

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: P239404

Luminaire Tested: **UTLD-AF24-80-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239404
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-AF24-80-D-U-5WQ
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 8333 lumens
Efficiency: N/A
Efficacy: 100.4 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): 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



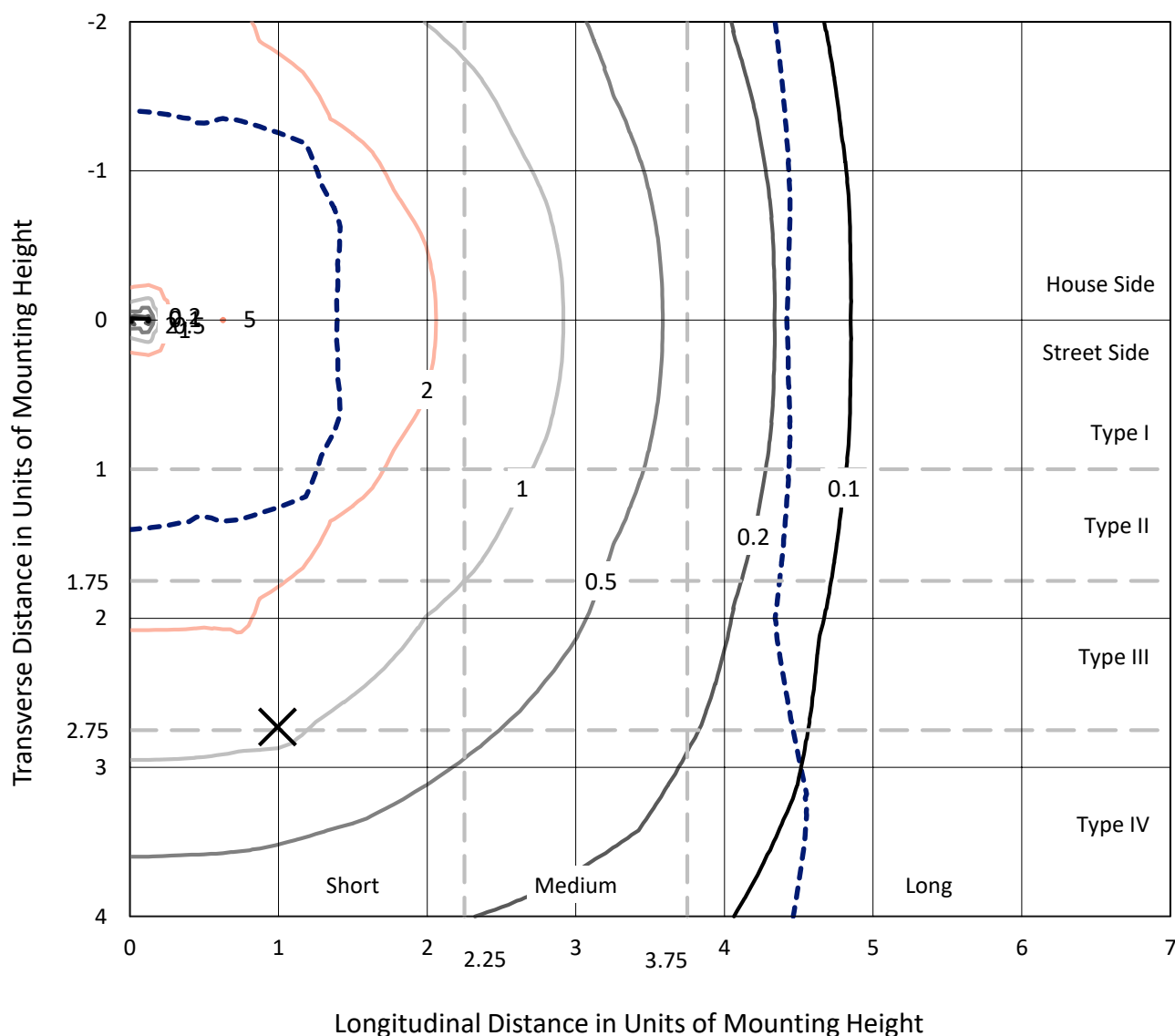
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

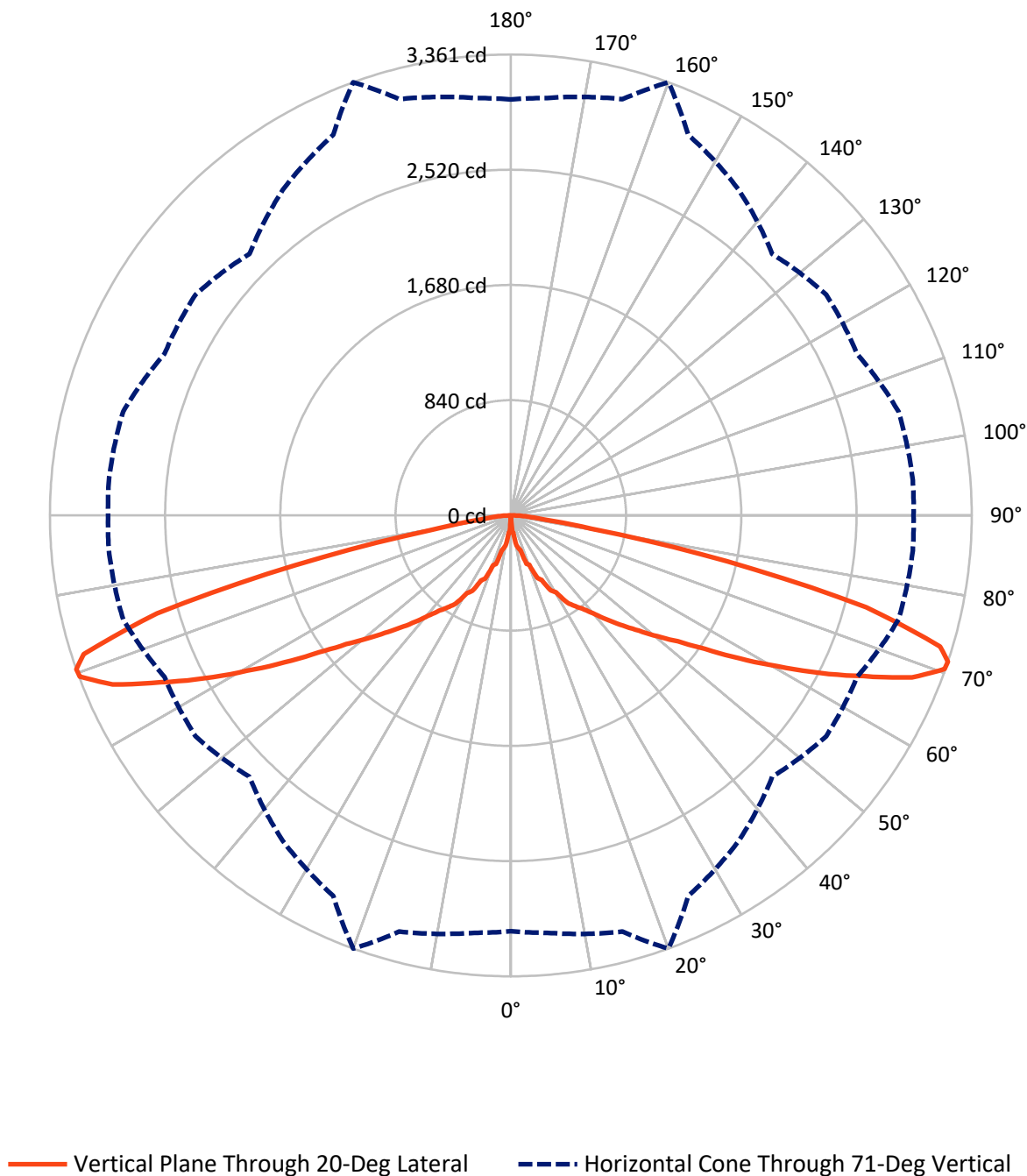


Based on 10 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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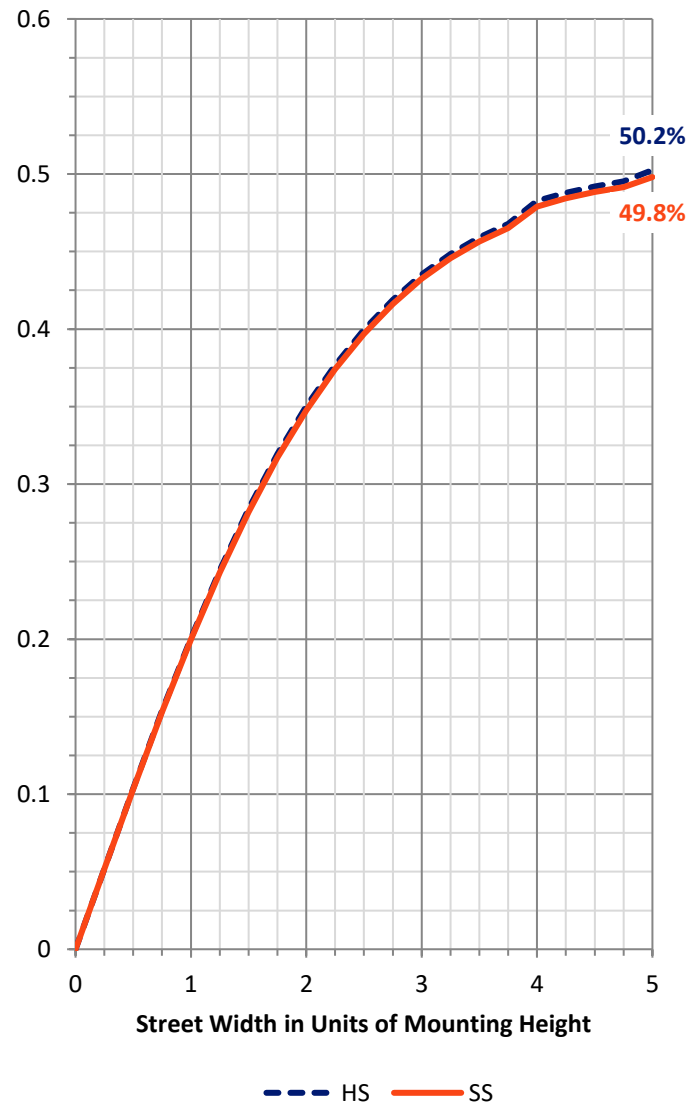
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4166.5	0.0	4166.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4166.5	0.0	4166.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8333.0	0.0	8333.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.1
10°-20°	68.8	0.8
20°-30°	233.1	2.8
30°-40°	475.1	5.7
40°-50°	813.6	9.8
50°-60°	1433.4	17.2
60°-70°	2441.1	29.3
70°-80°	2525.0	30.3
80°-90°	337.3	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°	8333.0	100.0
0°-180°	8333.0	100.0

Coefficient of Utilization



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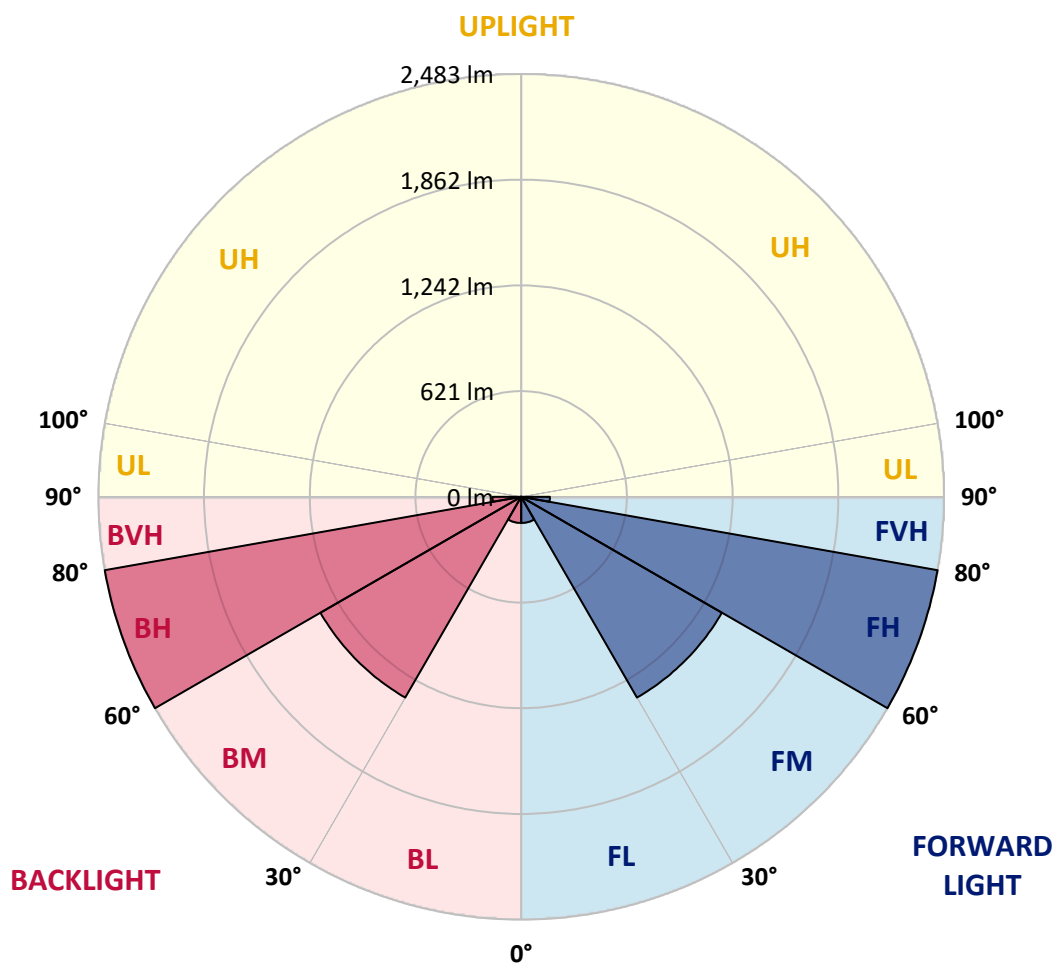
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	153.7	1.8			
FM	(30°-60°)	1361.0	16.3			
FH	(60°-80°)	2483.1	29.8			G2/5000
FVH	(80°-90°)	168.7	2.0			G2/225
BL	(0°-30°)	153.7	1.8	B1/500		
BM	(30°-60°)	1361.0	16.3	B2/2500		
BH	(60°-80°)	2483.1	29.8	B3/2500		G2/5000
BVH	(80°-90°)	168.7	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°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
2.5°	18.5	17.6	16.6	30.5	15.7	12.9	6.5	3.7	2.8	2.8	2.8
5°	65.6	65.6	65.6	125.7	64.7	62.9	54.5	48.1	12.9	3.7	2.8
7.5°	114.6	114.6	88.8	127.6	77.7	66.6	63.8	61.9	49.9	10.2	4.6
10°	183.0	182.1	176.6	219.1	169.2	126.7	76.7	64.7	57.3	31.4	19.4
12.5°	196.9	195.1	190.4	243.1	184.0	179.3	138.7	95.2	127.6	190.4	161.8
15°	295.8	297.7	261.6	264.4	232.0	189.5	208.0	245.9	204.3	219.1	186.7
17.5°	325.4	323.6	317.1	370.7	304.2	254.2	282.9	288.4	245.9	287.5	293.1
20°	404.0	398.5	373.5	384.6	324.5	355.0	331.9	337.4	379.0	371.6	378.1
22.5°	468.7	467.8	455.8	495.5	405.8	399.4	380.0	411.4	418.8	405.8	466.9
25°	532.5	527.0	475.2	521.4	461.3	459.5	453.9	450.2	497.4	540.8	570.4
27.5°	605.5	602.8	584.3	617.6	537.1	490.0	492.7	524.2	552.8	567.6	664.7
30°	675.8	674.9	612.9	651.8	596.3	560.2	542.7	572.3	625.9	716.5	775.6
32.5°	773.8	770.1	726.6	759.9	649.0	613.9	600.9	622.2	698.9	743.3	806.1
35°	880.1	876.4	786.7	813.5	710.9	661.9	637.9	686.9	717.4	784.0	855.1
37.5°	935.6	929.1	882.9	869.9	803.4	722.9	689.7	720.2	760.9	835.7	907.8
40°	1001.2	998.4	960.5	947.6	859.8	780.3	730.3	764.5	821.9	896.7	979.0
42.5°	1079.8	1077.9	1043.7	1044.7	933.7	852.4	780.3	829.3	889.4	988.3	1079.8
45°	1175.0	1168.5	1145.4	1146.4	1028.0	931.9	851.4	915.2	960.5	1077.0	1182.4
47.5°	1282.3	1281.3	1255.4	1255.4	1123.2	1025.3	936.5	1023.4	1073.3	1211.1	1292.4
50°	1405.2	1403.4	1384.9	1384.9	1248.1	1126.9	1039.1	1143.6	1198.1	1331.3	1420.9
52.5°	1540.2	1539.3	1534.6	1524.5	1386.7	1269.3	1168.5	1287.8	1335.0	1483.8	1561.5
55°	1701.1	1713.1	1709.4	1716.8	1568.8	1445.9	1325.7	1454.2	1505.1	1654.8	1714.0
57.5°	1905.4	1901.7	1920.2	1967.3	1782.4	1671.5	1523.5	1669.6	1688.1	1829.6	1885.0
60°	2092.1	2096.7	2132.8	2232.6	2004.3	1928.5	1759.3	1898.9	1899.8	2020.9	2062.5
62.5°	2291.8	2300.1	2362.1	2531.2	2238.2	2188.3	2017.2	2124.5	2115.2	2220.6	2262.2
65°	2516.4	2527.5	2611.7	2826.1	2498.9	2436.9	2259.4	2345.4	2342.6	2483.2	2479.5
67.5°	2789.2	2803.0	2878.8	3154.3	2808.6	2669.0	2463.7	2568.2	2559.0	2698.6	2688.4
70°	3007.3	3022.1	3104.4	3355.9	3016.6	2848.3	2636.6	2749.4	2756.8	2888.1	2902.9
71°	3032.3	3054.5	3141.4	3360.5	3061.0	2897.3	2694.9	2806.7	2785.5	2926.0	2941.7
72.5°	2958.3	2979.6	3093.3	3273.6	3079.5	2920.4	2779.9	2847.4	2764.2	2896.4	2896.4
75°	2510.9	2510.9	2670.8	2677.3	2810.4	2815.1	2837.2	2778.1	2517.4	2526.6	2485.0
77.5°	1567.0	1583.6	1751.0	1614.1	2045.9	2387.9	2621.8	2367.6	1928.5	1750.0	1614.1
80°	595.4	588.0	782.1	597.2	1087.2	1612.3	1973.8	1618.8	1022.5	673.9	505.7
82.5°	136.8	174.7	242.2	234.8	362.4	711.9	1096.4	719.2	328.2	255.2	196.9
85°	67.5	71.2	121.1	128.5	144.2	195.1	363.3	223.7	168.3	167.3	123.0
87.5°	27.7	32.4	67.5	65.6	64.7	81.4	74.0	104.5	107.2	113.7	72.1
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):

	90°
0°	2.8
2.5°	2.8
5°	2.8
7.5°	4.6
10°	19.4
12.5°	154.4
15°	195.1
17.5°	292.1
20°	380.0
22.5°	477.0
25°	567.6
27.5°	677.6
30°	782.1
32.5°	835.7
35°	877.3
37.5°	929.1
40°	995.7
42.5°	1086.3
45°	1187.0
47.5°	1298.9
50°	1428.3
52.5°	1565.2
55°	1713.1
57.5°	1889.6
60°	2055.1
62.5°	2261.3
65°	2473.9
67.5°	2685.6
70°	2889.9
71°	2936.2
72.5°	2878.8
75°	2475.8
77.5°	1585.5
80°	480.7
82.5°	184.0
85°	117.4
87.5°	67.5
90°	0.0

(END OF REPORT)