

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: P239401

Luminaire Tested: **UTLD-AF24-50-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239401
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-AF24-50-D-U-5WQ
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 670mA 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: 5855 lumens
Efficiency: N/A
Efficacy: 108.4 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): 54
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

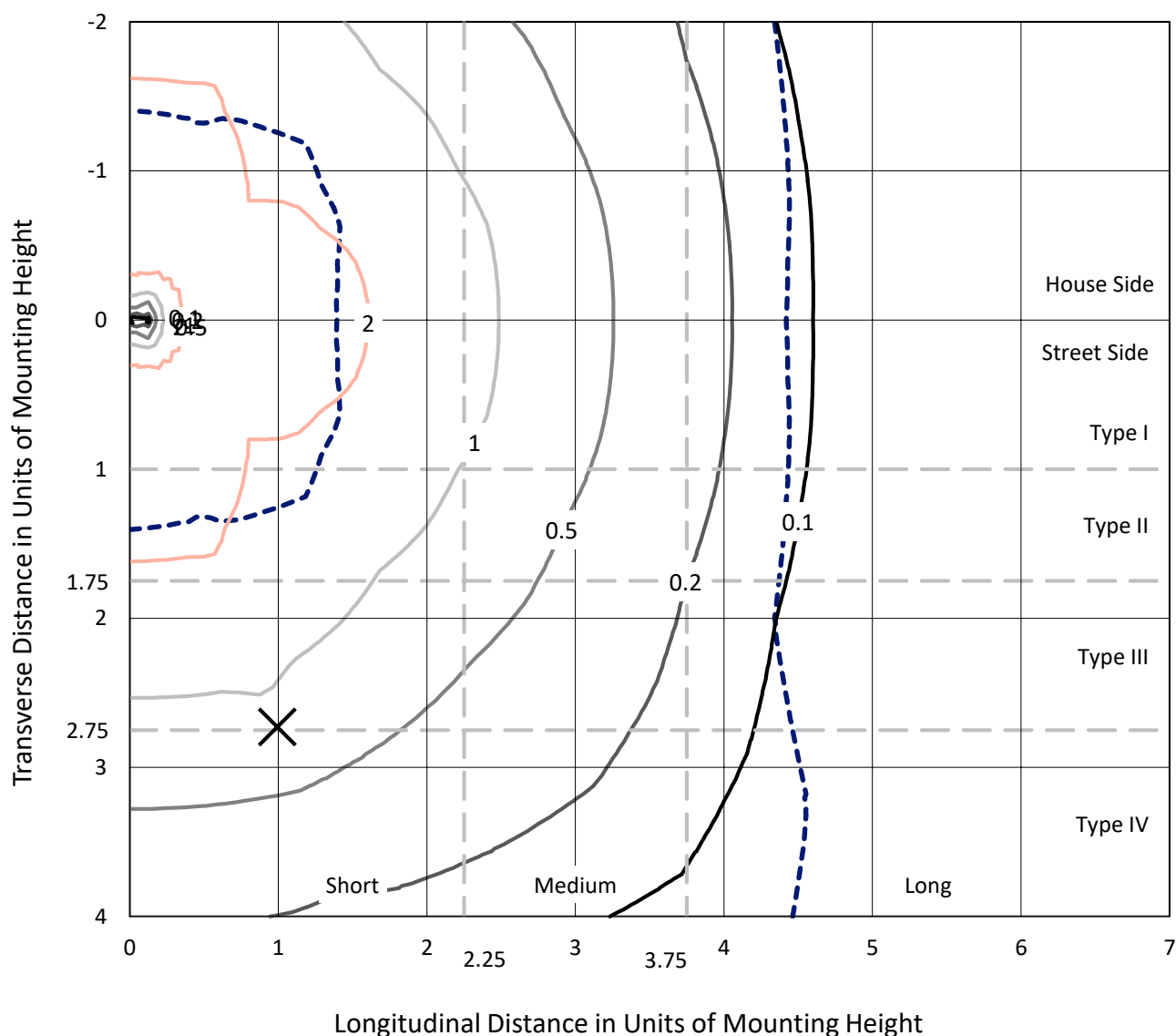


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

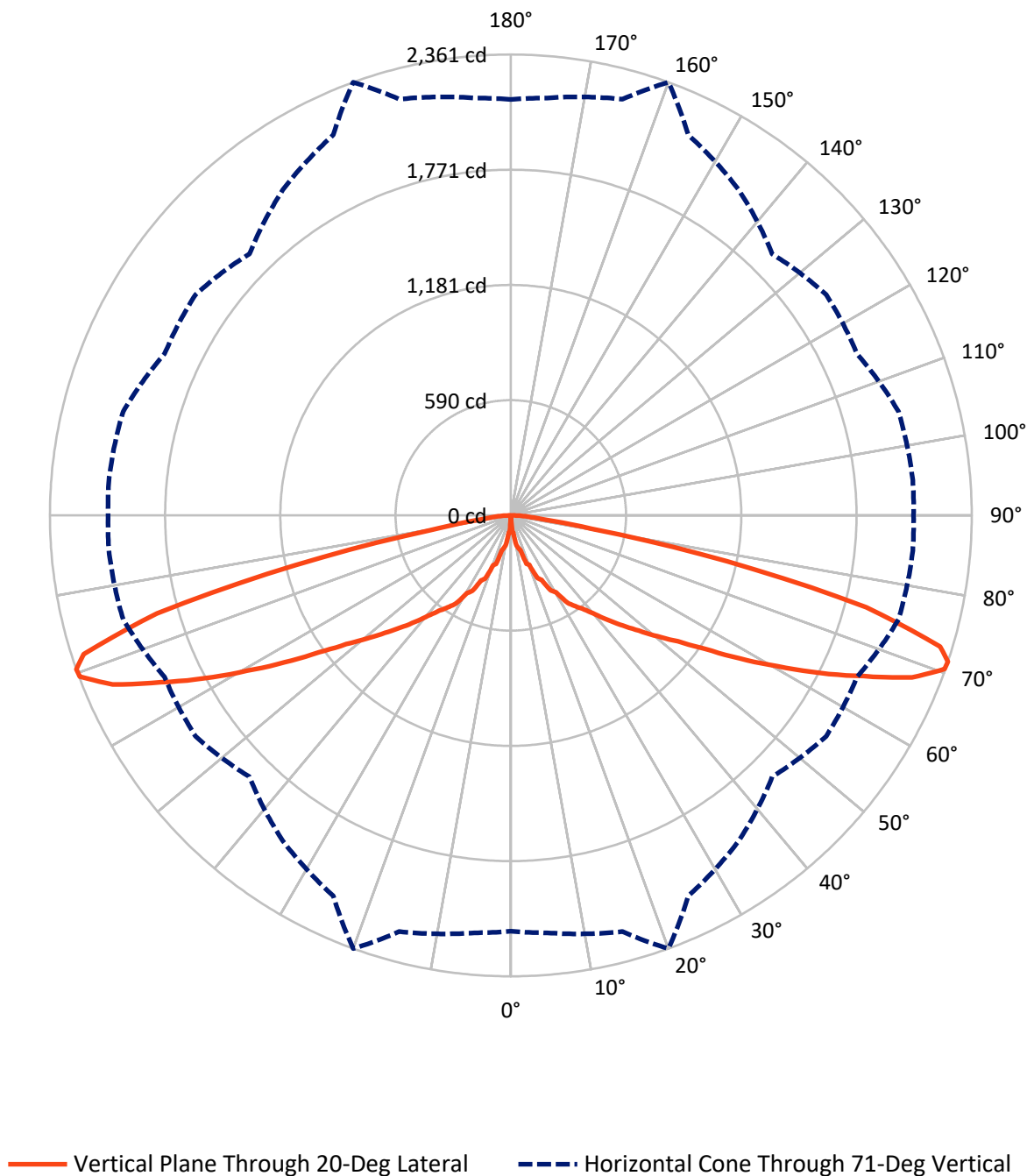


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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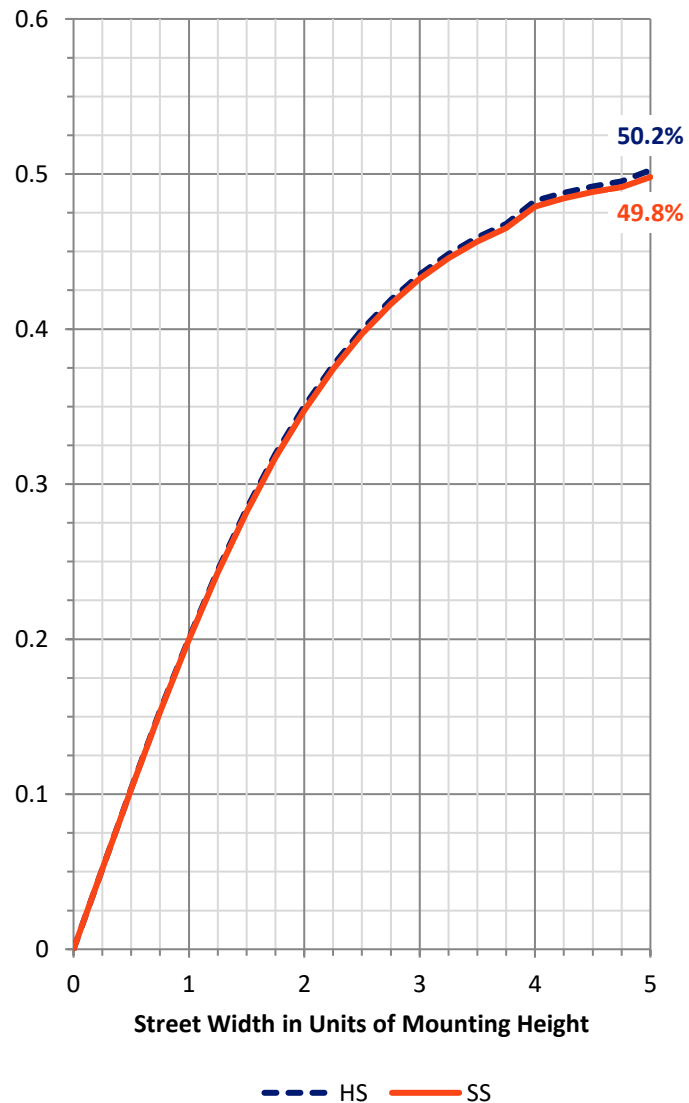
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2927.5	0.0	2927.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2927.5	0.0	2927.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5855.0	0.0	5855.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.1
10°-20°	48.4	0.8
20°-30°	163.8	2.8
30°-40°	333.8	5.7
40°-50°	571.7	9.8
50°-60°	1007.1	17.2
60°-70°	1715.2	29.3
70°-80°	1774.1	30.3
80°-90°	237.0	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°	5855.0	100.0
0°-180°	5855.0	100.0

Coefficient of Utilization



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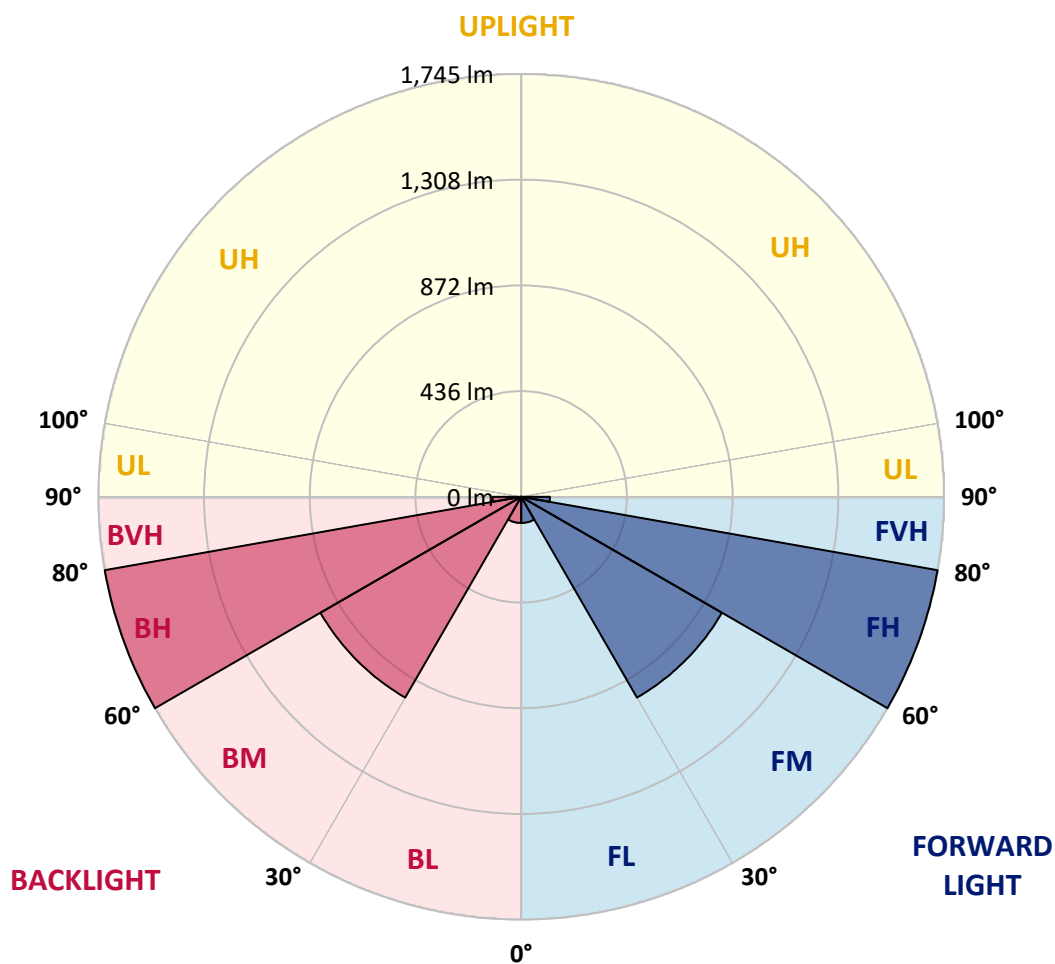
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	108.0	1.8			
FM	(30°-60°)	956.3	16.3			
FH	(60°-80°)	1744.7	29.8			G1/1800
FVH	(80°-90°)	118.5	2.0			G2/225
BL	(0°-30°)	108.0	1.8	B0/110		
BM	(30°-60°)	956.3	16.3	B1/1000		
BH	(60°-80°)	1744.7	29.8	B3/2500		G1/1800
BVH	(80°-90°)	118.5	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°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
2.5°	13.0	12.3	11.7	21.4	11.0	9.1	4.5	2.6	1.9	1.9	1.9
5°	46.1	46.1	46.1	88.3	45.5	44.2	38.3	33.8	9.1	2.6	1.9
7.5°	80.5	80.5	62.4	89.6	54.6	46.8	44.8	43.5	35.1	7.1	3.2
10°	128.6	128.0	124.1	153.9	118.9	89.0	53.9	45.5	40.3	22.1	13.6
12.5°	138.4	137.1	133.8	170.8	129.3	126.0	97.4	66.9	89.6	133.8	113.7
15°	207.9	209.2	183.8	185.8	163.0	133.2	146.2	172.8	143.6	153.9	131.2
17.5°	228.6	227.3	222.8	260.5	213.7	178.6	198.8	202.7	172.8	202.0	205.9
20°	283.9	280.0	262.4	270.2	228.0	249.4	233.2	237.1	266.3	261.1	265.7
22.5°	329.3	328.7	320.2	348.2	285.2	280.6	267.0	289.1	294.3	285.2	328.0
25°	374.2	370.3	333.9	366.4	324.1	322.8	318.9	316.3	349.5	380.0	400.8
27.5°	425.5	423.5	410.5	433.9	377.4	344.3	346.2	368.3	388.4	398.8	467.0
30°	474.8	474.2	430.7	457.9	419.0	393.6	381.3	402.1	439.8	503.4	545.0
32.5°	543.7	541.1	510.6	533.9	456.0	431.3	422.2	437.2	491.1	522.3	566.4
35°	618.4	615.8	552.8	571.6	499.5	465.1	448.2	482.6	504.1	550.8	600.9
37.5°	657.4	652.8	620.3	611.2	564.5	508.0	484.6	506.0	534.6	587.2	637.9
40°	703.5	701.5	674.9	665.8	604.1	548.2	513.2	537.2	577.5	630.1	687.9
42.5°	758.7	757.4	733.4	734.0	656.1	598.9	548.2	582.7	624.9	694.4	758.7
45°	825.6	821.1	804.8	805.5	722.3	654.8	598.3	643.1	674.9	756.7	830.8
47.5°	901.0	900.3	882.1	882.1	789.2	720.4	658.0	719.1	754.1	850.9	908.1
50°	987.3	986.0	973.1	973.1	876.9	791.8	730.1	803.5	841.8	935.4	998.4
52.5°	1082.2	1081.5	1078.3	1071.1	974.4	891.9	821.1	904.8	938.0	1042.6	1097.1
55°	1195.2	1203.7	1201.1	1206.2	1102.3	1015.9	931.5	1021.8	1057.5	1162.7	1204.3
57.5°	1338.8	1336.2	1349.2	1382.3	1252.4	1174.4	1070.5	1173.1	1186.1	1285.5	1324.5
60°	1470.0	1473.2	1498.6	1568.7	1408.3	1355.0	1236.1	1334.2	1334.9	1420.0	1449.2
62.5°	1610.3	1616.1	1659.6	1778.5	1572.6	1537.5	1417.4	1492.7	1486.2	1560.3	1589.5
65°	1768.1	1775.9	1835.0	1985.7	1755.8	1712.3	1587.5	1648.0	1646.0	1744.7	1742.1
67.5°	1959.7	1969.5	2022.8	2216.3	1973.4	1875.3	1731.1	1804.5	1798.0	1896.1	1888.9
70°	2113.0	2123.4	2181.3	2357.9	2119.5	2001.3	1852.6	1931.8	1937.0	2029.3	2039.6
71°	2130.6	2146.2	2207.2	2361.2	2150.7	2035.7	1893.5	1972.1	1957.1	2055.9	2066.9
72.5°	2078.6	2093.6	2173.5	2300.1	2163.7	2052.0	1953.3	2000.7	1942.2	2035.1	2035.1
75°	1764.2	1764.2	1876.6	1881.1	1974.7	1977.9	1993.5	1952.0	1768.8	1775.3	1746.0
77.5°	1101.0	1112.7	1230.3	1134.1	1437.5	1677.8	1842.2	1663.5	1355.0	1229.6	1134.1
80°	418.3	413.1	549.5	419.6	763.9	1132.8	1386.8	1137.4	718.4	473.5	355.3
82.5°	96.1	122.8	170.2	165.0	254.6	500.2	770.4	505.4	230.6	179.3	138.4
85°	47.4	50.0	85.1	90.3	101.3	137.1	255.3	157.2	118.2	117.6	86.4
87.5°	19.5	22.7	47.4	46.1	45.5	57.2	52.0	73.4	75.3	79.9	50.7
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°	1.9
2.5°	1.9
5°	1.9
7.5°	3.2
10°	13.6
12.5°	108.5
15°	137.1
17.5°	205.3
20°	267.0
22.5°	335.2
25°	398.8
27.5°	476.1
30°	549.5
32.5°	587.2
35°	616.4
37.5°	652.8
40°	699.6
42.5°	763.2
45°	834.0
47.5°	912.6
50°	1003.6
52.5°	1099.7
55°	1203.7
57.5°	1327.7
60°	1444.0
62.5°	1588.8
65°	1738.2
67.5°	1887.0
70°	2030.6
71°	2063.0
72.5°	2022.8
75°	1739.5
77.5°	1114.0
80°	337.8
82.5°	129.3
85°	82.5
87.5°	47.4
90°	0.0

(END OF REPORT)