

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: P266527

Luminaire Tested: **UTLD-AF24-100-D-U-5WQ-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-9-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-100-D-U-5WQ-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1200mA 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: 7846 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 V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 96
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

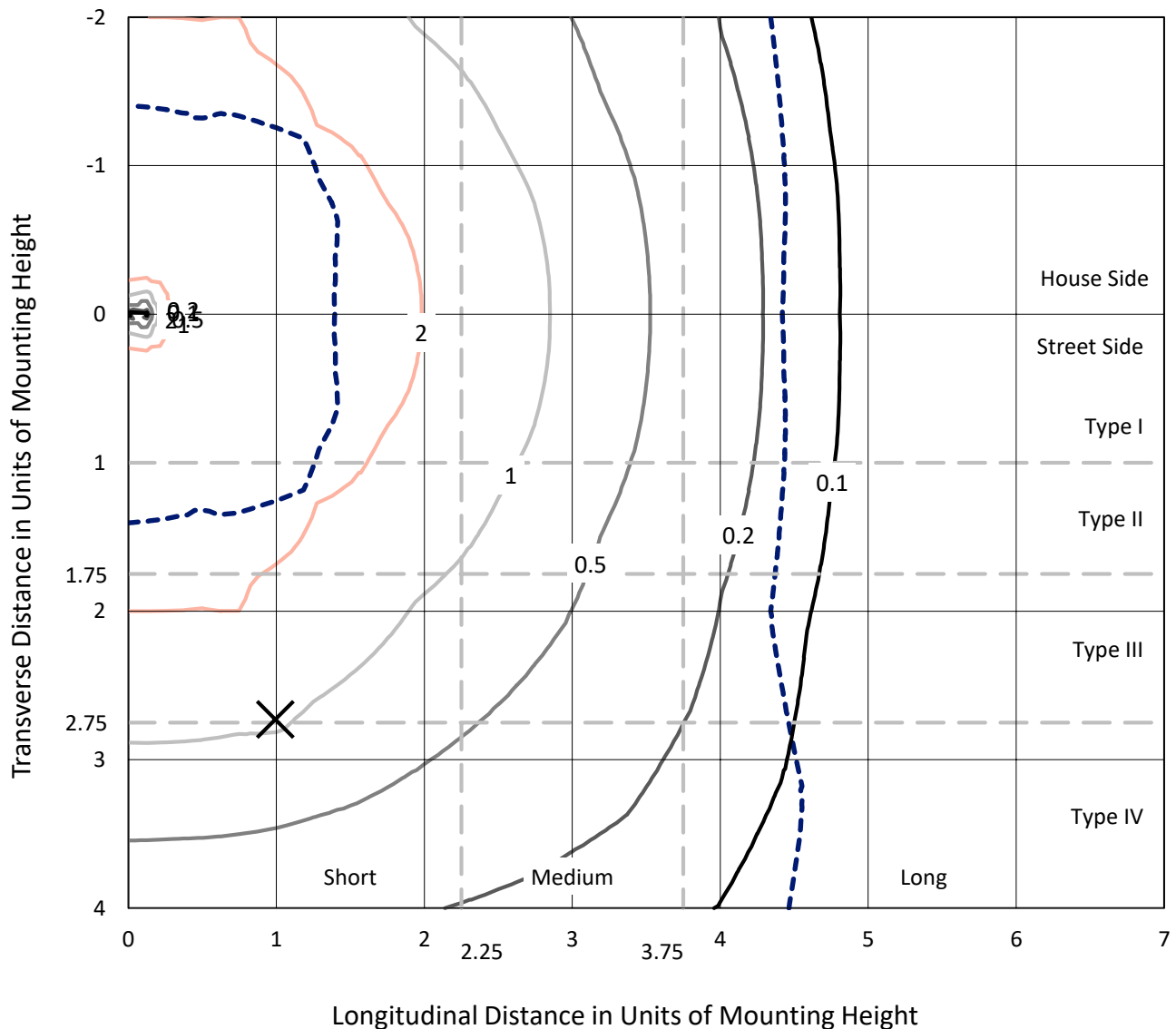


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

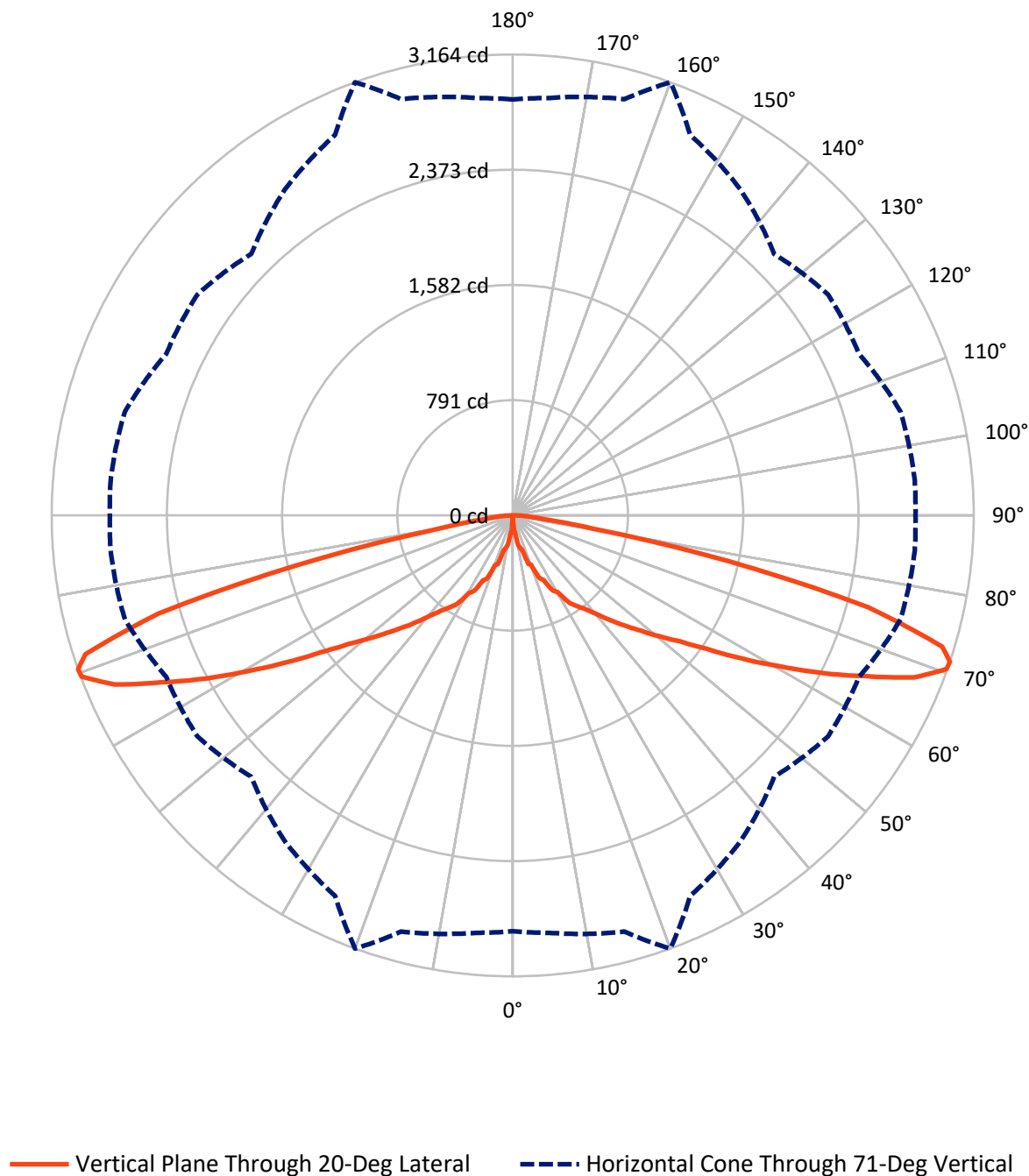


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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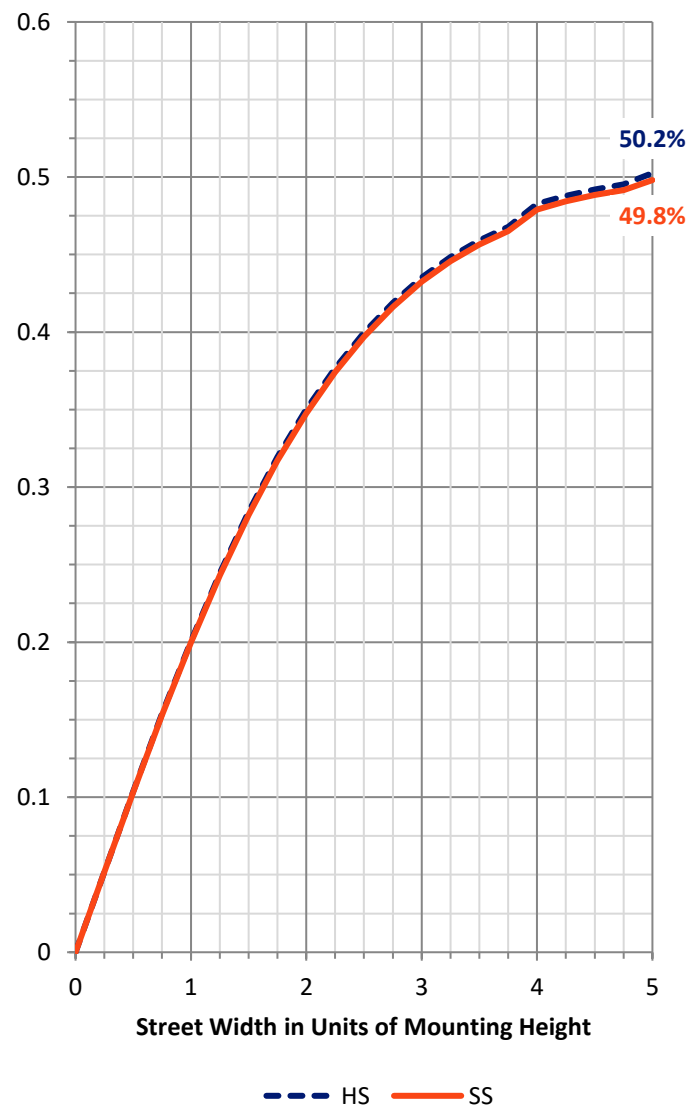
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3923.0	0.0	3923.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3923.0	0.0	3923.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7846.0	0.0	7846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.1
10°-20°	64.8	0.8
20°-30°	219.4	2.8
30°-40°	447.3	5.7
40°-50°	766.0	9.8
50°-60°	1349.6	17.2
60°-70°	2298.5	29.3
70°-80°	2377.4	30.3
80°-90°	317.6	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°	7846.0	100.0
0°-180°	7846.0	100.0

Coefficient of Utilization



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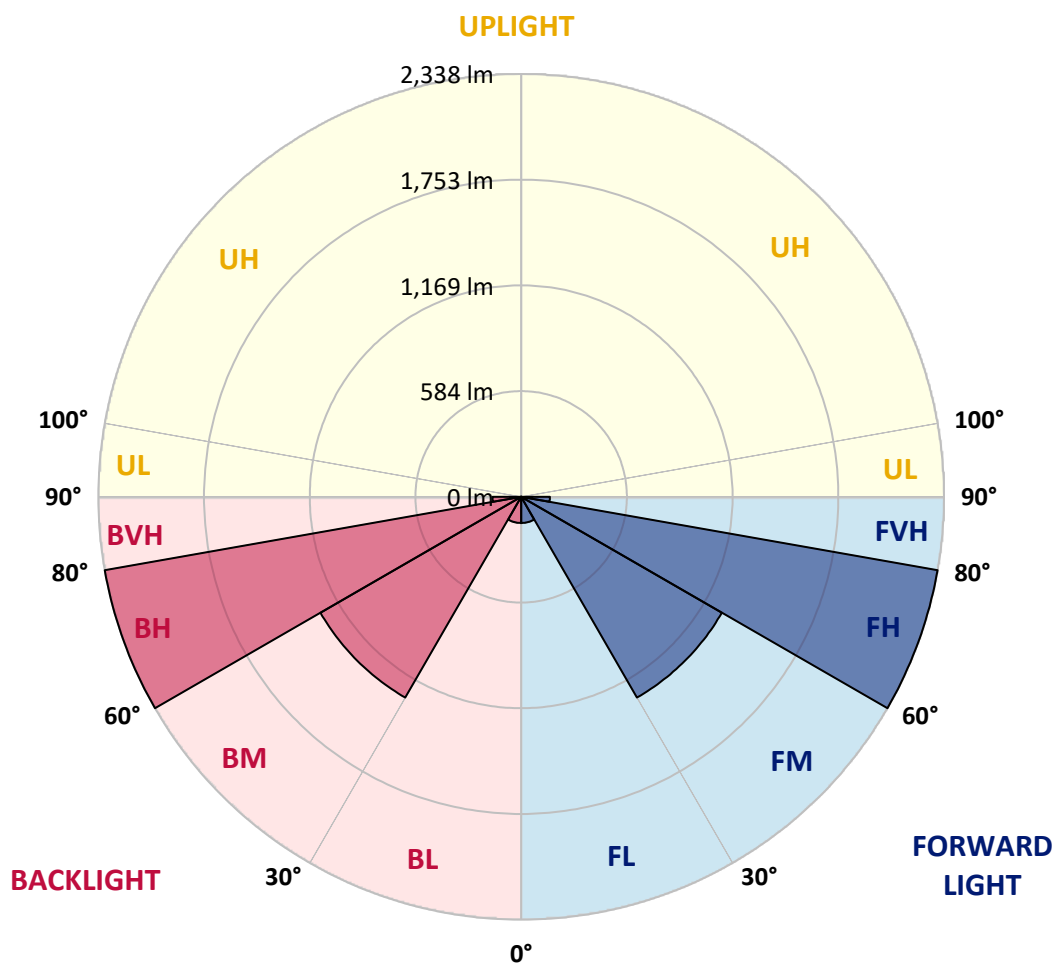
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	144.8	1.8			
FM	(30°-60°)	1281.5	16.3			
FH	(60°-80°)	2337.9	29.8			G2/5000
FVH	(80°-90°)	158.8	2.0			G2/225
BL	(0°-30°)	144.8	1.8	B1/500		
BM	(30°-60°)	1281.5	16.3	B2/2500		
BH	(60°-80°)	2337.9	29.8	B3/2500		G2/5000
BVH	(80°-90°)	158.8	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°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
2.5°	17.3	16.6	15.7	28.7	14.8	12.1	6.1	3.5	2.6	2.6	2.6
5°	61.9	61.9	61.9	118.3	60.9	59.2	51.4	45.3	12.1	3.5	2.6
7.5°	107.9	107.9	83.5	120.2	73.1	62.7	60.0	58.3	47.0	9.6	4.3
10°	172.4	171.4	166.2	206.3	159.3	119.3	72.3	60.9	54.0	29.6	18.2
12.5°	185.4	183.7	179.3	228.9	173.3	168.9	130.6	89.7	120.2	179.3	152.4
15°	278.6	280.4	246.3	248.9	218.5	178.5	195.8	231.6	192.3	206.3	175.8
17.5°	306.4	304.6	298.5	349.0	286.4	239.4	266.3	271.6	231.6	270.7	275.9
20°	380.4	375.1	351.6	362.0	305.6	334.3	312.5	317.7	356.8	349.9	356.0
22.5°	441.2	440.4	429.1	466.6	382.0	376.0	357.7	387.3	394.4	382.0	439.6
25°	501.3	496.1	447.4	491.0	434.4	432.7	427.5	423.9	468.2	509.2	537.0
27.5°	570.2	567.5	550.1	581.5	505.7	461.3	464.0	493.6	520.6	534.4	625.8
30°	636.3	635.5	577.2	613.6	561.4	527.5	511.0	538.9	589.3	674.5	730.3
32.5°	728.5	725.1	684.1	715.5	611.0	578.0	565.8	585.9	658.1	699.8	759.1
35°	828.6	825.3	740.7	766.0	669.3	623.2	600.5	646.7	675.4	738.1	805.2
37.5°	880.9	874.8	831.3	819.1	756.5	680.6	649.4	678.1	716.4	786.8	854.7
40°	942.7	940.0	904.5	892.1	809.6	734.6	687.7	719.8	773.8	844.3	921.8
42.5°	1016.7	1014.9	982.7	983.6	879.1	802.5	734.6	780.7	837.4	930.6	1016.7
45°	1106.4	1100.2	1078.4	1079.4	968.0	877.5	801.6	861.7	904.5	1014.0	1113.3
47.5°	1207.3	1206.5	1182.1	1182.1	1057.7	965.3	881.7	963.6	1010.7	1140.3	1216.9
50°	1323.1	1321.3	1303.9	1303.9	1175.2	1061.1	978.3	1076.8	1128.1	1253.5	1337.8
52.5°	1450.1	1449.2	1445.0	1435.4	1305.6	1195.1	1100.2	1212.5	1256.9	1397.0	1470.2
55°	1601.6	1612.9	1609.5	1616.4	1477.2	1361.4	1248.3	1369.2	1417.0	1558.1	1613.8
57.5°	1793.9	1790.5	1807.8	1852.3	1678.3	1573.8	1434.6	1572.0	1589.5	1722.6	1774.8
60°	1969.9	1974.1	2008.2	2102.2	1887.1	1815.7	1656.5	1787.8	1788.7	1902.8	1942.0
62.5°	2157.9	2165.6	2224.1	2383.4	2107.3	2060.4	1899.3	2000.3	1991.6	2090.8	2130.1
65°	2369.4	2379.8	2459.0	2661.0	2352.8	2294.5	2127.4	2208.4	2205.7	2338.0	2334.5
67.5°	2626.1	2639.2	2710.5	2969.9	2644.4	2513.0	2319.8	2418.1	2409.4	2540.9	2531.2
70°	2831.5	2845.6	2922.9	3159.8	2840.4	2681.9	2482.6	2588.7	2595.7	2719.3	2733.3
71°	2855.1	2876.0	2957.8	3164.1	2882.0	2728.1	2537.4	2642.8	2622.7	2755.0	2769.7
72.5°	2785.5	2805.4	2912.6	3082.3	2899.5	2749.7	2617.4	2681.0	2602.7	2727.2	2727.2
75°	2364.2	2364.2	2514.7	2520.9	2646.1	2650.4	2671.4	2615.8	2370.3	2378.9	2339.7
77.5°	1475.5	1491.0	1648.6	1519.8	1926.3	2248.4	2468.6	2229.2	1815.7	1647.9	1519.8
80°	560.5	553.6	736.4	562.2	1023.7	1518.0	1858.5	1524.2	962.8	634.6	476.1
82.5°	128.8	164.5	228.1	221.2	341.3	670.2	1032.3	677.2	308.9	240.2	185.4
85°	63.5	67.1	114.1	121.0	135.9	183.7	342.1	210.7	158.5	157.6	115.8
87.5°	26.1	30.5	63.5	61.9	60.9	76.5	69.6	98.4	101.0	107.1	67.9
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°	2.6
2.5°	2.6
5°	2.6
7.5°	4.3
10°	18.2
12.5°	145.3
15°	183.7
17.5°	275.2
20°	357.7
22.5°	449.2
25°	534.4
27.5°	638.1
30°	736.4
32.5°	786.8
35°	826.0
37.5°	874.8
40°	937.6
42.5°	1022.8
45°	1117.6
47.5°	1223.0
50°	1344.9
52.5°	1473.7
55°	1612.9
57.5°	1779.3
60°	1934.9
62.5°	2129.2
65°	2329.3
67.5°	2528.6
70°	2721.1
71°	2764.5
72.5°	2710.5
75°	2331.0
77.5°	1492.9
80°	452.7
82.5°	173.3
85°	110.5
87.5°	63.5
90°	0.0

(END OF REPORT)