.7	453.1	444.4	433.2	421.0	406.5	392.7
10°	508.3	507.4	507.4	504.8	499.7	489.3	476.4	463.4	447.9	428.9	409.9
12.5°	554.9	551.4	549.7	548.8	540.2	530.7	514.3	498.8	478.1	456.4	433.2
15°	604.1	603.2	597.9	595.5	586.8	572.2	556.5	537.7	516.9	492.8	464.3
17.5°	659.3	659.3	655.9	652.4	642.9	623.1	603.2	585.1	564.4	535.1	503.1
20°	718.8	718.8	714.5	709.3	697.3	680.0	660.2	638.6	613.6	581.6	542.8
22.5°	781.9	780.1	774.1	770.6	756.0	737.0	721.4	696.4	667.0	630.9	585.9
25°	848.3	845.6	839.6	836.2	818.9	804.2	786.1	756.8	723.2	681.8	631.6
27.5°	918.3	911.3	907.0	901.8	885.4	870.7	845.6	818.2	779.2	736.1	680.9
30°	985.5	982.9	977.8	970.8	956.1	938.9	911.3	881.0	843.2	795.6	734.3
32.5°	1062.3	1059.7	1051.1	1044.2	1025.2	1007.1	978.6	946.6	906.1	856.0	789.6
35°	1139.1	1135.6	1126.1	1118.4	1102.9	1076.1	1042.5	1012.3	971.7	920.7	849.2
37.5°	1218.5	1211.5	1201.2	1196.1	1177.0	1144.3	1108.9	1076.1	1038.9	987.2	909.6
40°	1293.5	1290.2	1278.0	1272.0	1251.2	1210.7	1172.0	1142.6	1108.9	1054.6	972.5
42.5°	1370.3	1364.3	1352.3	1346.2	1322.0	1275.5	1234.8	1207.4	1178.8	1125.3	1036.5
45°	1438.5	1436.0	1421.3	1417.8	1388.4	1338.4	1291.9	1267.6	1242.6	1191.7	1095.1
47.5°	1504.9	1498.9	1489.4	1485.2	1450.6	1393.7	1347.9	1327.2	1306.5	1259.9	1158.0
50°	1559.3	1558.5	1549.9	1544.7	1504.9	1442.9	1396.3	1379.8	1368.7	1323.7	1215.1
52.5°	1606.0	1605.1	1599.9	1594.7	1552.5	1487.8	1439.4	1427.4	1423.8	1382.4	1265.1
55°	1638.8	1637.9	1636.1	1631.0	1589.6	1523.1	1475.6	1466.1	1470.5	1431.7	1309.9
57.5°	1657.7	1656.9	1659.4	1655.2	1612.8	1547.3	1500.6	1498.1	1508.5	1473.1	1343.7
60°	1659.4	1659.4	1665.5	1662.9	1624.9	1560.2	1516.2	1517.1	1533.5	1499.8	1365.2
62.5°	1644.0	1644.0	1656.9	1654.3	1621.5	1559.3	1518.8	1525.7	1546.4	1514.5	1373.0
65°	1610.3	1614.7	1629.3	1629.3	1603.4	1547.3	1510.2	1520.6	1545.6	1513.6	1367.8
67.5°	1556.7	1565.3	1586.1	1587.9	1569.7	1520.6	1487.8	1502.5	1530.0	1496.5	1346.2
70°	1490.3	1502.5	1523.9	1530.0	1522.2	1481.7	1454.1	1471.2	1498.1	1464.4	1310.8
72.5°	1412.6	1423.8	1451.5	1458.4	1461.1	1429.0	1407.5	1428.2	1449.8	1413.5	1261.6
75°	1326.4	1335.8	1367.0	1373.8	1385.1	1367.0	1353.0	1369.4	1393.7	1348.8	1198.7
77.5°	1221.9	1238.4	1272.9	1280.6	1302.2	1293.5	1283.2	1303.0	1321.2	1273.8	1125.3
80°	1121.0	1141.6	1170.1	1185.7	1211.5	1210.7	1212.4	1225.4	1240.9	1189.2	1045.9
82.5°	1018.3	1032.9	1066.6	1081.2	1121.0	1130.5	1130.5	1147.8	1152.9	1095.1	960.5
85°	914.7	932.0	965.7	980.3	1023.4	1044.2	1050.2	1058.8	1059.7	999.2	872.4
87.5°	823.3	833.6	865.6	883.7	930.3	954.4	962.2	972.5	965.7	906.1	781.9
90°	731.8	741.4	772.4	787.0	837.9	866.4	883.7	888.0	874.2	811.1	699.0
92.5°	646.4	655.9	685.2	702.4	752.5	782.8	799.1	802.5	787.0	723.2	618.7
95°	571.3	571.3	603.2	616.1	672.3	706.0	721.4	721.4	699.8	636.9	541.9
97.5°	500.5	502.3	527.2	543.7	595.5	630.9	647.3	648.1	617.9	558.4	477.3
100°	436.6	439.2	462.5	477.3	527.2	564.4	579.1	576.5	545.4	484.1	412.5
102.5°	384.0	384.0	403.8	415.9	463.4	500.5	514.3	509.1	477.3	418.6	359.9
105°	336.5	338.2	351.3	363.3	408.2	442.7	456.4	448.7	415.9	359.0	314.1
107.5°	298.6	297.7	306.4	315.0	357.3	390.0	402.2	392.7	358.2	307.2	272.7
110°	260.6	261.4	268.3	274.5	313.2	344.2	352.9	345.2	306.4	261.4	236.4



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CATALOG NUMBER: UTLD-AF24-80-D-U-T4W-FP-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	230.4	230.4	235.6	240.8	268.3	298.6	308.9	297.7	260.6	221.8	206.3
115°	204.6	205.4	207.1	209.7	233.0	260.6	269.3	255.4	219.2	189.9	179.5
117.5°	182.1	182.1	182.9	185.5	200.2	225.2	231.3	216.6	185.5	162.2	157.9
120°	163.2	162.2	161.3	162.2	172.6	190.7	196.7	182.1	154.5	140.6	137.2
122.5°	145.0	145.0	143.2	144.1	146.7	160.5	164.9	151.0	130.3	121.8	120.8
125°	127.8	127.8	125.9	125.1	124.2	131.2	132.9	122.6	107.8	105.3	104.5
127.5°	111.3	112.2	109.6	108.7	105.3	106.1	107.0	97.5	88.9	89.7	90.5
130°	97.5	97.5	94.9	93.2	88.1	83.7	82.0	75.9	72.4	75.9	78.5
132.5°	84.5	82.8	81.1	79.4	71.7	65.5	62.2	57.0	58.7	63.8	66.4
135°	70.8	69.9	67.3	66.4	58.7	49.1	43.1	41.4	46.7	52.7	54.4
137.5°	57.8	57.8	55.1	53.5	44.9	35.4	29.4	29.4	35.4	41.4	44.9
140°	45.8	45.8	43.1	41.4	33.7	24.1	18.1	19.0	25.9	31.9	34.5
142.5°	34.5	34.5	31.9	31.0	24.1	15.6	10.4	12.1	18.1	23.3	25.9
145°	25.0	24.1	22.4	21.6	15.6	9.5	5.1	6.9	11.3	15.6	18.1
147.5°	16.4	16.4	14.6	13.7	9.5	5.1	1.7	3.5	6.9	9.5	12.1
150°	9.5	9.5	8.6	7.7	5.1	1.7	0.0	1.7	3.5	5.1	6.9
152.5°	5.1	5.1	4.3	4.3	1.7	0.9	0.0	0.0	0.9	2.6	2.6
155°	1.7	1.7	1.7	1.7	0.9	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	0.9
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°	367.6	367.6	367.6	367.6	367.6	367.6	367.6	367.6	367.6	367.6	367.6
2.5°	369.3	366.8	361.5	357.3	352.9	347.8	345.2	342.6	340.9	339.1	339.1
5°	374.5	369.3	359.9	350.4	341.8	334.0	327.0	321.9	319.2	317.6	316.8
7.5°	385.8	377.9	362.4	347.8	334.9	322.8	313.2	305.5	301.1	298.6	297.7
10°	400.4	389.2	369.3	349.5	332.2	316.8	303.7	294.2	288.2	285.6	284.0
12.5°	420.2	406.5	380.6	355.5	333.1	314.1	297.7	287.4	281.4	277.8	277.8
15°	450.4	432.3	400.4	366.8	339.1	315.9	297.7	286.5	282.2	280.5	279.6
17.5°	485.0	464.3	425.4	386.6	351.3	321.9	305.5	298.6	292.5	290.0	290.0
20°	523.0	497.9	453.1	409.0	369.3	339.1	321.0	309.8	302.8	300.4	299.5
22.5°	560.9	535.1	482.4	432.3	388.3	361.5	335.7	321.9	313.2	309.8	308.9
25°	604.1	575.6	513.4	457.4	415.0	384.9	354.6	334.9	323.6	319.2	318.4
27.5°	650.6	617.0	547.9	484.1	441.0	405.6	371.9	345.2	334.0	328.8	327.9
30°	699.0	661.9	582.5	511.8	466.0	423.7	388.3	358.2	343.4	337.4	336.5
32.5°	749.9	706.0	619.6	544.5	489.3	440.1	402.2	370.2	352.1	345.2	345.2
35°	806.9	756.0	655.9	574.7	510.9	456.4	414.2	381.5	359.9	352.9	352.9
37.5°	861.2	806.0	694.7	607.5	530.7	469.5	423.7	391.8	367.6	359.0	359.0
40°	919.1	856.0	731.8	634.2	547.9	479.7	432.3	399.6	373.6	365.9	364.2
42.5°	975.1	906.1	771.5	661.9	562.6	488.4	439.2	406.5	378.8	369.3	368.5
45°	1033.8	956.1	809.5	684.3	574.7	494.5	442.7	410.9	384.9	372.8	371.1
47.5°	1084.7	1003.6	846.5	704.1	584.2	497.9	445.2	414.2	388.3	374.5	372.8
50°	1135.6	1045.9	877.6	720.6	589.4	499.7	446.1	415.0	390.9	374.5	372.8
52.5°	1181.4	1085.6	904.3	731.8	591.9	498.8	445.2	415.0	391.8	372.8	371.1
55°	1219.4	1117.5	923.4	738.7	591.9	496.1	442.7	413.3	390.9	371.1	368.5
57.5°	1247.8	1139.1	936.4	740.4	587.7	491.0	438.3	410.9	388.3	367.6	364.2
60°	1265.1	1151.1	940.6	736.1	580.8	485.0	433.2	407.3	385.8	362.4	359.9
62.5°	1270.2	1152.9	936.4	727.4	571.3	476.4	425.4	401.3	380.6	356.4	353.8
65°	1261.6	1143.4	924.3	713.7	558.4	466.0	417.7	394.3	374.5	349.5	346.9
67.5°	1238.4	1122.7	902.7	694.7	543.7	453.9	409.0	386.6	367.6	341.8	336.5
70°	1203.8	1091.6	875.0	671.4	526.4	441.0	398.7	377.2	358.2	333.1	327.9
72.5°	1153.8	1049.3	838.8	642.9	506.5	427.2	385.8	365.9	347.8	322.8	315.9
75°	1093.3	995.1	795.6	613.6	485.8	410.9	372.8	353.8	335.7	310.7	304.7
77.5°	1026.1	938.0	749.1	579.9	461.7	394.3	359.0	340.9	321.9	297.7	289.1
80°	952.7	871.6	698.1	545.4	439.2	376.3	343.4	326.2	307.2	284.0	274.5
82.5°	873.3	802.5	647.3	510.9	414.2	358.2	327.9	310.7	290.8	268.3	258.8
85°	795.6	731.8	593.8	473.7	390.0	339.1	310.7	293.4	275.4	252.0	243.3
87.5°	715.4	660.2	541.1	437.5	365.9	321.0	294.2	276.1	257.2	235.6	228.7
90°	645.5	592.8	491.8	402.9	340.9	301.1	277.0	258.1	240.0	219.2	213.2
92.5°	571.3	528.2	443.6	370.2	317.6	282.2	259.7	241.7	221.8	201.9	197.6
95°	507.4	472.0	399.6	337.4	292.5	264.1	242.4	223.6	203.7	184.6	182.1
97.5°	446.1	416.9	356.4	307.2	271.0	245.1	224.4	206.3	185.5	168.3	166.5
100°	391.8	365.9	317.6	279.6	247.7	226.9	207.9	189.0	168.3	151.9	151.9
102.5°	341.8	321.9	283.1	251.1	226.9	207.1	189.9	170.9	150.1	136.3	137.2
105°	301.1	282.2	250.2	226.0	206.3	188.2	171.7	152.8	132.9	121.8	122.6
107.5°	262.3	247.7	221.8	201.0	185.5	170.9	153.6	135.5	115.6	108.7	109.6
110°	228.7	217.4	196.7	179.5	167.3	153.6	138.1	119.1	100.9	96.7	96.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	199.3	189.9	174.3	160.5	148.4	137.2	120.8	103.6	86.4	84.5	84.5
115°	174.3	167.3	152.8	141.5	132.9	121.8	107.0	88.9	75.1	74.2	75.1
117.5°	152.8	146.7	134.6	125.1	117.4	107.0	93.2	75.9	63.8	64.7	65.5
120°	133.8	129.5	119.1	111.3	103.6	94.1	79.4	63.8	56.0	57.0	57.0
122.5°	118.2	113.9	105.3	97.5	90.5	81.1	68.2	53.5	48.3	50.0	50.0
125°	102.7	100.1	91.4	84.5	77.7	68.2	56.0	44.0	41.4	43.1	43.1
127.5°	88.9	87.2	80.3	72.4	65.5	57.0	45.8	36.3	35.4	37.1	37.1
130°	76.8	75.1	69.1	62.2	54.4	46.7	35.4	29.4	30.1	31.9	32.8
132.5°	65.5	64.7	58.7	51.0	44.0	36.3	27.7	24.1	25.9	27.7	27.7
135°	54.4	53.5	49.1	42.3	34.5	27.7	20.8	19.0	21.6	23.3	23.3
137.5°	44.9	43.1	39.7	32.8	25.9	19.8	14.6	15.6	17.3	19.0	19.0
140°	35.4	34.5	31.0	25.0	18.1	12.9	10.4	12.1	14.6	15.6	15.6
142.5°	25.9	25.9	22.4	17.3	11.3	7.7	6.9	8.6	11.3	12.1	12.1
145°	18.1	18.1	15.6	11.3	6.9	3.5	3.5	6.0	7.7	8.6	9.5
147.5°	12.1	11.3	9.5	6.9	3.5	0.9	1.7	4.3	5.1	6.0	6.0
150°	6.9	6.9	5.1	3.5	1.7	0.0	0.9	1.7	2.6	3.5	4.3
152.5°	2.6	2.6	1.7	0.9	0.9	0.0	0.0	0.0	0.9	1.7	1.7
155°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.0	0.9	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

(END OF REPORT)