

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: P156936

Luminaire Tested: **UTLD-F03-LED-E-U-5MQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156936
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33664)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-F03-LED-E-U-5MQ-7050
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7153.6 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 78.3
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

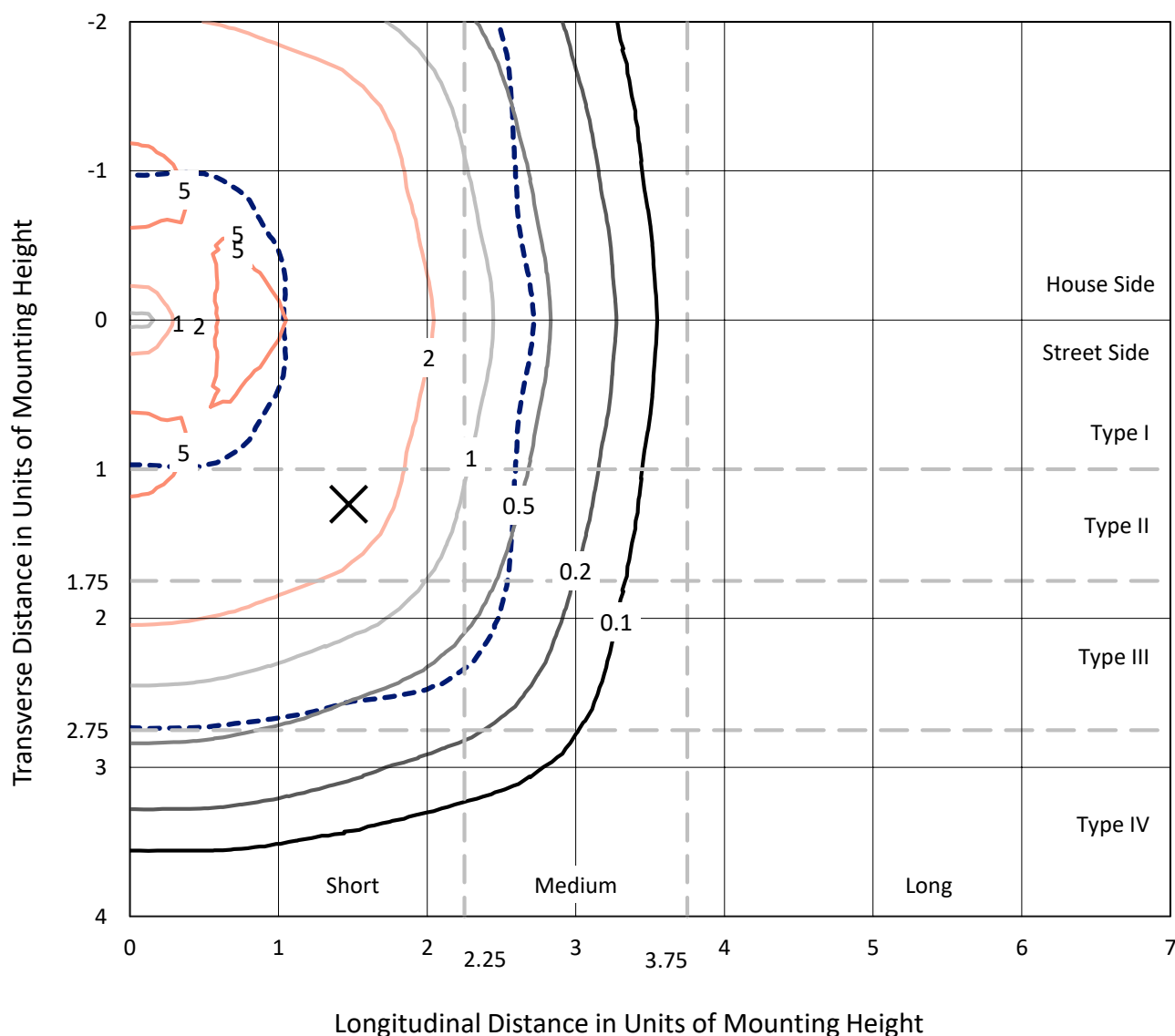


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

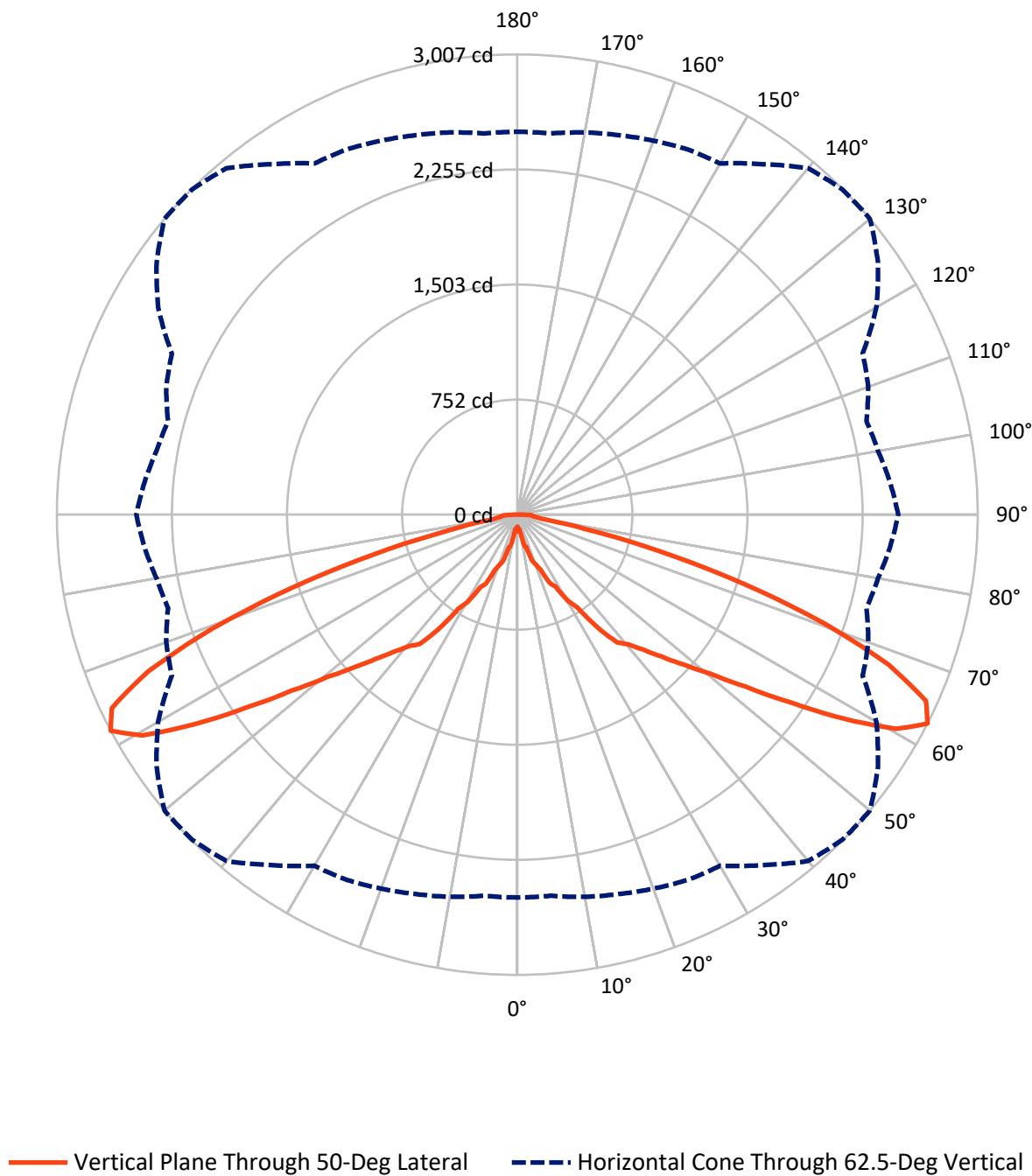


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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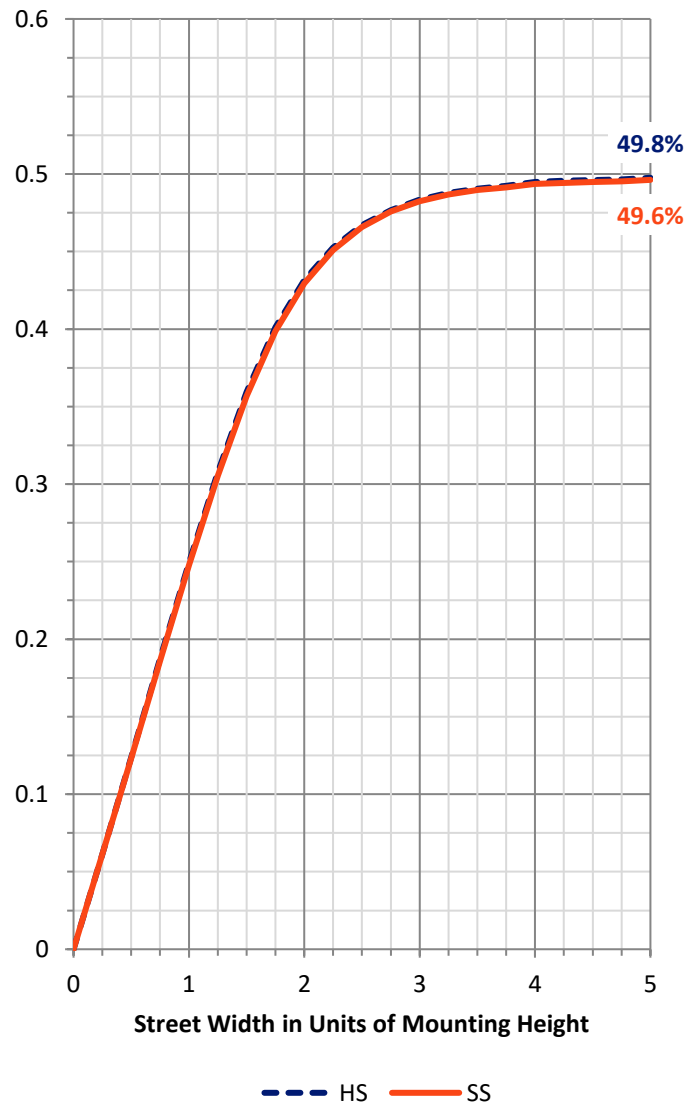
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3576.8	0.0	3576.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3576.8	0.0	3576.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	7153.6	0.0	7153.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.9	0.2
10°-20°	68.9	1.0
20°-30°	229.3	3.2
30°-40°	586.9	8.2
40°-50°	1087.7	15.2
50°-60°	1976.2	27.6
60°-70°	2329.5	32.6
70°-80°	764.1	10.7
80°-90°	100.2	1.4
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°	7153.6	100.0
0°-180°	7153.6	100.0

Coefficient of Utilization



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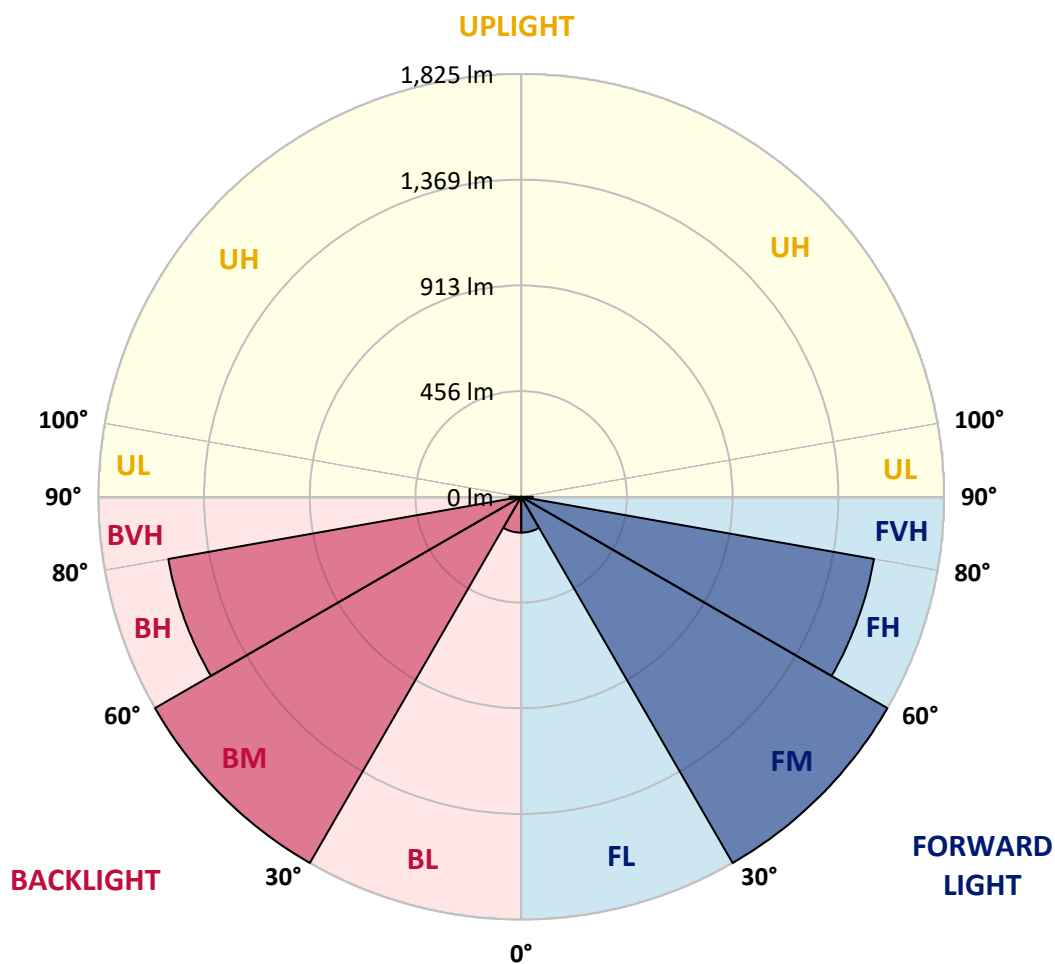
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	154.6	2.2			
FM	(30°-60°)	1825.4	25.5			
FH	(60°-80°)	1546.8	21.6			G1/1800
FVH	(80°-90°)	50.1	0.7			G1/100
BL	(0°-30°)	154.6	2.2	B1/500		
BM	(30°-60°)	1825.4	25.5	B2/2500		
BH	(60°-80°)	1546.8	21.6	B3/2500		G1/1800
BVH	(80°-90°)	50.1	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
2.5°	123.9	123.9	123.9	124.5	125.8	124.8	122.6	121.6	108.9	107.7	95.0
5°	90.8	91.2	91.8	91.5	91.8	94.4	92.7	94.4	92.1	95.3	110.6
7.5°	147.4	149.3	148.3	147.0	145.8	139.1	122.9	109.0	96.2	95.0	94.0
10°	158.2	158.8	158.2	157.6	157.2	157.2	156.6	151.9	150.2	146.8	125.5
12.5°	225.6	227.1	225.8	224.2	223.6	196.6	182.3	165.8	160.8	204.9	209.7
15°	238.9	241.4	238.9	237.3	236.6	232.8	229.7	265.2	261.8	223.3	222.0
17.5°	311.3	311.6	310.0	309.1	300.8	285.9	293.2	286.2	280.8	279.5	317.3
20°	356.4	350.7	339.9	323.7	314.5	350.7	354.8	344.3	319.6	335.8	348.8
22.5°	406.6	407.2	405.0	394.5	393.2	414.9	380.6	388.2	403.4	380.8	390.1
25°	501.9	501.6	494.0	458.4	451.4	443.4	442.5	453.3	430.1	463.5	496.8
27.5°	547.6	541.3	532.1	517.2	540.3	527.6	518.1	478.1	545.1	513.7	532.7
30°	670.2	666.4	649.0	639.4	633.4	590.5	574.6	611.5	595.3	601.6	653.1
32.5°	871.6	872.3	843.7	793.8	726.8	723.0	700.4	679.8	701.4	691.8	724.9
35°	1054.6	1030.5	970.4	952.6	917.4	901.5	877.7	844.6	860.2	855.4	910.4
37.5°	1136.6	1135.3	1102.2	1079.1	1063.8	1007.9	990.4	1011.4	998.1	985.0	1058.4
40°	1311.9	1309.0	1273.2	1238.5	1202.9	1119.7	1092.7	1074.9	1061.0	1063.8	1113.0
42.5°	1419.3	1422.4	1384.0	1353.2	1297.9	1235.1	1191.2	1182.0	1158.2	1157.5	1206.1
45°	1540.0	1538.7	1510.4	1469.1	1412.6	1362.7	1303.0	1297.3	1276.4	1275.4	1323.0
47.5°	1678.5	1674.0	1650.6	1613.4	1561.9	1493.0	1445.3	1433.6	1418.0	1409.1	1465.7
50°	1867.2	1866.2	1837.3	1791.6	1750.0	1682.6	1624.2	1595.6	1589.2	1577.8	1633.4
52.5°	2116.2	2111.4	2097.5	2037.4	2000.0	1892.6	1831.9	1807.1	1817.3	1806.5	1866.2
55°	2386.2	2374.2	2368.1	2313.8	2285.2	2182.0	2111.4	2100.6	2112.1	2121.6	2167.4
57.5°	2601.0	2594.0	2603.2	2568.5	2528.2	2462.8	2393.8	2425.3	2460.2	2474.2	2516.1
60°	2646.7	2651.1	2671.1	2673.7	2667.3	2654.3	2610.1	2684.8	2784.2	2817.6	2841.4
62.5°	2501.2	2499.3	2535.2	2566.0	2600.0	2633.0	2648.6	2794.4	2953.9	3003.1	3006.6
65°	2243.9	2246.2	2290.0	2321.7	2363.7	2417.4	2509.2	2667.0	2884.6	2945.9	2933.2
67.5°	1901.4	1917.0	1952.0	2005.0	2042.2	2104.5	2213.4	2369.0	2575.8	2632.7	2615.6
70°	1482.8	1500.9	1537.8	1571.1	1626.4	1705.2	1769.3	1939.9	2104.8	2151.8	2125.1
72.5°	934.6	952.3	1014.3	1052.7	1104.5	1175.3	1239.8	1394.2	1546.0	1593.0	1544.4
75°	331.0	346.5	404.0	457.4	513.3	595.9	683.3	818.3	975.2	1033.6	964.7
77.5°	129.6	132.4	142.9	150.0	171.8	206.8	257.3	333.2	458.0	513.0	456.8
80°	113.7	119.1	125.5	129.6	129.9	127.7	125.5	131.8	159.5	178.2	155.3
82.5°	98.5	104.5	116.6	124.2	125.2	122.0	118.5	114.0	110.2	105.5	113.4
85°	72.4	87.7	104.5	114.6	116.6	114.0	112.8	108.0	100.0	90.6	102.6
87.5°	29.2	44.8	82.0	97.2	96.6	88.3	90.8	92.4	82.0	60.0	87.1
90°	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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
2.5°	95.9	86.8	83.2	79.1	78.2	77.2	77.2	76.8
5°	119.1	124.2	121.0	104.2	84.5	82.9	79.1	78.8
7.5°	94.4	94.0	108.0	119.4	111.2	83.5	82.6	82.0
10°	105.2	135.0	137.2	141.6	175.7	148.4	125.8	122.6
12.5°	204.9	168.7	147.4	151.8	162.0	175.6	134.4	129.0
15°	216.6	217.0	237.3	213.2	209.3	234.1	191.5	198.2
17.5°	276.4	274.1	273.2	230.3	225.5	224.2	230.0	216.0
20°	317.6	302.4	362.8	378.3	345.6	334.2	340.5	337.4
22.5°	425.7	436.1	405.6	403.1	396.1	435.5	446.6	430.1
25°	447.6	494.9	542.9	543.8	522.5	506.4	531.4	510.2
27.5°	588.3	576.8	593.0	581.0	641.0	625.2	623.9	602.3
30°	638.2	662.0	696.6	692.8	713.4	703.6	693.1	729.4
32.5°	757.3	758.2	788.4	863.4	893.2	916.7	898.3	908.5
35°	925.6	975.5	990.1	985.4	992.0	1022.5	999.0	998.7
37.5°	1063.5	1063.2	1055.2	1043.8	1059.7	1082.6	1087.0	1066.7
40°	1129.6	1128.9	1133.4	1140.7	1165.5	1179.8	1204.5	1170.9
42.5°	1222.0	1217.3	1234.4	1252.8	1274.1	1288.1	1325.6	1289.0
45°	1342.4	1339.9	1354.2	1368.2	1385.9	1392.9	1443.1	1444.7
47.5°	1480.3	1486.9	1468.8	1484.0	1503.1	1518.7	1580.6	1589.6
50°	1646.4	1662.3	1619.1	1632.1	1656.2	1691.2	1739.5	1773.8
52.5°	1879.2	1868.7	1835.7	1825.9	1874.2	1936.4	1984.1	2040.0
55°	2180.7	2144.2	2107.3	2089.2	2142.6	2225.8	2274.4	2346.8
57.5°	2509.2	2446.2	2348.8	2362.7	2389.1	2458.0	2484.0	2597.8
60°	2772.2	2667.6	2515.8	2480.6	2471.0	2507.9	2579.3	2636.5
62.5°	2874.8	2708.0	2488.8	2439.3	2360.5	2392.5	2443.0	2487.8
65°	2760.7	2545.7	2326.8	2238.2	2147.6	2178.4	2205.2	2233.1
67.5°	2451.3	2241.4	2039.3	1918.6	1837.0	1839.8	1875.8	1873.5
70°	1996.1	1793.2	1623.2	1523.8	1442.1	1427.5	1447.8	1465.0
72.5°	1403.1	1238.5	1113.7	1018.7	930.8	923.1	900.5	923.1
75°	806.8	649.3	548.9	449.5	359.6	341.2	310.0	315.1
77.5°	331.0	231.6	179.1	144.9	133.4	130.2	132.2	130.9
80°	134.0	122.9	120.4	120.0	122.3	123.9	124.5	118.8
82.5°	119.8	119.4	117.5	116.6	117.2	117.8	110.2	105.4
85°	112.1	111.8	109.6	108.0	108.3	104.8	93.7	83.2
87.5°	99.7	94.0	89.9	95.3	97.2	89.2	59.7	48.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)