

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: P266432

Luminaire Tested: **UTLD-AF24-70-D-U-SL3-7027-HSS**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-41-U0)
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-SL3-7027-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN
UPPER HEMISPHERE NOT REPORTED.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5135.1 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

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

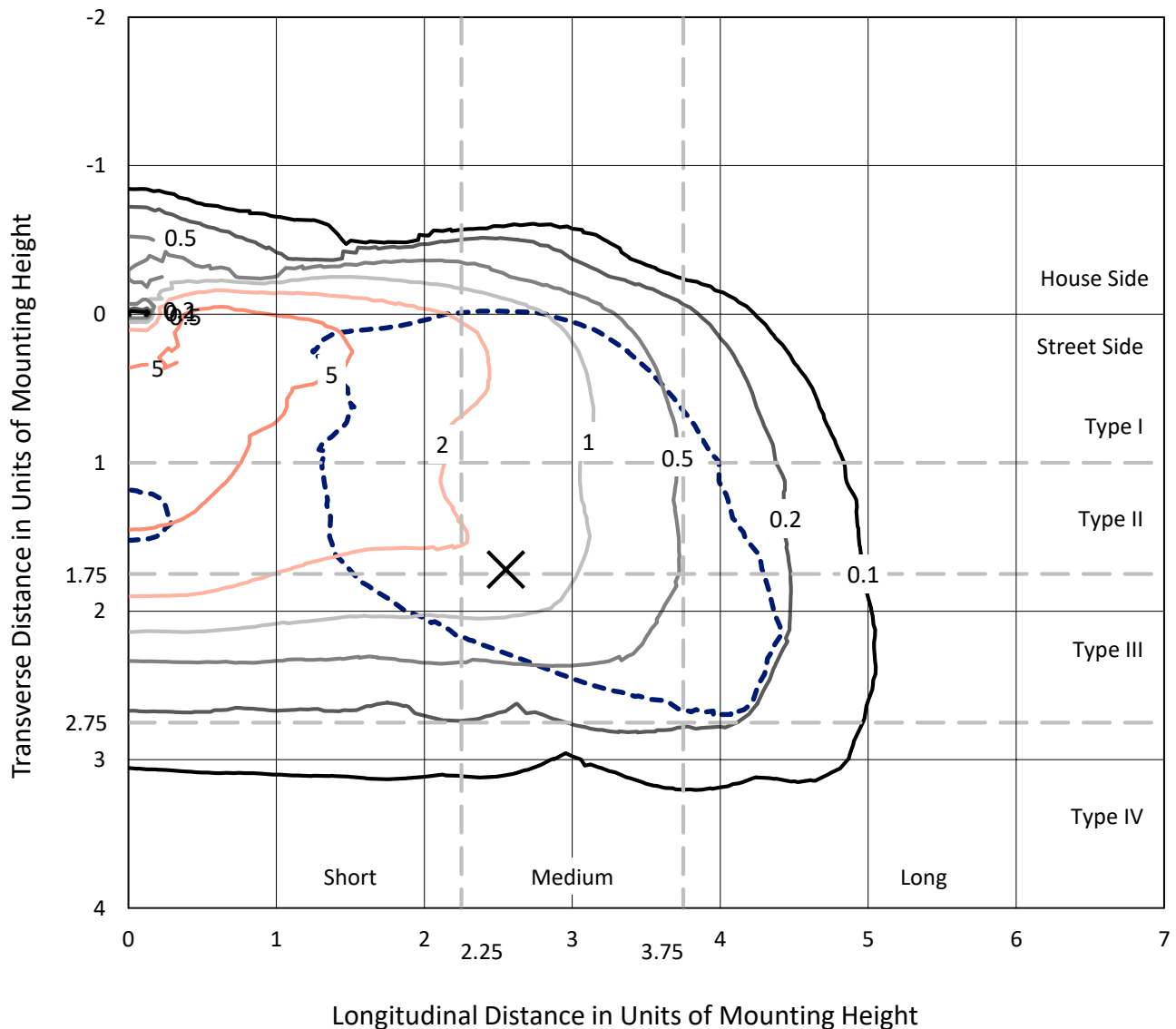


REPORT NUMBER: P266432

CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-7027-HSS

Iso-Footcandle Lines of Horizontal Illumination

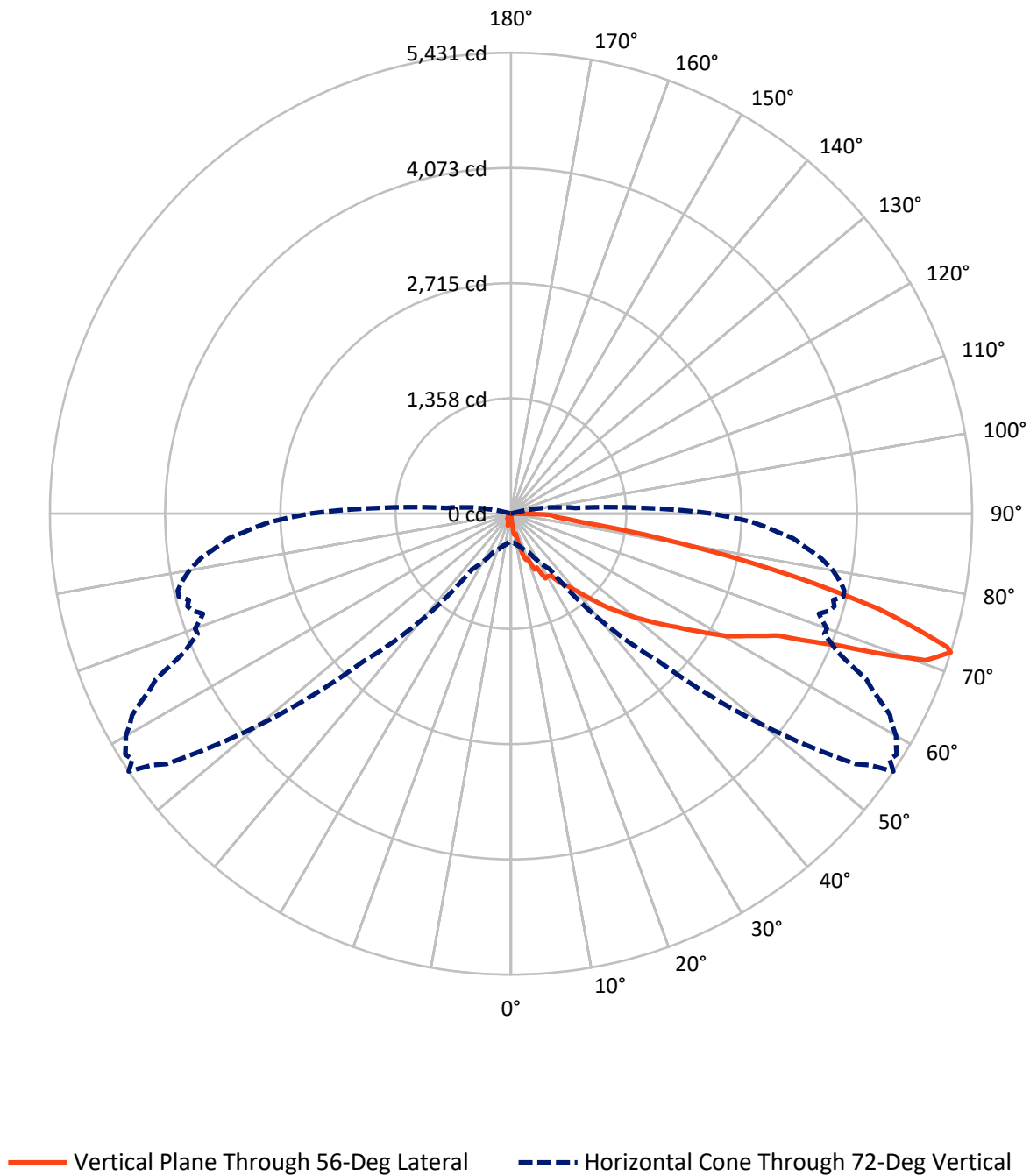
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REPORT NUMBER: P266432

CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-7027-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P266432

CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-7027-HSS

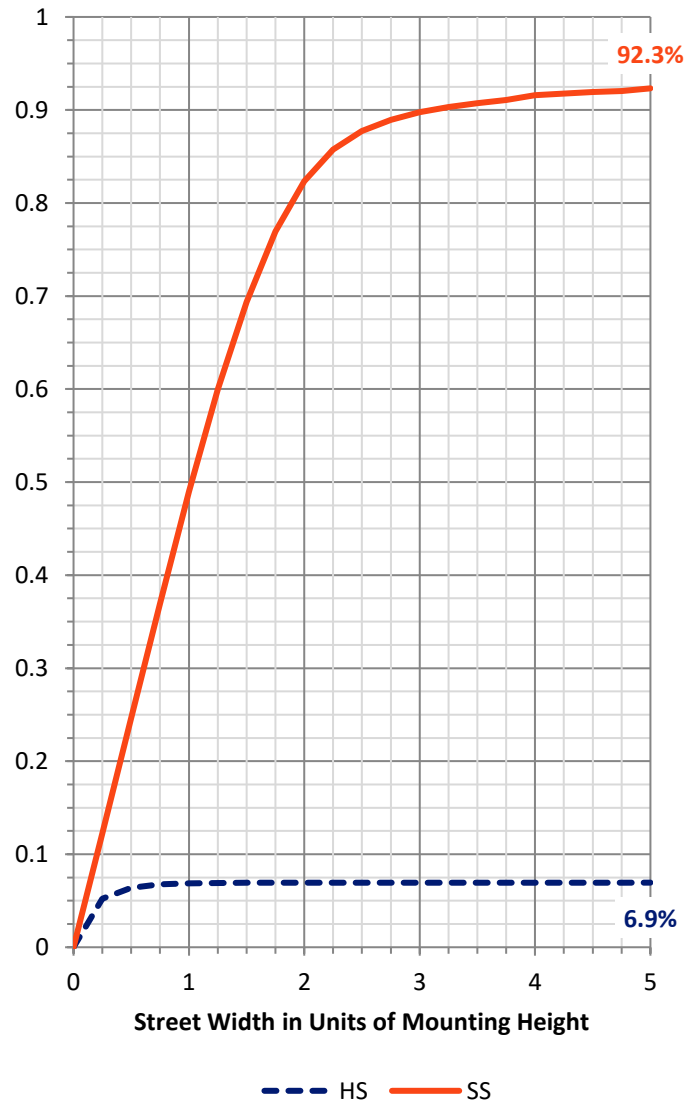
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	359.5	0.0	359.5
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	4775.7	0.0	4775.7
	% Fixture	93.0	0.0	93.0
Total	Lumens	5135.1	0.0	5135.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.2
10°-20°	82.8	1.6
20°-30°	229.3	4.5
30°-40°	445.0	8.7
40°-50°	761.3	14.8
50°-60°	1175.3	22.9
60°-70°	1356.8	26.4
70°-80°	955.1	18.6
80°-90°	121.1	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5135.1	100.0
0°-180°	5135.1	100.0

Coefficient of Utilization



REPORT NUMBER: P266432

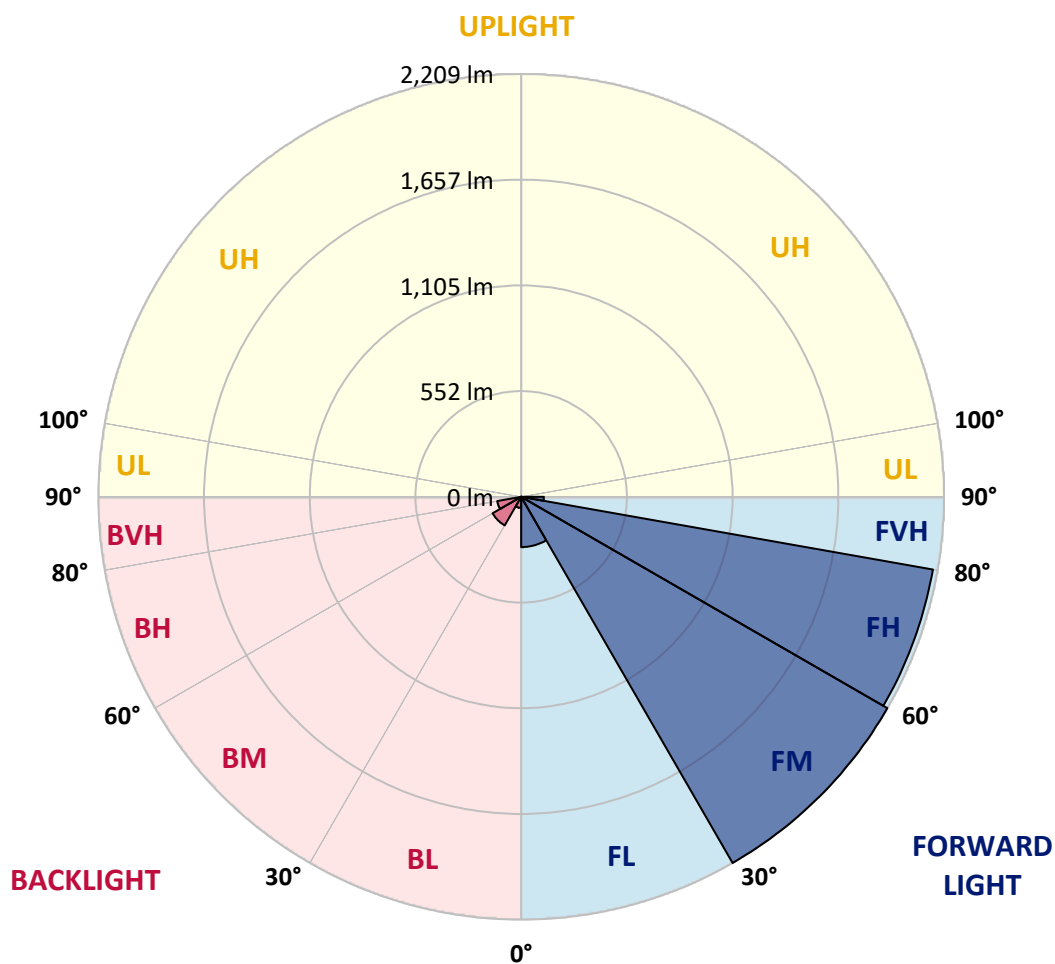
CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-7027-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	262.7	5.1			
FM	(30°-60°)	2209.3	43.0			
FH	(60°-80°)	2184.8	42.5			G2/5000
FVH	(80°-90°)	118.8	2.3			G2/225
BL	(0°-30°)	57.9	1.1	B0/110		
BM	(30°-60°)	172.2	3.4	B0/220		
BH	(60°-80°)	127.2	2.5	B1/500		G1/500
BVH	(80°-90°)	2.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





REPORT NUMBER: P266432

CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-7027-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	56°	57°	58°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	22.7	22.7	22.1	17.6	8.9	2.2	0.0	0.0	0.0	0.0	0.0
5°	253.7	253.7	253.0	255.8	255.2	250.0	31.6	28.7	27.2	25.7	24.3
7.5°	240.4	240.4	241.1	241.1	244.9	247.0	250.7	250.0	250.0	249.3	248.6
10°	463.3	464.8	464.1	263.3	245.5	238.9	242.0	243.4	244.1	244.1	244.1
12.5°	441.2	441.2	443.5	450.8	458.1	255.8	240.4	241.1	244.9	245.5	248.6
15°	455.3	451.5	440.4	432.4	440.4	404.4	476.6	478.0	476.6	472.1	466.9
17.5°	597.2	599.3	607.4	595.7	441.2	590.5	615.5	586.1	571.4	562.6	486.8
20°	582.5	582.5	584.5	592.0	693.4	571.4	589.0	567.0	569.2	549.4	560.4
22.5°	768.5	767.7	766.3	597.2	672.1	647.9	716.9	705.2	711.8	718.5	724.4
25°	790.5	786.8	775.1	718.5	664.0	746.4	706.6	695.6	703.7	702.2	724.4
27.5°	1060.4	1050.1	943.5	778.0	747.8	731.0	736.2	848.5	863.4	875.0	883.9
30°	1206.0	1172.8	1080.2	981.7	811.1	790.5	837.6	853.0	854.5	877.3	913.3
32.5°	1613.4	1559.6	1343.5	1073.7	944.2	886.8	847.1	858.9	872.2	950.0	992.0
35°	1716.3	1662.7	1502.3	1305.2	1038.4	945.6	989.8	992.7	1000.2	1042.0	1017.1
37.5°	1721.5	1709.7	1633.9	1447.2	1221.4	1078.1	1067.7	1064.0	1081.0	1099.3	1075.1
40°	1751.7	1757.5	1806.0	1621.5	1369.2	1214.8	1181.0	1165.6	1203.8	1185.5	1185.5
42.5°	1884.7	1892.8	1977.3	1796.5	1537.7	1375.1	1344.3	1331.0	1365.6	1314.1	1353.0
45°	2171.6	2168.6	2198.1	1952.3	1719.3	1532.5	1536.9	1536.9	1559.6	1506.7	1549.3
47.5°	2507.6	2486.2	2408.4	2084.0	1892.8	1686.8	1720.1	1740.6	1736.2	1711.2	1741.4
50°	2748.1	2714.9	2563.5	2228.2	2032.5	1847.3	1920.0	1964.1	1934.1	1954.6	1936.1
52.5°	2801.8	2771.6	2634.1	2320.1	2150.9	2025.9	2146.5	2209.0	2138.4	2198.1	2129.6
55°	2755.5	2743.7	2650.2	2354.6	2234.1	2182.5	2371.5	2452.5	2357.6	2437.7	2334.1
57.5°	2656.1	2651.0	2629.7	2394.3	2301.6	2326.7	2606.8	2691.4	2625.2	2681.1	2603.8
60°	2396.6	2421.6	2495.9	2399.6	2393.7	2476.0	2859.8	2933.3	2927.4	2930.5	2881.1
62.5°	1927.4	1942.9	2153.1	2262.7	2445.8	2659.1	3086.2	3106.9	3169.4	3115.1	3119.5
65°	1300.8	1294.3	1593.6	1928.1	2359.8	2910.6	3424.6	3389.2	3460.6	3337.1	3318.7
67.5°	623.7	669.1	877.3	1328.1	2076.6	3064.3	4147.5	4051.0	4136.4	3874.6	3787.9
70°	416.3	422.8	474.3	689.0	1422.1	2963.5	4904.1	4941.7	5175.4	4891.6	4823.2
72°	328.7	342.0	397.8	506.6	800.1	2459.7	5016.7	5163.6	5430.7	5317.3	5356.4
72.5°	291.9	313.2	380.9	489.8	725.0	2295.1	4949.8	5125.5	5373.3	5287.2	5335.8
75°	155.9	175.0	273.5	419.9	598.6	1090.5	3970.1	4334.2	4467.4	4501.1	4523.2
77.5°	46.4	48.5	76.4	322.1	519.8	601.5	2492.2	2946.6	3122.4	3207.7	3249.6
80°	33.9	34.6	43.4	105.9	450.8	573.6	1177.3	1570.7	1800.9	1893.5	1992.8
82.5°	22.7	22.1	28.7	55.2	173.6	559.6	587.5	727.3	841.3	966.9	1001.6
85°	13.2	11.8	17.6	41.2	61.1	464.1	550.8	550.8	539.7	544.9	532.3
87.5°	8.9	8.9	11.0	29.5	30.9	308.1	408.1	455.9	473.5	452.9	425.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P266432

CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-7027-HSS

CANDELA DISTRIBUTION (continued):

	59°	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	22.7	22.1	18.3	16.2	10.3	8.9	6.6	4.4	3.0	1.4	0.7
7.5°	248.6	248.6	248.6	244.9	154.4	95.6	44.1	27.9	25.1	23.5	20.7
10°	244.1	244.1	244.1	239.8	197.7	190.5	189.1	189.1	187.6	185.3	170.6
12.5°	250.7	240.4	216.2	202.2	245.5	303.6	436.8	439.7	475.1	476.6	476.6
15°	442.7	422.2	422.2	428.8	476.6	475.8	476.6	477.3	480.2	483.1	486.1
17.5°	428.8	428.8	447.0	472.1	471.4	472.1	476.6	481.8	484.5	487.5	491.3
20°	612.6	759.6	784.0	768.5	703.7	708.9	712.5	714.8	717.7	723.6	716.3
22.5°	756.0	786.8	792.8	798.7	778.7	766.3	748.6	725.0	725.8	697.2	714.8
25°	769.9	778.7	787.5	797.2	769.9	844.9	957.5	978.1	964.1	962.7	971.3
27.5°	897.9	906.0	914.0	907.5	952.4	961.8	966.2	952.4	992.0	995.7	970.7
30°	884.7	889.9	894.3	873.6	941.2	951.6	943.5	994.2	1075.8	1137.7	1192.1
32.5°	991.3	1039.1	1022.9	1052.4	1094.2	1087.6	1114.7	1132.5	1141.2	1175.8	1198.7
35°	1052.4	1061.1	1043.6	1092.0	1104.6	1099.3	1134.6	1130.2	1170.8	1192.1	1220.6
37.5°	1119.9	1097.2	1119.9	1141.2	1127.4	1161.9	1160.4	1190.6	1210.3	1235.3	1278.7
40°	1211.9	1173.6	1222.1	1225.8	1217.1	1239.8	1239.8	1264.9	1282.5	1310.4	1390.5
42.5°	1334.0	1318.5	1349.3	1346.5	1347.9	1340.6	1366.3	1381.1	1398.7	1458.9	1520.0
45°	1497.1	1520.0	1515.6	1511.2	1506.7	1493.5	1516.2	1533.2	1556.8	1653.2	1663.4
47.5°	1673.0	1731.0	1726.6	1694.3	1693.6	1706.8	1711.9	1716.3	1785.4	1828.9	1844.9
50°	1907.6	1942.9	1928.8	1879.6	1890.7	1910.4	1908.3	1920.8	2014.2	2021.5	2042.8
52.5°	2161.2	2164.9	2134.7	2103.1	2105.4	2117.1	2110.5	2184.0	2220.8	2215.7	2237.0
55°	2417.1	2385.4	2339.9	2356.2	2334.1	2320.1	2319.3	2428.2	2403.1	2411.2	2423.7
57.5°	2668.7	2651.0	2576.7	2598.1	2573.7	2542.2	2588.5	2622.3	2596.6	2590.7	2601.0
60°	2925.3	2887.8	2827.4	2832.6	2783.4	2747.2	2812.1	2780.4	2743.0	2714.9	2745.8
62.5°	3112.1	3044.4	3031.2	2967.2	2921.6	2898.0	2970.9	2895.9	2846.5	2809.1	2860.6
65°	3282.6	3186.3	3210.6	3116.5	3057.7	3073.8	3085.6	3009.9	2942.8	2931.9	2929.0
67.5°	3699.6	3605.4	3598.9	3506.3	3387.1	3437.9	3382.7	3295.2	3245.1	3273.2	3240.7
70°	4685.0	4541.7	4459.2	4326.1	4067.3	4095.3	3944.5	3771.7	3687.2	3671.6	3679.0
72°	5293.2	5238.7	5132.0	5054.1	4736.5	4616.6	4379.1	4179.1	4066.5	3952.5	3958.4
72.5°	5286.5	5275.4	5182.1	5126.9	4859.3	4737.2	4488.7	4245.2	4150.3	4011.4	3985.7
75°	4517.3	4595.3	4519.6	4555.6	4573.2	4498.3	4326.9	4096.7	3978.4	3785.6	3649.6
77.5°	3183.4	3243.7	3218.0	3165.0	3278.3	3110.7	3048.0	2940.0	2851.7	2779.6	2612.0
80°	1964.1	1900.2	1916.4	1861.9	1786.2	1722.2	1587.7	1544.9	1431.0	1253.0	1183.2
82.5°	984.6	933.2	922.1	889.1	773.6	729.5	626.5	544.2	467.7	379.4	289.1
85°	517.8	498.6	479.4	461.1	408.1	354.4	312.5	261.0	199.2	137.5	93.5
87.5°	392.6	345.6	287.5	291.2	247.8	224.2	200.1	182.4	138.2	91.9	55.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P266432

CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-7027-HSS

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	17.6	12.4	8.9	5.1	3.0	1.4	0.7	0.7	0.7	0.0	0.0
10°	130.2	66.1	30.9	19.9	16.9	13.2	9.5	5.1	3.0	2.2	1.4
12.5°	477.3	477.3	477.3	472.1	402.3	341.1	323.6	319.2	312.5	308.1	303.6
15°	486.8	488.9	488.3	484.5	460.3	436.0	415.5	362.6	327.3	322.1	314.0
17.5°	493.3	483.8	455.9	447.0	447.9	447.9	446.4	466.2	466.9	445.6	511.9
20°	698.6	731.0	742.0	746.4	749.4	750.9	749.4	746.4	756.7	760.3	697.2
22.5°	737.6	742.7	749.4	755.2	756.7	761.1	784.0	780.2	757.5	751.5	744.2
25°	982.4	993.4	1003.0	1010.5	1028.7	1064.0	1069.9	1061.1	1055.2	1047.2	1033.2
27.5°	981.7	993.4	1006.0	1045.0	1081.0	1078.1	1078.8	1078.1	1072.1	1062.5	1022.9
30°	1213.3	1238.4	1288.3	1333.3	1339.2	1345.0	1347.9	1344.3	1362.5	1338.4	1345.0
32.5°	1225.8	1281.7	1328.9	1344.3	1361.9	1372.3	1379.5	1401.5	1391.4	1403.1	1379.5
35°	1278.1	1335.4	1355.3	1381.8	1403.8	1419.2	1450.9	1448.6	1467.8	1447.2	1420.0
37.5°	1353.7	1375.1	1408.9	1442.8	1472.2	1514.8	1526.0	1553.8	1540.7	1521.5	1496.4
40°	1420.7	1455.3	1489.8	1533.2	1596.5	1611.9	1662.7	1654.6	1646.5	1621.5	1628.1
42.5°	1535.5	1578.9	1617.8	1690.6	1726.0	1789.2	1807.5	1794.3	1792.1	1798.6	1795.7
45°	1692.8	1734.0	1792.1	1867.8	1939.9	1972.3	1983.3	1982.5	1992.8	2023.1	1978.8
47.5°	1878.8	1916.4	2004.6	2065.7	2142.1	2176.7	2194.3	2212.7	2261.3	2245.0	2206.9
50°	2070.1	2142.8	2193.7	2309.8	2353.2	2395.8	2419.3	2492.2	2509.1	2476.6	2488.5
52.5°	2270.7	2366.3	2417.1	2510.6	2569.3	2603.8	2686.3	2756.1	2745.1	2753.1	2792.9
55°	2498.0	2523.8	2639.2	2700.2	2757.5	2812.1	2927.4	2943.7	2941.4	2995.8	2967.2
57.5°	2677.5	2726.7	2792.2	2837.0	2884.8	2990.6	3055.4	3056.2	3108.3	3126.8	3081.1
60°	2752.4	2844.4	2871.6	2908.4	2972.3	3098.9	3110.7	3136.3	3223.1	3193.7	3151.1
62.5°	2867.2	2914.2	2931.9	2967.2	3100.9	3153.2	3162.8	3261.3	3286.3	3265.0	3231.2
65°	3006.2	3007.6	3042.9	3107.6	3260.6	3290.8	3358.5	3467.9	3457.7	3458.5	3433.4
67.5°	3292.9	3304.0	3335.5	3480.5	3558.5	3576.8	3720.9	3767.2	3758.4	3758.4	3747.4
70°	3654.0	3652.6	3677.5	3859.8	3861.4	3918.8	4027.6	4029.7	4026.8	3994.6	3959.2
72°	3876.8	3814.4	3915.1	3962.9	3928.3	4033.5	4028.3	3975.4	3912.8	3846.7	3757.7
72.5°	3876.0	3816.4	3899.6	3918.8	3883.5	3974.6	3927.6	3880.5	3810.6	3715.0	3610.6
75°	3492.3	3373.9	3432.7	3310.7	3279.7	3311.3	3177.6	3105.4	2970.9	2832.6	2712.1
77.5°	2464.2	2426.7	2342.9	2217.8	2217.0	2125.8	1925.2	1859.0	1751.7	1590.5	1475.8
80°	1066.9	977.3	890.5	832.4	766.3	716.3	560.4	538.3	477.3	394.9	339.0
82.5°	228.7	181.6	147.9	131.6	119.8	113.9	95.6	93.5	92.6	87.6	85.2
85°	64.7	51.5	47.2	45.6	45.6	44.1	46.4	48.5	49.2	49.9	50.8
87.5°	35.4	27.9	24.3	24.3	25.7	27.2	30.2	33.1	35.4	35.4	36.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P266432

CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-7027-HSS

CANDELA DISTRIBUTION (continued):

	82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
10°	1.4	2.2	2.2	3.0	2.2	1.4	3.0	3.0	1.4	1.4	1.4
12.5°	298.5	296.4	294.9	289.8	287.5	283.9	279.5	275.8	273.5	292.7	232.4
15°	306.6	300.8	297.1	295.6	314.0	325.0	322.1	318.4	312.5	286.7	225.0
17.5°	503.7	528.7	542.7	591.3	564.0	574.3	564.0	552.9	551.5	452.2	221.3
20°	668.5	654.4	640.5	627.9	616.2	603.0	590.5	597.8	601.5	523.6	322.9
22.5°	708.1	673.5	659.6	643.5	655.9	652.3	636.8	620.6	604.5	516.3	286.7
25°	1009.7	956.8	955.3	947.9	921.4	895.7	868.4	844.1	835.3	708.9	356.6
27.5°	1002.2	1005.3	982.4	955.9	931.0	906.0	900.1	883.2	853.0	684.6	284.7
30°	1327.3	1296.4	1265.5	1228.8	1211.9	1192.1	1147.9	1106.1	1076.6	852.3	276.5
32.5°	1351.6	1320.7	1290.5	1279.5	1242.7	1195.7	1154.5	1135.4	1090.5	813.3	203.6
35°	1391.4	1374.3	1373.7	1328.9	1281.1	1251.6	1214.8	1160.4	1103.7	786.8	146.3
37.5°	1495.0	1483.2	1438.4	1391.4	1369.2	1321.4	1261.1	1195.7	1133.2	764.7	113.9
40°	1617.8	1578.1	1533.9	1522.2	1466.4	1403.1	1329.5	1258.2	1180.3	756.0	97.7
42.5°	1756.0	1714.9	1714.9	1656.0	1594.2	1509.7	1428.0	1347.9	1260.4	758.2	88.3
45°	1941.3	1951.7	1903.9	1831.7	1756.0	1677.3	1574.4	1481.8	1375.1	783.1	83.2
47.5°	2219.4	2187.0	2120.0	2045.8	1962.6	1873.8	1751.7	1642.8	1530.4	833.2	79.4
50°	2492.8	2429.6	2375.2	2293.6	2198.7	2086.3	1959.1	1841.3	1712.7	894.9	77.3
52.5°	2740.0	2676.1	2609.0	2523.0	2423.7	2320.1	2191.3	2051.6	1905.3	968.5	74.3
55°	2917.2	2850.2	2776.8	2690.8	2588.5	2473.0	2341.4	2203.2	2042.8	1016.3	69.1
57.5°	3026.7	2962.0	2893.6	2806.8	2710.5	2596.6	2462.0	2312.6	2150.3	1048.6	64.7
60°	3101.8	3040.0	2972.3	2892.2	2800.9	2692.8	2564.2	2421.6	2255.4	1078.1	57.3
62.5°	3192.9	3149.5	3095.9	3034.8	2964.2	2869.4	2734.1	2592.9	2415.0	1130.2	47.2
65°	3409.8	3379.8	3345.8	3306.2	3226.8	3140.7	3023.1	2870.2	2678.1	1219.2	34.6
67.5°	3727.5	3696.6	3654.8	3594.5	3517.3	3417.2	3270.2	3082.7	2863.4	1225.1	25.1
70°	3905.6	3846.7	3784.2	3691.6	3573.1	3430.4	3231.9	3014.3	2765.0	1052.4	16.9
72°	3672.5	3547.3	3435.6	3333.4	3155.4	3006.8	2839.3	2611.3	2364.9	762.7	13.2
72.5°	3494.4	3424.6	3313.6	3183.4	3035.6	2884.1	2656.8	2442.1	2206.1	701.5	12.4
75°	2607.6	2466.3	2367.2	2228.2	2081.1	1961.2	1757.5	1607.4	1413.4	296.4	10.3
77.5°	1356.0	1280.3	1201.7	1079.6	955.9	872.9	718.5	659.6	544.2	79.4	13.2
80°	301.6	286.7	261.0	206.6	174.4	152.3	113.9	97.7	84.6	26.5	15.5
82.5°	85.2	85.2	80.2	72.9	67.6	60.2	54.3	49.2	42.0	12.4	11.8
85°	49.9	49.9	49.9	49.2	47.8	45.6	42.7	38.9	31.6	9.5	5.8
87.5°	36.8	36.8	37.5	37.5	35.4	35.4	33.9	31.6	26.5	6.6	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P266432

CATALOG NUMBER: UTLD-AF24-70-D-U-SL3-7027-HSS

CANDELA DISTRIBUTION (continued):

	115°	125°	135°	145°	155°	165°	175°	180°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.7	0.0	0.0	0.0	14.0	103.7	108.1	108.9
10°	0.7	0.0	66.1	111.0	101.5	92.6	86.1	85.2
12.5°	95.6	75.7	93.5	75.0	55.2	45.6	38.9	38.3
15°	131.0	147.9	69.1	36.8	33.1	53.7	55.2	55.2
17.5°	148.5	103.7	57.3	49.2	52.9	52.9	52.9	52.2
20°	190.5	77.3	65.4	57.3	49.9	52.2	69.9	72.0
22.5°	143.4	79.4	67.6	63.2	65.4	72.9	73.5	73.5
25°	116.9	80.8	72.9	73.5	67.6	67.0	70.5	72.0
27.5°	101.5	78.0	74.3	69.1	72.9	75.7	76.4	77.3
30°	90.5	75.0	66.1	64.7	65.4	61.1	61.1	61.8
32.5°	91.9	66.1	61.1	55.9	49.2	52.9	52.9	51.5
35°	82.4	66.1	52.9	44.8	40.5	37.5	40.5	40.5
37.5°	75.7	59.6	46.4	38.3	30.9	31.6	30.9	30.2
40°	70.5	53.7	40.5	29.5	24.3	22.7	22.1	21.3
42.5°	65.4	48.5	33.1	22.1	17.6	16.2	15.5	14.7
45°	61.1	44.1	26.5	16.2	12.4	11.0	10.3	10.3
47.5°	58.1	38.9	19.9	11.8	8.9	7.4	6.6	6.6
50°	56.7	33.9	15.5	8.9	5.1	4.4	3.7	3.7
52.5°	55.9	27.2	11.8	5.8	3.0	2.2	1.4	1.4
55°	58.1	21.3	8.9	3.7	0.7	0.0	0.0	0.0
57.5°	52.2	16.9	5.1	1.4	0.0	0.0	0.0	0.0
60°	40.5	12.4	3.0	0.7	0.0	0.0	0.0	0.0
62.5°	30.2	8.9	0.7	0.0	0.0	0.0	0.0	0.0
65°	21.3	5.8	0.7	0.0	0.0	0.0	0.0	0.0
67.5°	14.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	10.3	3.0	0.0	0.7	0.0	0.0	0.0	0.0
72°	7.4	2.2	0.0	0.7	0.0	0.0	0.0	0.0
72.5°	7.4	2.2	0.0	0.7	0.0	0.0	0.0	0.0
75°	5.1	3.0	0.0	1.4	0.0	0.0	0.0	0.0
77.5°	3.7	3.0	0.0	1.4	0.7	0.0	0.0	0.0
80°	3.0	3.7	0.0	2.2	0.7	0.0	0.0	0.0
82.5°	3.0	5.1	0.0	3.0	1.4	0.0	0.0	0.0
85°	3.0	5.1	0.0	3.7	2.2	0.7	0.0	0.0
87.5°	3.7	5.8	0.0	4.4	2.2	0.7	0.7	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)