

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: P266303

Luminaire Tested: **UTLD-AF24-30-D-U-T2U-7027-HSS**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-42-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-30-D-U-T2U-7027-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 375mA 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: 2003.2 lumens
Efficiency: N/A
Efficacy: 64.6 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): 31
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



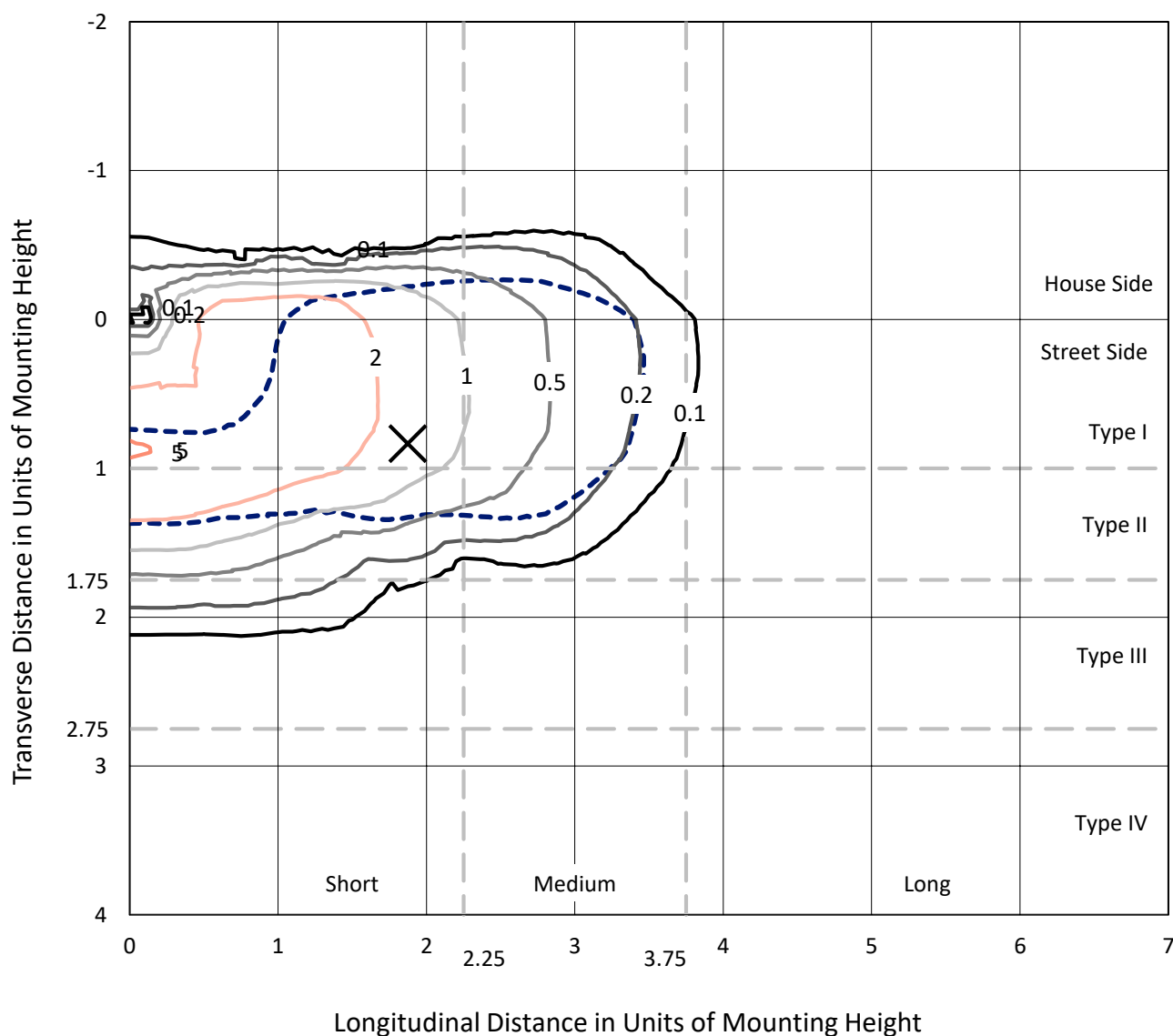
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

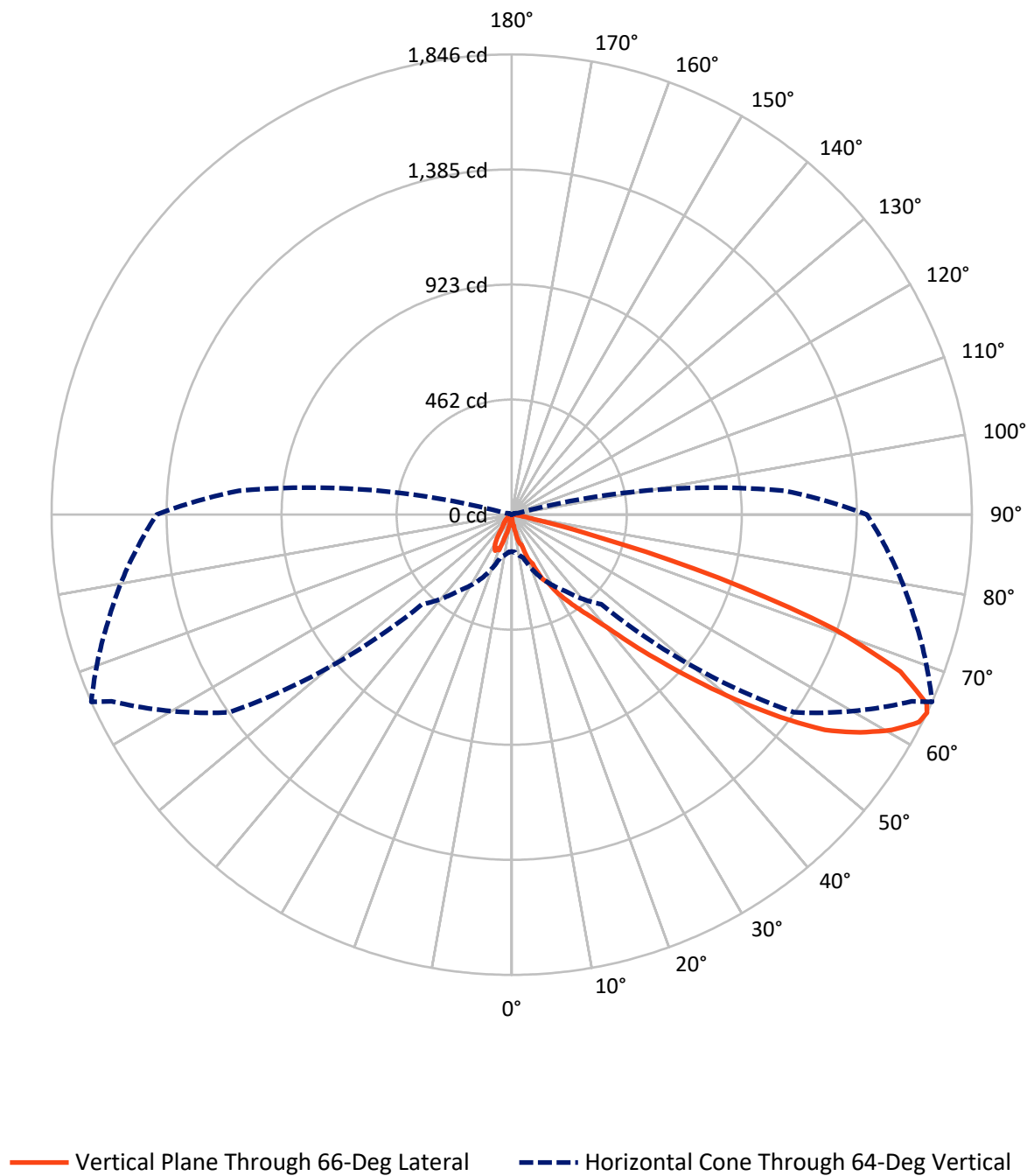


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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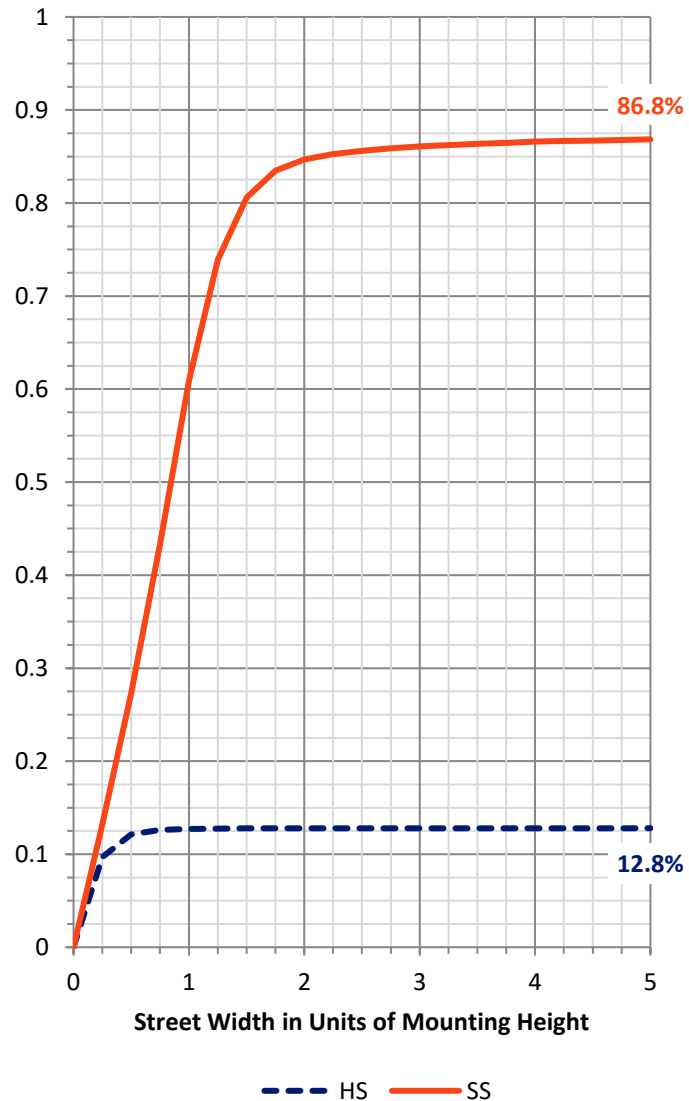
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	259.6	0.0	259.6
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	1743.6	0.0	1743.6
	% Fixture	87.0	0.0	87.0
Total	Lumens	2003.2	0.0	2003.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.1
10°-20°	26.2	1.3
20°-30°	81.3	4.1
30°-40°	204.0	10.2
40°-50°	442.6	22.1
50°-60°	599.2	29.9
60°-70°	471.0	23.5
70°-80°	166.6	8.3
80°-90°	10.0	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°	2003.2	100.0
0°-180°	2003.2	100.0

Coefficient of Utilization



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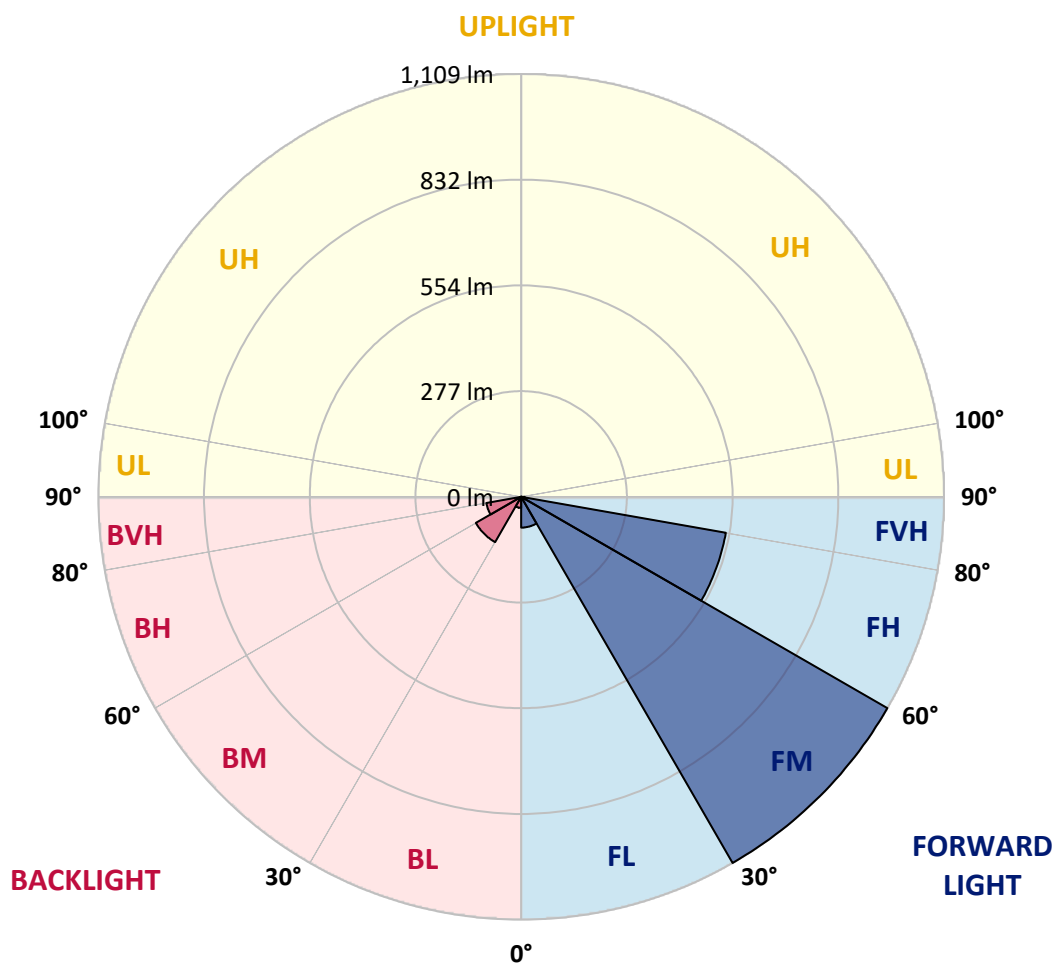
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	80.7	4.0			
FM	(30°-60°)	1108.7	55.3			
FH	(60°-80°)	544.8	27.2			G0/660
FVH	(80°-90°)	9.3	0.5			G0/10
BL	(0°-30°)	29.0	1.4	B0/110		
BM	(30°-60°)	137.1	6.8	B0/220		
BH	(60°-80°)	92.8	4.6	B0/110		G0/110
BVH	(80°-90°)	0.7	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°	7.5	7.0	6.1	4.8	1.6	1.0	0.0	0.0	0.0	0.0	0.0
5°	60.2	60.5	60.8	60.8	60.8	60.5	22.9	1.6	1.3	0.0	0.0
7.5°	58.5	58.8	58.8	58.8	59.2	59.2	59.2	57.1	47.0	1.0	0.0
10°	110.6	111.0	111.6	81.1	60.5	58.2	58.2	47.4	45.6	6.1	2.3
12.5°	109.0	109.2	110.0	110.3	111.0	73.8	61.5	84.6	90.3	117.4	76.7
15°	125.9	131.6	118.8	111.3	111.3	104.6	123.7	119.7	120.2	122.1	78.8
17.5°	164.7	164.4	165.7	167.2	122.1	153.3	160.6	125.6	126.9	142.4	144.7
20°	170.5	171.1	169.5	172.1	201.9	161.1	160.6	191.5	190.1	190.4	171.4
22.5°	232.0	232.8	235.0	195.2	211.1	199.2	209.8	213.7	213.7	200.2	201.9
25°	249.6	248.3	250.6	246.9	248.7	240.8	226.6	272.9	285.8	273.4	271.9
27.5°	346.7	343.7	336.5	275.4	270.6	255.7	298.6	306.1	306.5	304.2	315.2
30°	410.6	411.8	392.1	359.0	301.1	294.6	330.1	357.5	367.0	398.2	388.6
32.5°	612.6	600.1	544.4	426.2	371.8	346.7	367.3	420.1	413.7	434.4	434.4
35°	801.1	779.1	694.2	574.3	435.0	386.4	436.3	452.7	465.1	482.7	488.8
37.5°	989.2	980.4	891.7	729.1	560.5	451.6	492.5	523.6	522.4	545.4	557.2
40°	1156.3	1145.1	1086.6	922.2	710.1	550.4	571.7	602.6	600.1	643.7	660.0
42.5°	1280.8	1273.3	1235.1	1068.7	894.8	718.1	690.1	703.4	711.7	758.3	775.0
45°	1348.7	1335.6	1324.5	1185.0	1055.5	919.4	846.7	830.8	841.0	886.9	898.5
47.5°	1334.3	1318.0	1333.9	1254.4	1196.8	1095.4	1053.2	1000.0	992.5	1051.7	1030.0
50°	1220.5	1210.3	1259.8	1254.4	1278.1	1241.2	1286.6	1177.9	1166.1	1199.2	1161.2
52.5°	1019.2	1019.2	1095.8	1145.8	1276.8	1345.8	1490.2	1367.7	1348.4	1342.2	1261.1
55°	812.2	817.6	889.3	961.7	1165.5	1373.8	1660.2	1541.9	1525.1	1444.5	1336.1
57.5°	587.6	593.7	696.1	756.7	955.6	1277.7	1725.3	1654.6	1647.9	1526.3	1405.6
60°	344.4	359.0	467.5	569.3	690.1	1028.6	1699.6	1732.0	1753.8	1592.3	1456.3
62.5°	202.9	209.0	246.9	386.0	477.0	699.9	1558.7	1770.6	1833.5	1648.1	1495.9
64°	148.2	151.3	178.3	279.5	373.4	508.4	1382.0	1770.6	1846.0	1678.3	1506.7
65°	121.1	122.4	141.5	223.6	315.9	389.1	1215.8	1755.6	1829.5	1693.1	1504.3
67.5°	98.5	99.4	104.3	127.9	217.5	213.7	718.9	1624.1	1682.3	1709.4	1467.8
70°	88.7	89.7	97.7	99.8	160.6	142.4	231.8	1334.9	1374.0	1625.5	1389.9
72.5°	67.4	70.0	84.6	97.0	111.3	106.5	111.0	823.0	868.8	1237.8	1186.0
75°	46.1	48.7	62.9	82.6	85.9	80.2	83.5	315.9	353.8	643.0	715.5
77.5°	29.5	29.7	39.3	59.8	76.7	54.7	63.3	88.9	103.6	217.8	222.9
80°	19.3	19.9	23.6	38.2	52.5	45.6	38.8	48.0	48.7	64.3	34.1
82.5°	11.9	11.5	15.6	23.6	32.1	38.5	24.1	31.1	32.5	37.9	14.6
85°	5.1	5.4	9.8	15.2	19.9	18.7	14.9	19.0	19.7	25.1	8.4
87.5°	2.1	2.1	5.7	8.4	8.9	8.9	9.2	10.2	10.2	15.6	5.4
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	1.3	31.1	44.6	44.6
10°	2.3	2.1	0.0	0.3	0.3	15.6	49.8	49.8	48.7	48.0	47.7
12.5°	76.1	87.7	83.9	36.2	28.0	44.3	47.0	41.6	37.2	35.2	34.6
15°	91.0	90.6	88.4	71.8	100.5	44.9	35.8	43.3	37.2	32.1	32.1
17.5°	151.5	143.8	120.2	97.5	91.0	60.8	36.2	24.8	20.3	19.0	19.0
20°	180.3	177.0	154.6	150.1	83.3	50.0	25.4	16.9	19.3	21.6	21.6
22.5°	221.6	219.8	162.4	143.1	82.9	30.5	20.3	20.3	19.9	19.0	19.0
25°	266.3	268.0	229.0	151.5	56.6	25.4	21.0	17.5	15.6	16.9	17.2
27.5°	324.7	282.2	230.8	139.6	38.5	23.6	18.0	16.9	16.6	15.9	15.9
30°	391.0	381.9	295.4	116.4	29.5	21.3	16.9	14.9	13.1	13.8	13.8
32.5°	436.8	408.6	290.0	87.9	25.4	18.7	14.6	12.5	12.8	13.1	12.8
35°	482.7	450.9	292.3	56.6	22.6	15.2	11.9	11.1	10.8	12.1	12.1
37.5°	548.1	507.7	287.8	35.6	19.0	12.5	10.2	9.8	10.2	10.5	10.5
40°	628.3	582.2	277.3	26.7	15.6	10.2	8.4	8.2	8.9	8.9	8.9
42.5°	724.3	663.4	250.0	23.4	13.1	8.2	6.7	6.7	7.5	7.5	7.5
45°	838.9	762.5	215.1	20.7	11.1	6.7	5.4	5.7	6.1	6.1	6.1
47.5°	965.0	871.4	170.9	18.0	9.5	5.4	4.4	4.4	4.8	4.8	4.8
50°	1081.9	961.5	134.7	15.9	7.7	4.4	3.4	3.4	3.4	3.4	3.4
52.5°	1167.7	1020.7	98.2	13.8	6.7	3.4	2.3	2.3	2.3	2.3	2.3
55°	1237.8	1059.8	71.1	11.9	5.4	2.8	1.6	1.3	1.6	1.3	1.3
57.5°	1299.4	1084.6	51.1	9.8	4.4	1.6	0.7	0.7	0.7	0.7	0.7
60°	1355.2	1097.8	37.9	8.2	3.8	1.0	0.7	0.3	0.3	0.0	0.0
62.5°	1405.8	1102.5	28.7	6.4	3.1	0.7	0.3	0.0	0.0	0.0	0.0
64°	1424.5	1098.1	24.8	5.7	2.8	0.3	0.3	0.0	0.0	0.0	0.0
65°	1430.3	1087.6	22.3	5.1	2.3	0.3	0.3	0.0	0.0	0.0	0.0
67.5°	1412.7	1039.9	16.6	4.0	2.1	0.3	0.3	0.0	0.0	0.0	0.0
70°	1344.0	949.9	12.1	3.4	1.3	0.0	0.3	0.0	0.0	0.0	0.0
72.5°	1099.0	717.1	8.9	2.8	1.3	0.0	0.3	0.0	0.0	0.0	0.0
75°	660.0	302.4	6.4	2.1	1.3	0.0	0.7	0.0	0.0	0.0	0.0
77.5°	199.2	97.5	4.8	1.6	1.6	0.0	1.0	0.3	0.0	0.0	0.0
80°	26.7	14.6	2.8	1.3	1.6	0.0	1.3	0.3	0.0	0.0	0.0
82.5°	9.8	4.8	1.6	1.3	1.6	0.0	1.3	1.0	0.3	0.3	0.0
85°	3.8	2.8	1.3	1.0	2.1	0.0	1.6	1.0	0.3	0.3	0.0
87.5°	1.6	1.3	1.0	1.0	2.1	0.0	1.6	1.3	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)