

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: P239344

Luminaire Tested: **UTLD-AF24-20-D-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-42-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-20-D-U-T2U-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
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: 1647 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

Input Watts (W): 21
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



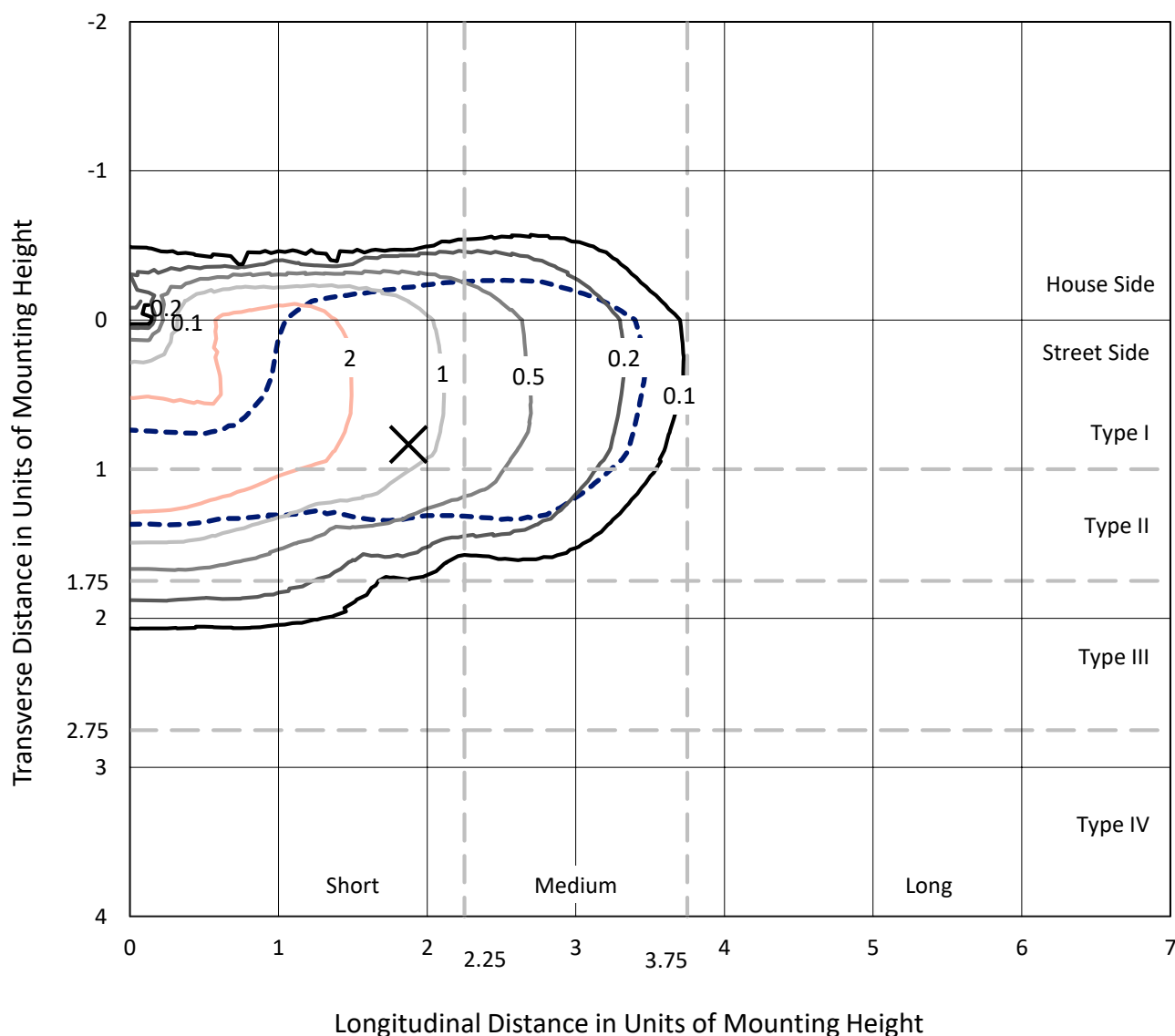
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

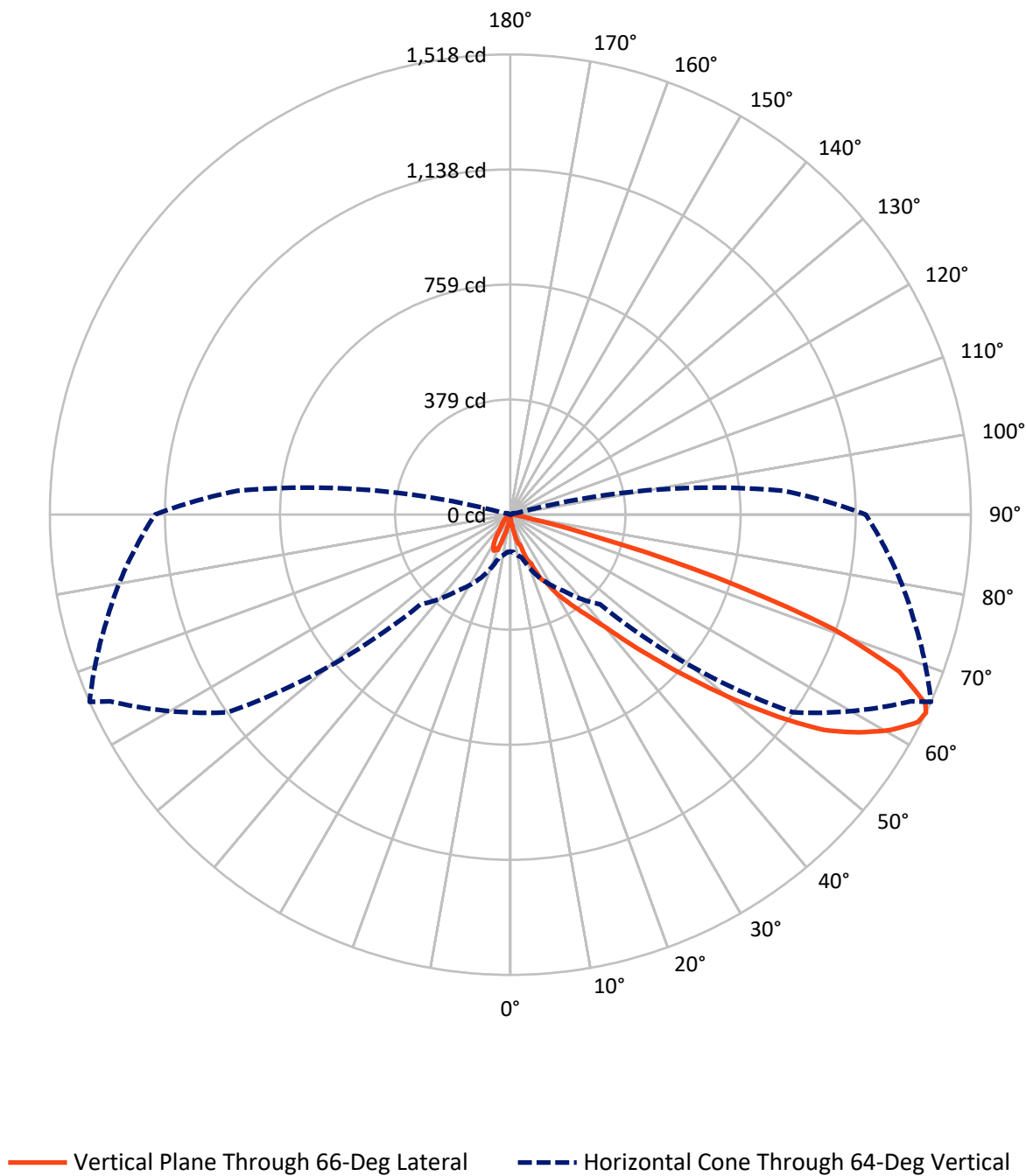


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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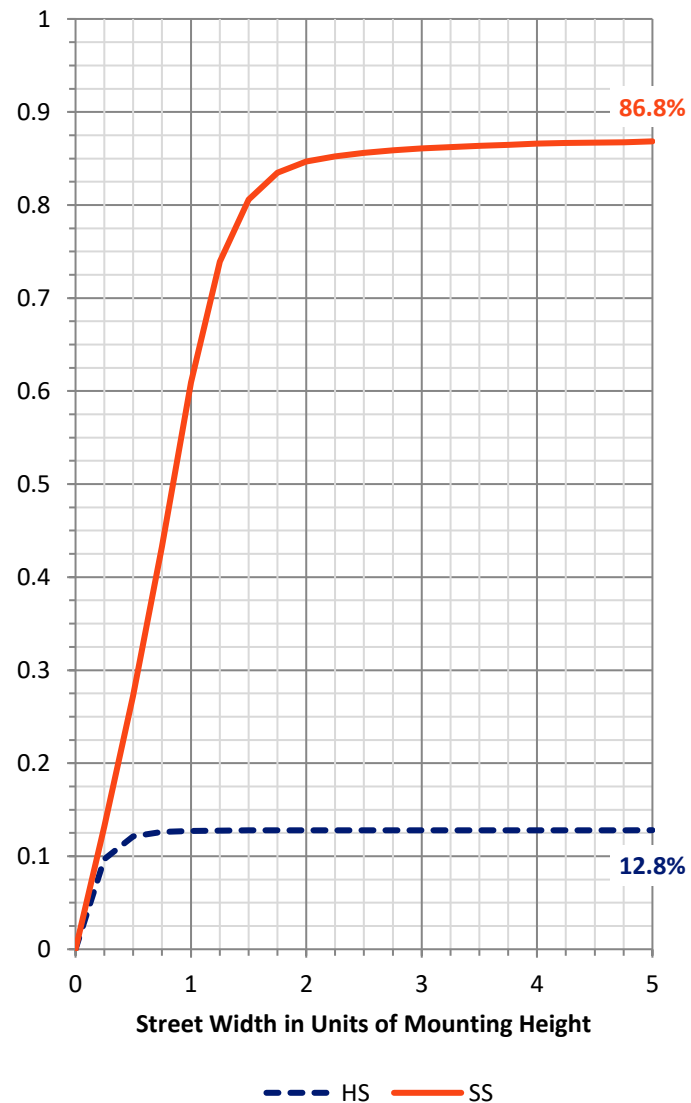
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	213.4	0.0	213.4
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	1433.6	0.0	1433.6
	% Fixture	87.0	0.0	87.0
Total	Lumens	1647.0	0.0	1647.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.1
10°-20°	21.5	1.3
20°-30°	66.8	4.1
30°-40°	167.8	10.2
40°-50°	363.9	22.1
50°-60°	492.7	29.9
60°-70°	387.3	23.5
70°-80°	137.0	8.3
80°-90°	8.2	0.5
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°	1647.0	100.0
0°-180°	1647.0	100.0

Coefficient of Utilization



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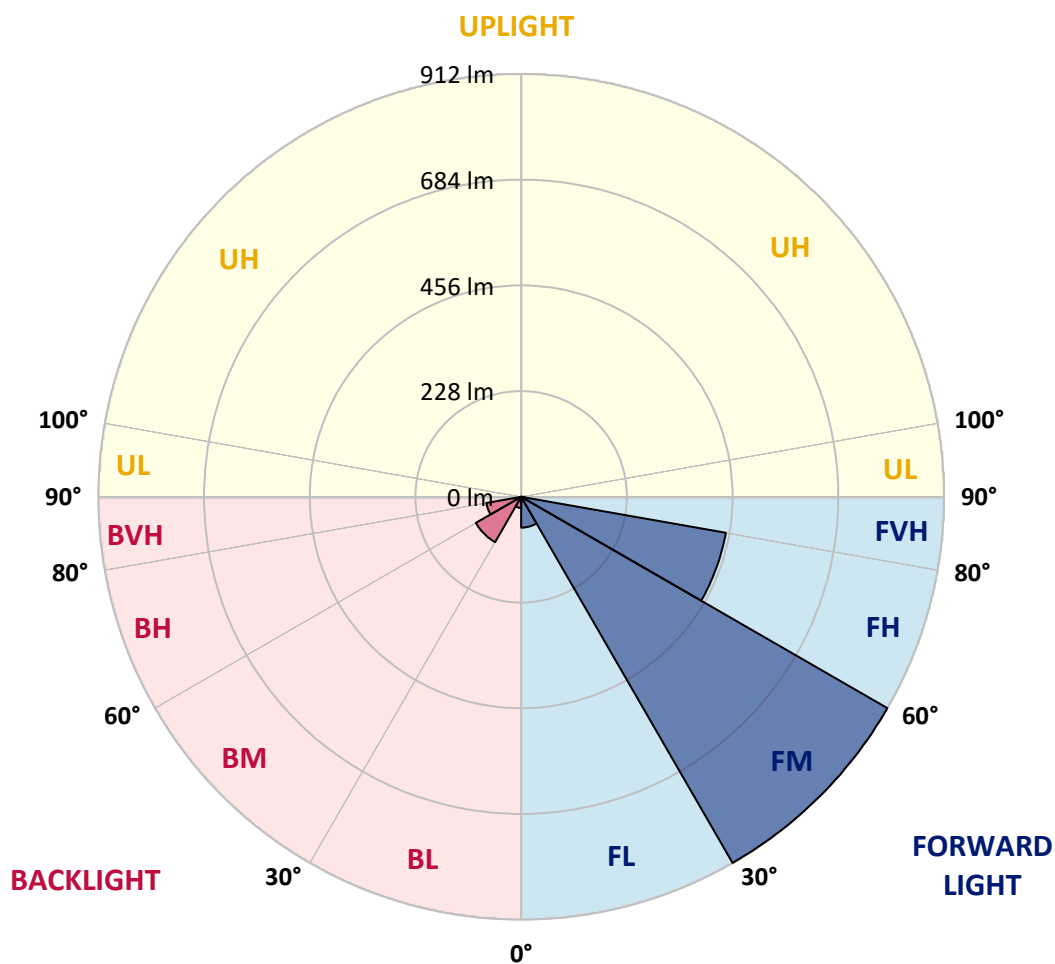
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	66.4	4.0			
FM	(30°-60°)	911.6	55.3			
FH	(60°-80°)	448.0	27.2			G0/660
FVH	(80°-90°)	7.7	0.5			G0/10
BL	(0°-30°)	23.8	1.4	B0/110		
BM	(30°-60°)	112.7	6.8	B0/220		
BH	(60°-80°)	76.3	4.6	B0/110		G0/110
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	6.1	5.8	5.0	3.9	1.4	0.8	0.0	0.0	0.0	0.0	0.0
5°	49.5	49.8	50.1	50.1	50.1	49.8	18.9	1.4	1.1	0.0	0.0
7.5°	48.1	48.4	48.4	48.4	48.7	48.7	48.7	47.0	38.7	0.8	0.0
10°	90.9	91.2	91.8	66.8	49.8	47.8	47.8	38.9	37.5	5.0	1.9
12.5°	89.6	89.8	90.4	90.7	91.2	60.6	50.6	69.5	74.3	96.5	63.1
15°	103.5	108.2	97.6	91.5	91.5	85.9	101.8	98.5	98.7	100.4	64.8
17.5°	135.5	135.2	136.3	137.4	100.4	126.0	132.1	103.2	104.3	117.1	119.0
20°	140.2	140.7	139.3	141.6	166.0	132.4	132.1	157.4	156.3	156.6	141.0
22.5°	190.8	191.4	193.3	160.5	173.6	163.8	172.4	175.8	175.8	164.7	166.0
25°	205.3	204.1	206.1	203.0	204.4	198.0	186.3	224.5	235.0	224.7	223.6
27.5°	285.1	282.6	276.7	226.4	222.5	210.3	245.6	251.7	252.0	250.0	259.2
30°	337.7	338.5	322.4	295.1	247.5	242.3	271.5	294.0	301.8	327.4	319.6
32.5°	503.7	493.4	447.5	350.4	305.7	285.1	302.1	345.4	340.2	357.1	357.1
35°	658.6	640.5	570.7	472.3	357.7	317.6	358.8	372.1	382.4	396.9	401.9
37.5°	813.3	806.0	733.2	599.4	460.9	371.3	405.0	430.6	429.4	448.4	458.1
40°	950.7	941.5	893.4	758.2	583.8	452.5	470.0	495.4	493.4	529.3	542.6
42.5°	1053.0	1046.9	1015.5	878.6	735.7	590.5	567.4	578.2	585.2	623.6	637.2
45°	1108.9	1098.1	1088.9	974.3	867.8	756.0	696.2	683.1	691.4	729.3	738.7
47.5°	1097.0	1083.6	1096.7	1031.3	984.0	900.6	865.8	822.2	816.0	864.7	846.9
50°	1003.5	995.2	1035.8	1031.3	1050.8	1020.5	1057.7	968.5	958.7	986.0	954.8
52.5°	838.0	838.0	900.9	942.0	1049.7	1106.4	1225.2	1124.5	1108.6	1103.6	1036.9
55°	667.8	672.2	731.2	790.7	958.2	1129.5	1365.1	1267.7	1253.8	1187.6	1098.6
57.5°	483.1	488.1	572.4	622.2	785.7	1050.5	1418.5	1360.4	1354.8	1254.9	1155.6
60°	283.1	295.1	384.4	468.1	567.4	845.8	1397.3	1424.0	1441.8	1309.2	1197.4
62.5°	166.9	171.9	203.0	317.4	392.2	575.5	1281.6	1455.8	1507.5	1355.1	1229.9
64°	121.8	124.3	146.6	229.7	307.1	418.0	1136.2	1455.8	1517.8	1379.8	1238.8
65°	99.6	100.7	116.3	183.8	259.8	319.9	999.6	1443.5	1504.1	1392.1	1236.9
67.5°	80.9	81.8	85.7	105.1	178.8	175.8	591.0	1335.3	1383.2	1405.4	1206.8
70°	72.9	73.7	80.4	82.0	132.1	117.1	190.5	1097.5	1129.8	1336.4	1142.9
72.5°	55.3	57.6	69.5	79.8	91.5	87.6	91.2	676.7	714.2	1017.7	975.1
75°	37.8	40.1	51.7	67.9	70.6	65.9	68.7	259.8	290.9	528.7	588.3
77.5°	24.2	24.5	32.3	49.2	63.1	45.1	52.0	73.1	85.1	179.1	183.3
80°	15.9	16.4	19.5	31.4	43.1	37.5	32.0	39.5	40.1	52.8	28.1
82.5°	9.7	9.5	12.8	19.5	26.4	31.7	19.7	25.6	26.7	31.2	12.0
85°	4.2	4.5	8.1	12.5	16.4	15.3	12.2	15.6	16.1	20.6	7.0
87.5°	1.7	1.7	4.7	7.0	7.2	7.2	7.5	8.3	8.3	12.8	4.5
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°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.3	0.3	0.0	0.0	1.1	25.6	36.7	36.7
10°	1.9	1.7	0.0	0.3	0.3	12.8	40.9	40.9	40.1	39.5	39.2
12.5°	62.6	72.0	69.0	29.8	23.1	36.4	38.7	34.2	30.6	28.9	28.4
15°	74.8	74.5	72.6	59.0	82.6	37.0	29.5	35.6	30.6	26.4	26.4
17.5°	124.6	118.2	98.7	80.1	74.8	50.1	29.8	20.3	16.7	15.6	15.6
20°	148.2	145.5	127.1	123.5	68.4	41.2	20.9	13.9	15.9	17.8	17.8
22.5°	182.2	180.8	133.5	117.7	68.1	25.0	16.7	16.7	16.4	15.6	15.6
25°	218.9	220.3	188.3	124.6	46.4	20.9	17.2	14.5	12.8	13.9	14.2
27.5°	267.0	232.0	189.7	114.9	31.7	19.5	14.7	13.9	13.6	13.1	13.1
30°	321.5	314.0	242.8	95.7	24.2	17.5	13.9	12.2	10.8	11.4	11.4
32.5°	359.1	336.0	238.4	72.3	20.9	15.3	12.0	10.3	10.6	10.8	10.6
35°	396.9	370.8	240.3	46.4	18.6	12.5	9.7	9.2	8.9	10.0	10.0
37.5°	450.6	417.5	236.7	29.2	15.6	10.3	8.3	8.1	8.3	8.6	8.6
40°	516.5	478.7	228.1	22.0	12.8	8.3	7.0	6.7	7.2	7.2	7.2
42.5°	595.5	545.4	205.5	19.2	10.8	6.7	5.6	5.6	6.1	6.1	6.1
45°	689.8	626.9	176.9	17.0	9.2	5.6	4.5	4.7	5.0	5.0	5.0
47.5°	793.5	716.5	140.5	14.7	7.8	4.5	3.6	3.6	3.9	3.9	3.9
50°	889.5	790.5	110.7	13.1	6.4	3.6	2.8	2.8	2.8	2.8	2.8
52.5°	960.1	839.1	80.7	11.4	5.6	2.8	1.9	1.9	1.9	1.9	1.9
55°	1017.7	871.4	58.4	9.7	4.5	2.2	1.4	1.1	1.4	1.1	1.1
57.5°	1068.3	891.7	42.0	8.1	3.6	1.4	0.6	0.6	0.6	0.6	0.6
60°	1114.2	902.5	31.2	6.7	3.1	0.8	0.6	0.3	0.3	0.0	0.0
62.5°	1155.9	906.4	23.6	5.3	2.5	0.6	0.3	0.0	0.0	0.0	0.0
64°	1171.2	902.8	20.3	4.7	2.2	0.3	0.3	0.0	0.0	0.0	0.0
65°	1175.9	894.2	18.4	4.2	1.9	0.3	0.3	0.0	0.0	0.0	0.0
67.5°	1161.5	855.0	13.6	3.3	1.7	0.3	0.3	0.0	0.0	0.0	0.0
70°	1105.0	781.0	10.0	2.8	1.1	0.0	0.3	0.0	0.0	0.0	0.0
72.5°	903.7	589.6	7.2	2.2	1.1	0.0	0.3	0.0	0.0	0.0	0.0
75°	542.6	248.7	5.3	1.7	1.1	0.0	0.6	0.0	0.0	0.0	0.0
77.5°	163.8	80.1	3.9	1.4	1.4	0.0	0.8	0.3	0.0	0.0	0.0
80°	22.0	12.0	2.2	1.1	1.4	0.0	1.1	0.3	0.0	0.0	0.0
82.5°	8.1	3.9	1.4	1.1	1.4	0.0	1.1	0.8	0.3	0.3	0.0
85°	3.1	2.2	1.1	0.8	1.7	0.0	1.4	0.8	0.3	0.3	0.0
87.5°	1.4	1.1	0.8	0.8	1.7	0.0	1.4	1.1	0.3	0.3	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)