

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: P239403

Luminaire Tested: **UTLD-AF24-70-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-9-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-70-D-U-5WQ
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
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: 7616 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - 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

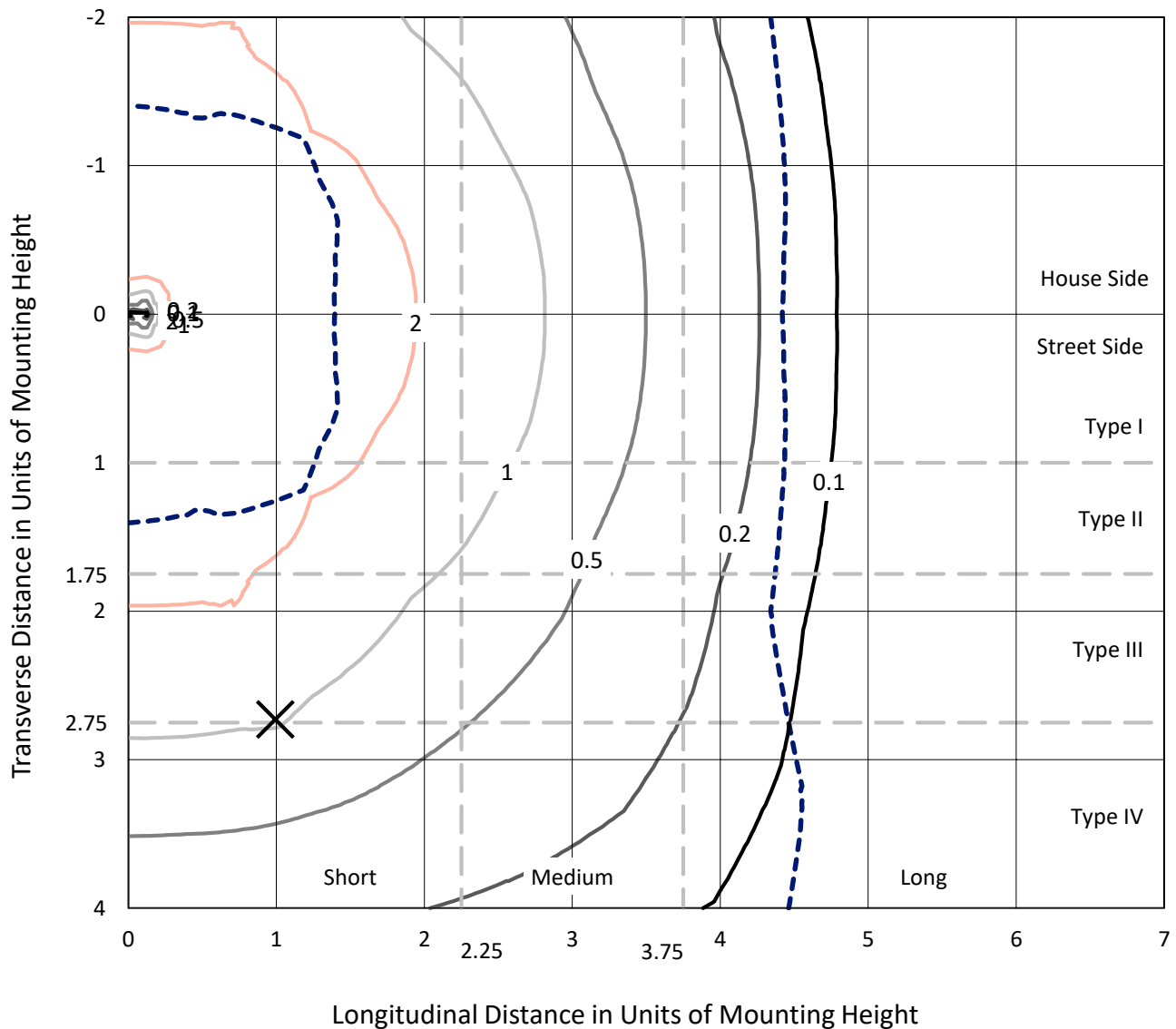


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

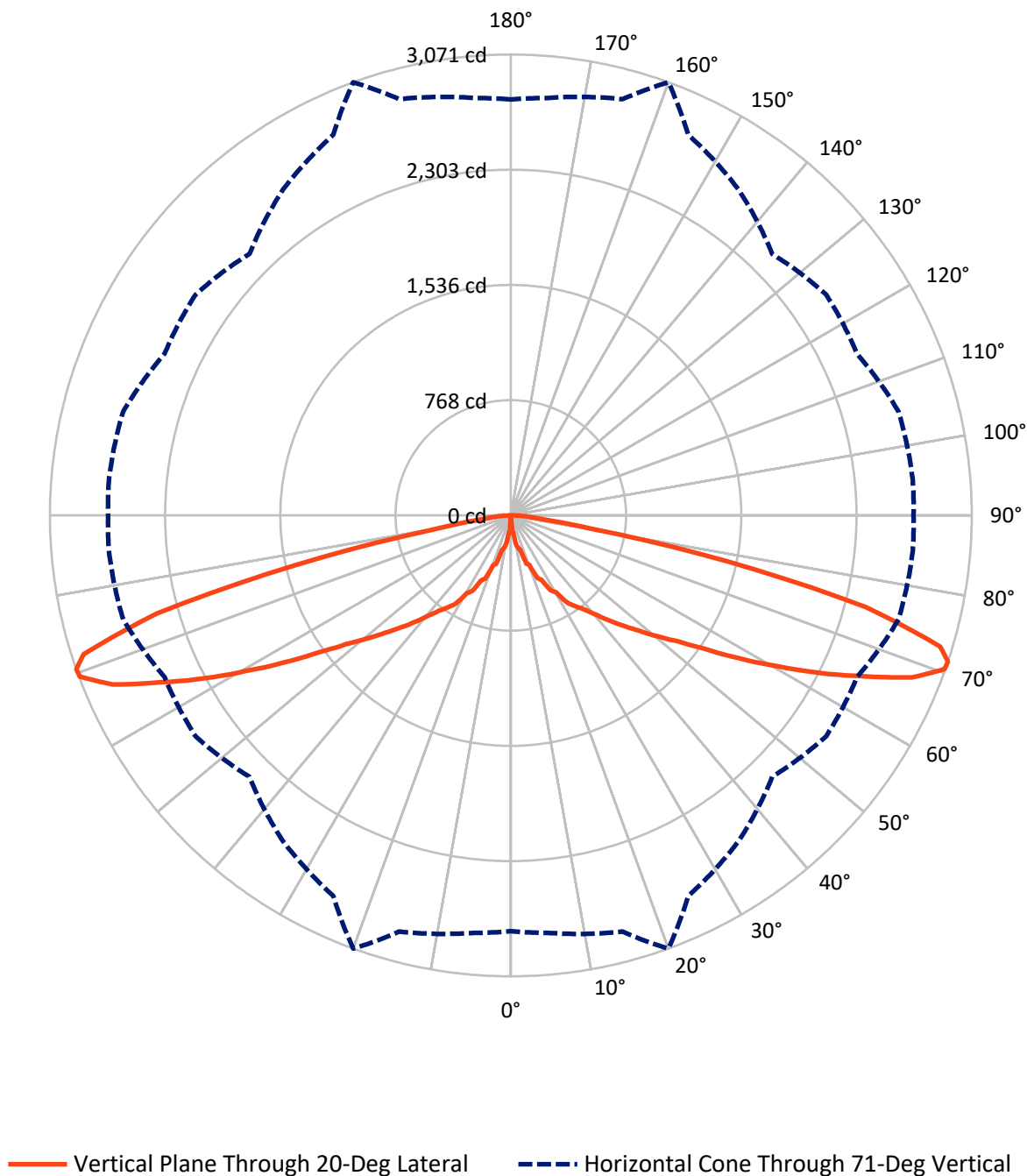


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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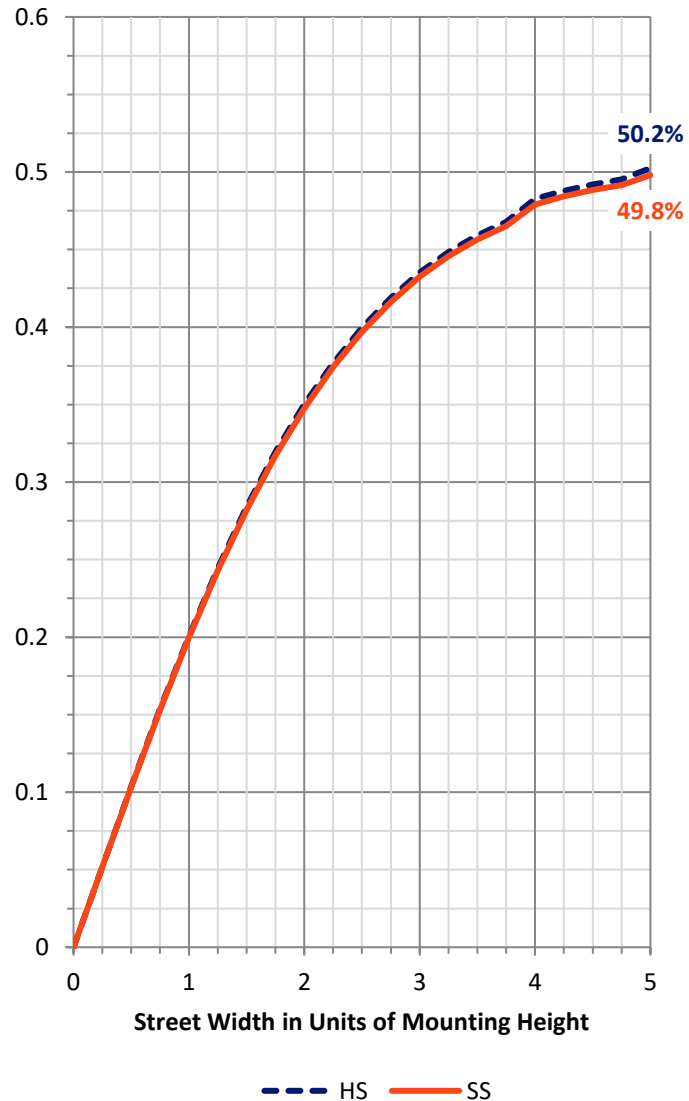
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3808.0	0.0	3808.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3808.0	0.0	3808.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7616.0	0.0	7616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	0.1
10°-20°	62.9	0.8
20°-30°	213.0	2.8
30°-40°	434.2	5.7
40°-50°	743.6	9.8
50°-60°	1310.1	17.2
60°-70°	2231.1	29.3
70°-80°	2307.7	30.3
80°-90°	308.3	4.0
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°	7616.0	100.0
0°-180°	7616.0	100.0

Coefficient of Utilization



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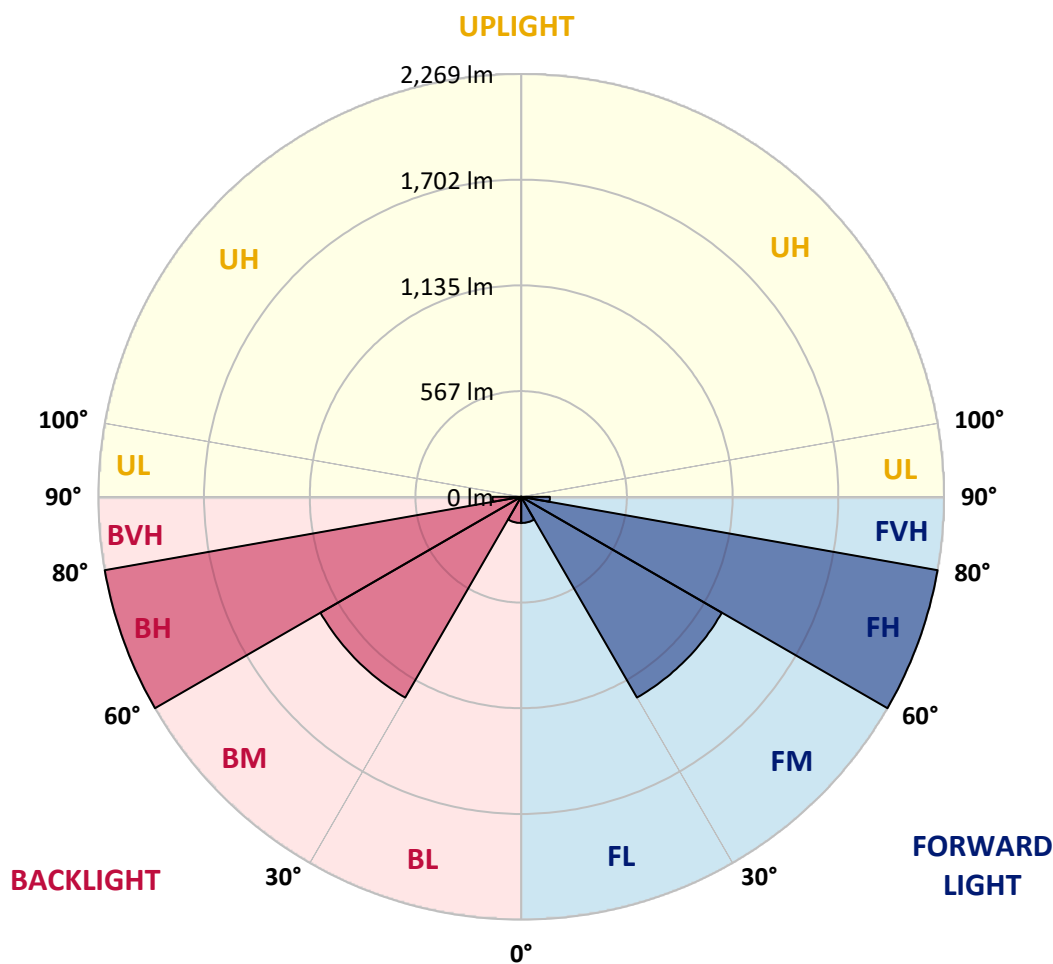
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	140.5	1.8			
FM	(30°-60°)	1243.9	16.3			
FH	(60°-80°)	2269.4	29.8			G2/5000
FVH	(80°-90°)	154.2	2.0			G2/225
BL	(0°-30°)	140.5	1.8	B1/500		
BM	(30°-60°)	1243.9	16.3	B2/2500		
BH	(60°-80°)	2269.4	29.8	B3/2500		G2/5000
BVH	(80°-90°)	154.2	2.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	20°	25°	35°	45°	55°	65°	75°	85°
0°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2.5°	16.9	16.1	15.2	27.9	14.4	11.8	5.9	3.4	2.5	2.5	2.5
5°	60.0	60.0	60.0	114.9	59.1	57.5	49.9	43.9	11.8	3.4	2.5
7.5°	104.8	104.8	81.1	116.6	71.0	60.8	58.3	56.6	45.6	9.3	4.2
10°	167.3	166.5	161.4	200.3	154.6	115.8	70.1	59.1	52.4	28.7	17.7
12.5°	180.0	178.3	174.1	222.2	168.1	163.9	126.7	87.0	116.6	174.1	147.9
15°	270.4	272.1	239.1	241.7	212.1	173.2	190.1	224.8	186.7	200.3	170.7
17.5°	297.4	295.7	289.8	338.8	278.0	232.4	258.6	263.6	224.8	262.8	267.8
20°	369.2	364.2	341.4	351.5	296.6	324.5	303.3	308.4	346.4	339.7	345.6
22.5°	428.4	427.5	416.6	452.9	370.9	365.0	347.3	376.0	382.8	370.9	426.7
25°	486.7	481.6	434.3	476.5	421.6	419.9	414.9	411.5	454.6	494.3	521.3
27.5°	553.4	550.9	534.0	564.4	490.9	447.8	450.4	479.1	505.3	518.8	607.5
30°	617.6	616.8	560.2	595.7	545.0	512.0	496.0	523.0	572.0	654.8	708.9
32.5°	707.2	703.8	664.1	694.5	593.1	561.0	549.2	568.6	638.8	679.3	736.8
35°	804.4	801.0	719.0	743.5	649.8	605.0	583.0	627.8	655.7	716.5	781.6
37.5°	855.1	849.2	806.9	795.1	734.3	660.7	630.3	658.2	695.4	763.8	829.7
40°	915.1	912.5	877.9	866.1	785.8	713.1	667.5	698.8	751.1	819.6	894.8
42.5°	986.9	985.2	953.9	954.8	853.4	779.0	713.1	757.9	812.8	903.2	986.9
45°	1073.9	1068.0	1046.9	1047.7	939.6	851.7	778.2	836.5	877.9	984.4	1080.7
47.5°	1171.9	1171.1	1147.4	1147.4	1026.6	937.0	855.9	935.3	981.0	1106.9	1181.2
50°	1284.3	1282.6	1265.7	1265.7	1140.7	1030.0	949.7	1045.2	1095.0	1216.7	1298.7
52.5°	1407.7	1406.8	1402.6	1393.3	1267.4	1160.1	1068.0	1177.0	1220.1	1356.1	1427.1
55°	1554.7	1565.7	1562.3	1569.0	1433.9	1321.5	1211.6	1329.1	1375.6	1512.4	1566.5
57.5°	1741.4	1738.0	1754.9	1798.0	1629.0	1527.6	1392.5	1526.0	1542.9	1672.1	1722.8
60°	1912.1	1916.3	1949.3	2040.5	1831.8	1762.5	1607.9	1735.5	1736.3	1847.0	1885.1
62.5°	2094.6	2102.2	2158.8	2313.4	2045.6	2000.0	1843.7	1941.7	1933.2	2029.5	2067.6
65°	2299.9	2310.1	2387.0	2583.0	2283.9	2227.3	2065.0	2143.6	2141.1	2269.5	2266.1
67.5°	2549.2	2561.9	2631.1	2882.9	2566.9	2439.3	2251.8	2347.2	2338.8	2466.4	2457.1
70°	2748.6	2762.1	2837.3	3067.1	2757.0	2603.3	2409.8	2512.8	2519.6	2639.6	2653.1
71°	2771.4	2791.7	2871.1	3071.3	2797.6	2648.0	2463.0	2565.2	2545.8	2674.2	2688.6
72.5°	2703.8	2723.2	2827.2	2991.9	2814.5	2669.2	2540.7	2602.4	2526.4	2647.2	2647.2
75°	2294.9	2294.9	2441.0	2446.9	2568.6	2572.8	2593.1	2539.0	2300.8	2309.2	2271.2
77.5°	1432.2	1447.4	1600.3	1475.3	1869.8	2182.5	2396.2	2163.9	1762.5	1599.5	1475.3
80°	544.1	537.4	714.8	545.8	993.6	1473.6	1803.9	1479.5	934.5	616.0	462.2
82.5°	125.1	159.7	221.4	214.6	331.2	650.6	1002.1	657.4	300.0	233.2	180.0
85°	61.7	65.1	110.7	117.4	131.8	178.3	332.1	204.5	153.8	152.9	112.4
87.5°	25.3	29.6	61.7	60.0	59.1	74.4	67.6	95.5	98.0	103.9	65.9
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):

	90°
0°	2.5
2.5°	2.5
5°	2.5
7.5°	4.2
10°	17.7
12.5°	141.1
15°	178.3
17.5°	267.0
20°	347.3
22.5°	436.0
25°	518.8
27.5°	619.3
30°	714.8
32.5°	763.8
35°	801.8
37.5°	849.2
40°	910.0
42.5°	992.8
45°	1084.9
47.5°	1187.1
50°	1305.4
52.5°	1430.5
55°	1565.7
57.5°	1727.1
60°	1878.3
62.5°	2066.7
65°	2261.1
67.5°	2454.5
70°	2641.3
71°	2683.5
72.5°	2631.1
75°	2262.7
77.5°	1449.1
80°	439.4
82.5°	168.1
85°	107.3
87.5°	61.7
90°	0.0

(END OF REPORT)