

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: P239336

Luminaire Tested: **UTLD-AF24-30-D-U-T2U-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239336
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-AF24-30-D-U-T2U-7030-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 2041 lumens
Efficiency: N/A
Efficacy: 65.8 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

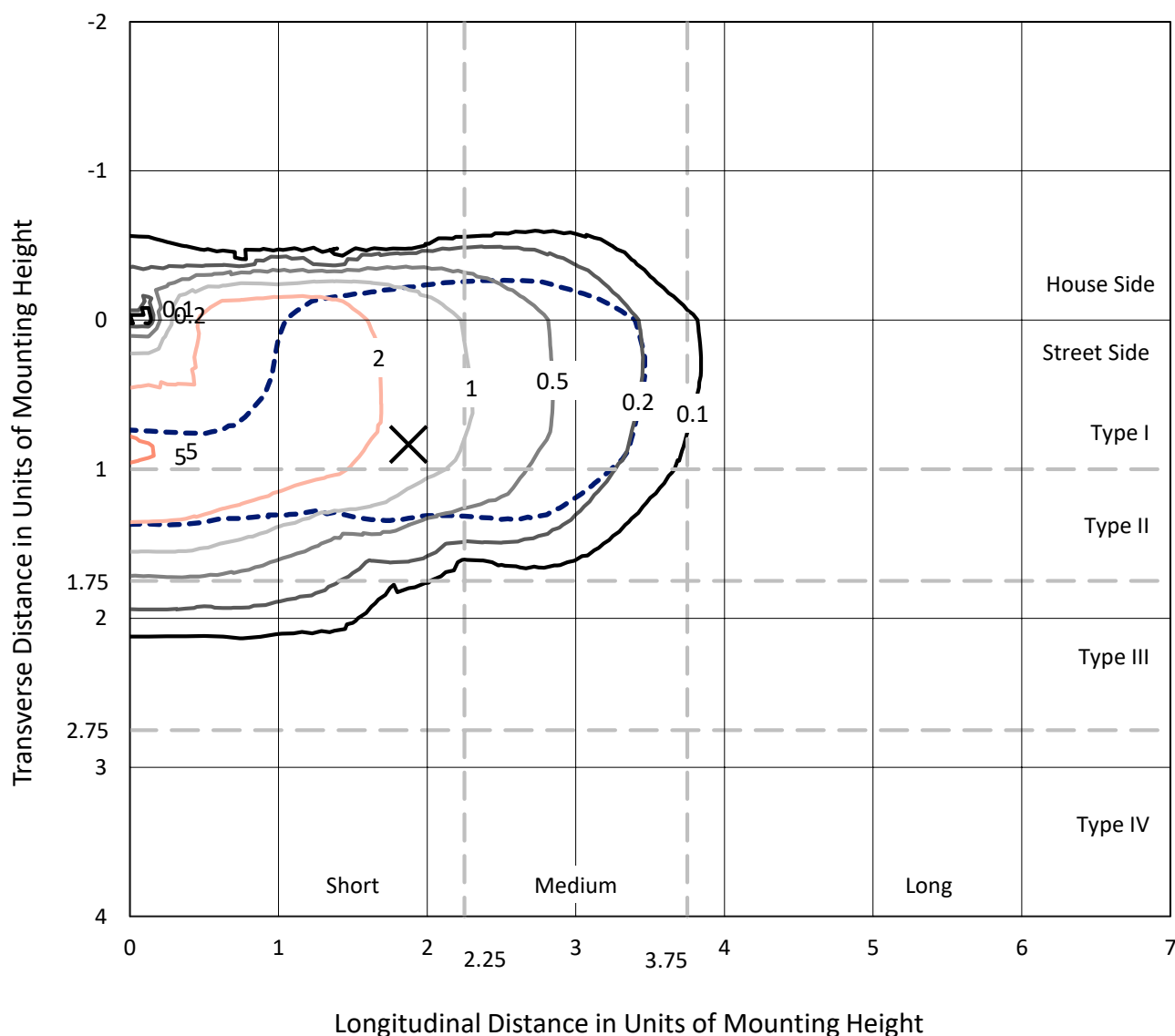


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

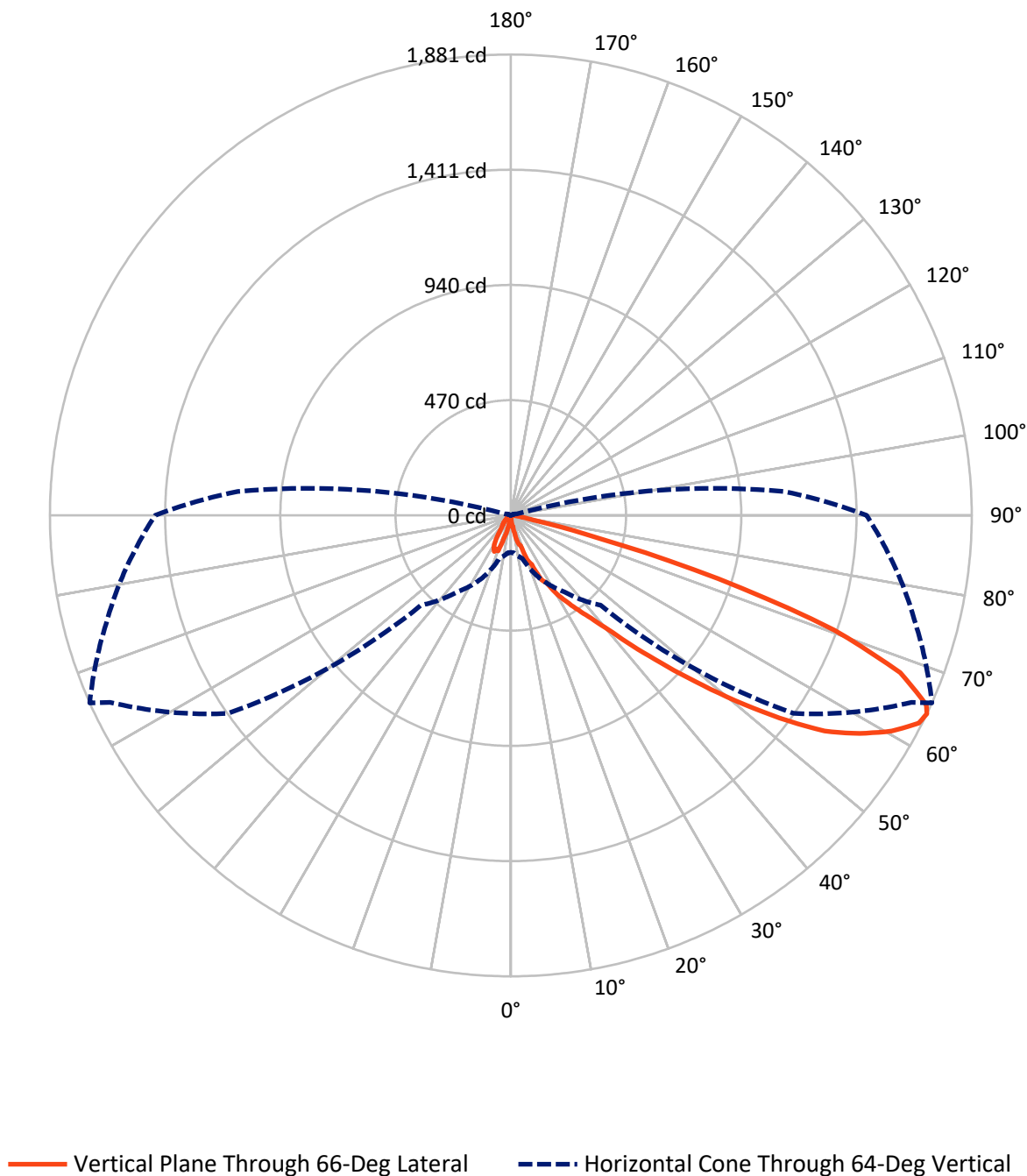


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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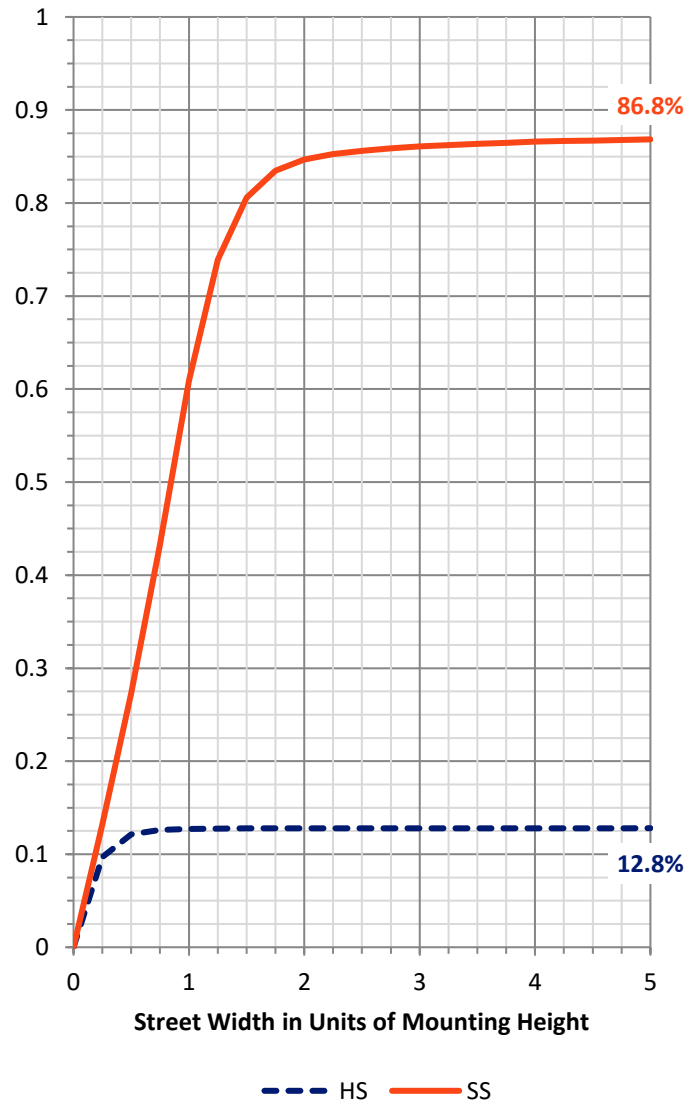
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	264.5	0.0	264.5
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	1776.5	0.0	1776.5
	% Fixture	87.0	0.0	87.0
Total	Lumens	2041.0	0.0	2041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.1
10°-20°	26.6	1.3
20°-30°	82.8	4.1
30°-40°	207.9	10.2
40°-50°	450.9	22.1
50°-60°	610.5	29.9
60°-70°	479.9	23.5
70°-80°	169.7	8.3
80°-90°	10.2	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°	2041.0	100.0
0°-180°	2041.0	100.0

Coefficient of Utilization



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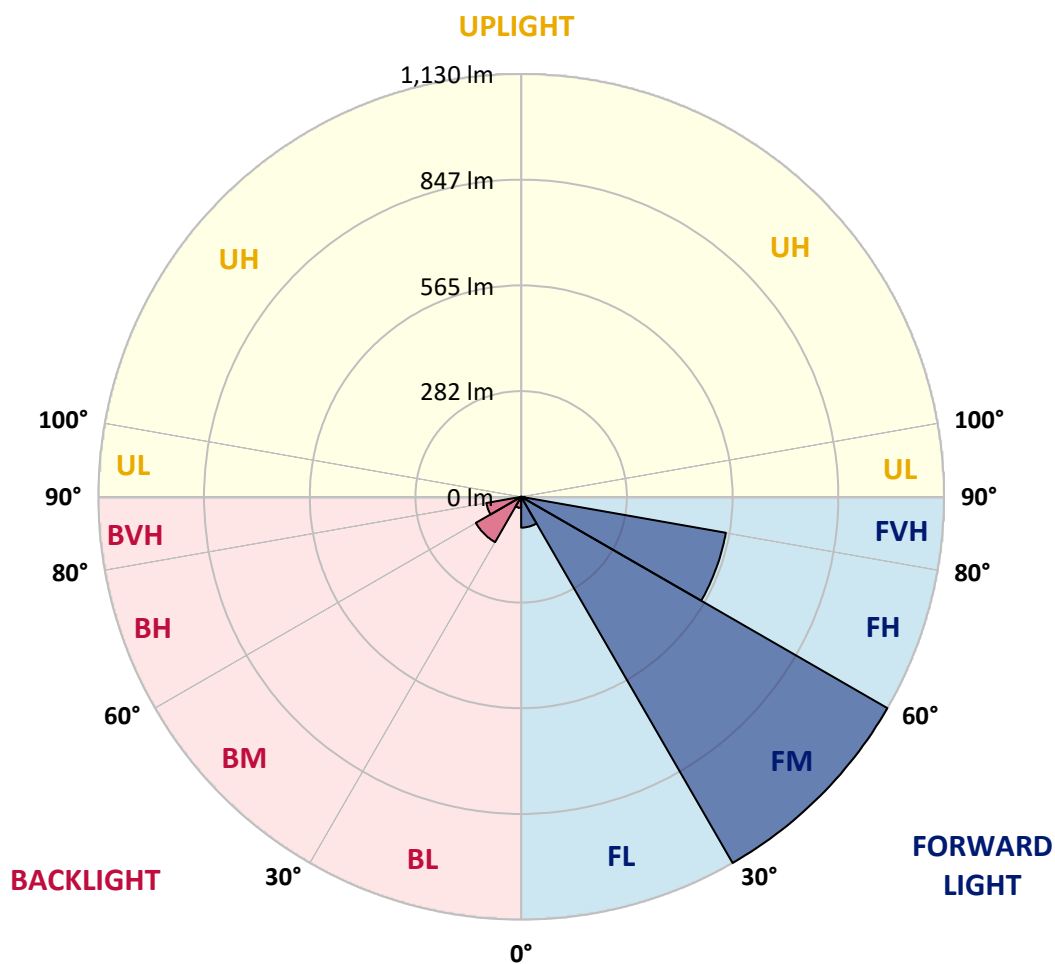
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	82.2	4.0			
FM	(30°-60°)	1129.6	55.3			
FH	(60°-80°)	555.1	27.2			G0/660
FVH	(80°-90°)	9.5	0.5			G0/10
BL	(0°-30°)	29.5	1.4	B0/110		
BM	(30°-60°)	139.7	6.8	B0/220		
BH	(60°-80°)	94.5	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°	7.6	7.2	6.2	4.8	1.7	1.0	0.0	0.0	0.0	0.0	0.0
5°	61.4	61.7	62.0	62.0	62.0	61.7	23.4	1.7	1.4	0.0	0.0
7.5°	59.6	60.0	60.0	60.0	60.3	60.3	60.3	58.2	47.9	1.0	0.0
10°	112.7	113.1	113.7	82.7	61.7	59.3	59.3	48.3	46.5	6.2	2.4
12.5°	111.0	111.3	112.0	112.4	113.1	75.1	62.7	86.2	92.0	119.6	78.2
15°	128.2	134.1	121.0	113.4	113.4	106.5	126.1	122.0	122.4	124.4	80.3
17.5°	167.9	167.5	168.9	170.3	124.4	156.1	163.7	127.9	129.3	145.1	147.5
20°	173.7	174.4	172.7	175.4	205.8	164.1	163.7	195.1	193.7	194.0	174.7
22.5°	236.4	237.1	239.5	198.9	215.1	203.0	213.7	217.8	217.8	204.0	205.8
25°	254.4	253.0	255.4	251.6	253.3	245.4	230.9	278.1	291.2	278.5	277.1
27.5°	353.3	350.2	342.9	280.6	275.7	260.6	304.3	311.9	312.3	309.9	321.2
30°	418.4	419.5	399.5	365.7	306.8	300.2	336.4	364.3	374.0	405.7	396.0
32.5°	624.2	611.4	554.6	434.3	378.8	353.3	374.3	428.1	421.5	442.6	442.6
35°	816.2	793.8	707.3	585.2	443.2	393.6	444.6	461.2	473.9	491.8	498.0
37.5°	1007.8	998.9	908.5	742.8	571.1	460.1	501.8	533.5	532.2	555.6	567.7
40°	1178.1	1166.7	1107.1	939.6	723.5	560.8	582.5	613.9	611.4	655.9	672.4
42.5°	1304.9	1297.3	1258.4	1088.8	911.7	731.7	703.1	716.6	725.2	772.7	789.6
45°	1374.2	1360.8	1349.4	1207.4	1075.4	936.8	862.7	846.5	856.8	903.7	915.4
47.5°	1359.4	1342.8	1359.0	1278.0	1219.4	1116.0	1073.0	1018.8	1011.3	1071.6	1049.5
50°	1243.6	1233.2	1283.5	1278.0	1302.2	1264.6	1310.8	1200.1	1188.1	1221.9	1183.2
52.5°	1038.5	1038.5	1116.4	1167.4	1300.8	1371.1	1518.3	1393.5	1373.9	1367.6	1284.9
55°	827.6	833.1	906.1	979.9	1187.4	1399.7	1691.6	1571.0	1553.8	1471.7	1361.4
57.5°	598.7	604.9	709.3	771.0	973.7	1301.8	1757.8	1685.8	1678.9	1555.1	1432.1
60°	350.9	365.7	476.3	580.1	703.1	1048.1	1731.6	1764.7	1786.8	1622.4	1483.8
62.5°	206.8	213.0	251.6	393.3	486.0	713.1	1588.2	1804.0	1868.1	1679.2	1524.1
64°	151.0	154.1	181.6	284.7	380.5	518.0	1408.0	1804.0	1880.9	1709.9	1535.2
65°	123.4	124.8	144.1	227.8	321.9	396.4	1238.7	1788.8	1864.0	1725.1	1532.7
67.5°	100.3	101.3	106.2	130.3	221.6	217.8	732.4	1654.8	1714.0	1741.6	1495.5
70°	90.3	91.3	99.6	101.7	163.7	145.1	236.1	1360.1	1400.0	1656.1	1416.2
72.5°	68.6	71.3	86.2	98.9	113.4	108.6	113.1	838.6	885.1	1261.1	1208.4
75°	46.9	49.6	64.1	84.1	87.5	81.7	85.1	321.9	360.5	655.2	729.0
77.5°	30.0	30.3	40.0	61.0	78.2	55.8	64.5	90.6	105.5	222.0	227.1
80°	19.6	20.3	24.1	38.9	53.4	46.5	39.6	48.9	49.6	65.5	34.8
82.5°	12.1	11.7	15.9	24.1	32.7	39.3	24.5	31.7	33.1	38.6	14.8
85°	5.2	5.5	10.0	15.5	20.3	19.0	15.2	19.3	20.0	25.5	8.6
87.5°	2.1	2.1	5.9	8.6	9.0	9.0	9.3	10.3	10.3	15.9	5.5
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	1.4	31.7	45.5	45.5
10°	2.4	2.1	0.0	0.3	0.3	15.9	50.7	50.7	49.6	48.9	48.6
12.5°	77.6	89.3	85.5	36.9	28.6	45.2	47.9	42.4	37.9	35.8	35.2
15°	92.7	92.4	90.0	73.1	102.4	45.8	36.5	44.1	37.9	32.7	32.7
17.5°	154.4	146.5	122.4	99.3	92.7	62.0	36.9	25.2	20.7	19.3	19.3
20°	183.7	180.3	157.5	153.0	84.8	51.0	25.9	17.2	19.6	22.1	22.1
22.5°	225.8	224.0	165.4	145.8	84.4	31.0	20.7	20.7	20.3	19.3	19.3
25°	271.3	273.0	233.3	154.4	57.6	25.9	21.4	17.9	15.9	17.2	17.6
27.5°	330.9	287.5	235.1	142.3	39.3	24.1	18.3	17.2	16.9	16.2	16.2
30°	398.4	389.1	300.9	118.6	30.0	21.7	17.2	15.2	13.4	14.1	14.1
32.5°	445.0	416.4	295.4	89.6	25.9	19.0	14.8	12.8	13.1	13.4	13.1
35°	491.8	459.4	297.8	57.6	23.1	15.5	12.1	11.4	11.0	12.4	12.4
37.5°	558.4	517.3	293.3	36.2	19.3	12.8	10.3	10.0	10.3	10.7	10.7
40°	640.1	593.2	282.6	27.2	15.9	10.3	8.6	8.3	9.0	9.0	9.0
42.5°	737.9	675.9	254.7	23.8	13.4	8.3	6.9	6.9	7.6	7.6	7.6
45°	854.8	776.9	219.2	21.0	11.4	6.9	5.5	5.9	6.2	6.2	6.2
47.5°	983.3	887.9	174.1	18.3	9.7	5.5	4.5	4.5	4.8	4.8	4.8
50°	1102.3	979.6	137.2	16.2	7.9	4.5	3.4	3.4	3.4	3.4	3.4
52.5°	1189.8	1039.9	100.0	14.1	6.9	3.4	2.4	2.4	2.4	2.4	2.4
55°	1261.1	1079.8	72.4	12.1	5.5	2.8	1.7	1.4	1.7	1.4	1.4
57.5°	1323.9	1105.0	52.0	10.0	4.5	1.7	0.7	0.7	0.7	0.7	0.7
60°	1380.7	1118.5	38.6	8.3	3.8	1.0	0.7	0.3	0.3	0.0	0.0
62.5°	1432.4	1123.3	29.3	6.5	3.1	0.7	0.3	0.0	0.0	0.0	0.0
64°	1451.4	1118.8	25.2	5.9	2.8	0.3	0.3	0.0	0.0	0.0	0.0
65°	1457.3	1108.1	22.7	5.2	2.4	0.3	0.3	0.0	0.0	0.0	0.0
67.5°	1439.3	1059.5	16.9	4.1	2.1	0.3	0.3	0.0	0.0	0.0	0.0
70°	1369.4	967.8	12.4	3.4	1.4	0.0	0.3	0.0	0.0	0.0	0.0
72.5°	1119.8	730.7	9.0	2.8	1.4	0.0	0.3	0.0	0.0	0.0	0.0
75°	672.4	308.1	6.5	2.1	1.4	0.0	0.7	0.0	0.0	0.0	0.0
77.5°	203.0	99.3	4.8	1.7	1.7	0.0	1.0	0.3	0.0	0.0	0.0
80°	27.2	14.8	2.8	1.4	1.7	0.0	1.4	0.3	0.0	0.0	0.0
82.5°	10.0	4.8	1.7	1.4	1.7	0.0	1.4	1.0	0.3	0.3	0.0
85°	3.8	2.8	1.4	1.0	2.1	0.0	1.7	1.0	0.3	0.3	0.0
87.5°	1.7	1.4	1.0	1.0	2.1	0.0	1.7	1.4	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)