

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: P239346

Luminaire Tested: **UTLD-AF24-40-D-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239346
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-AF24-40-D-U-T2U-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 500mA 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: 2997 lumens
Efficiency: N/A
Efficacy: 74.9 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: B1 - U0 - G1

Input Watts (W): 40
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



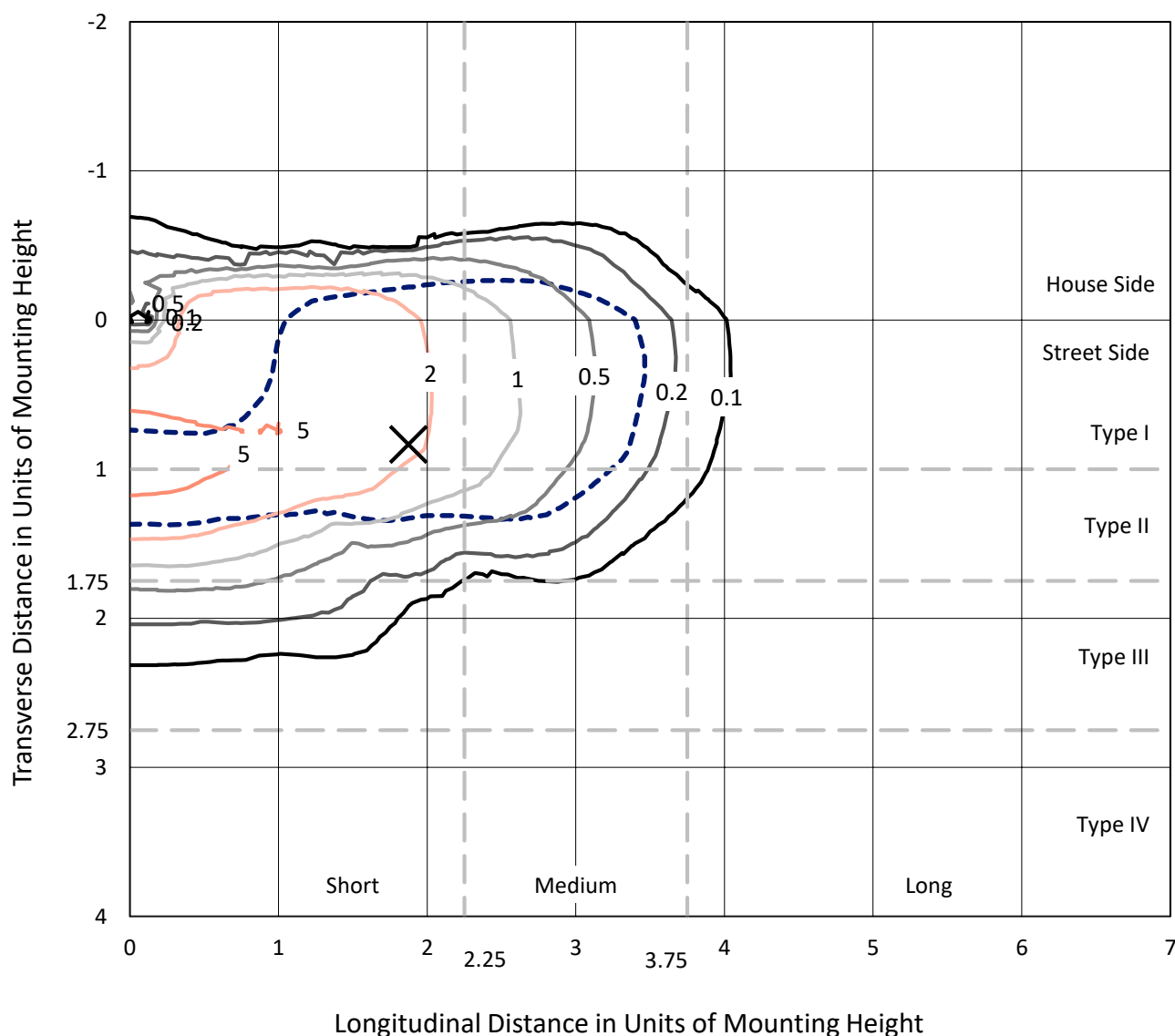
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

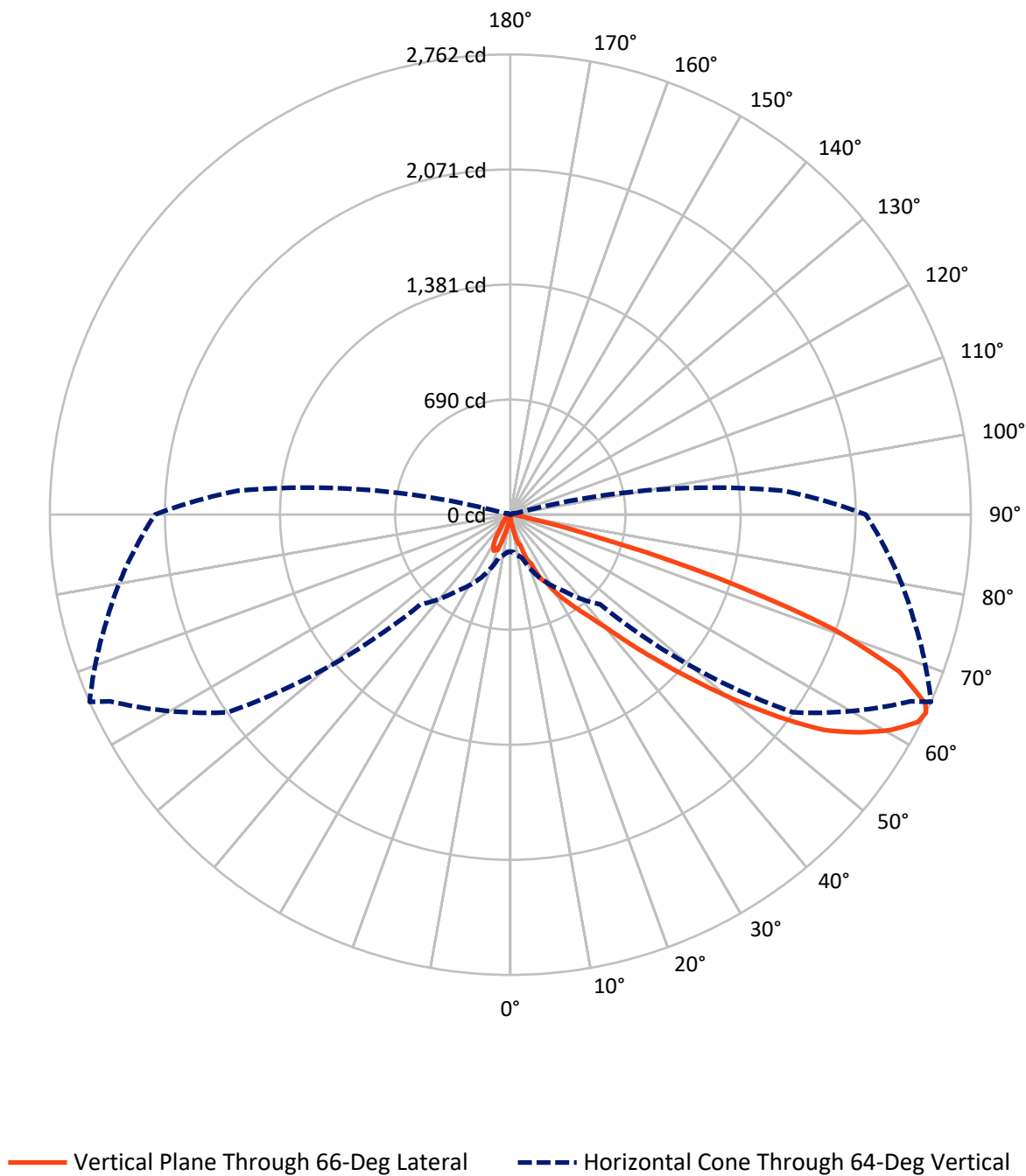


Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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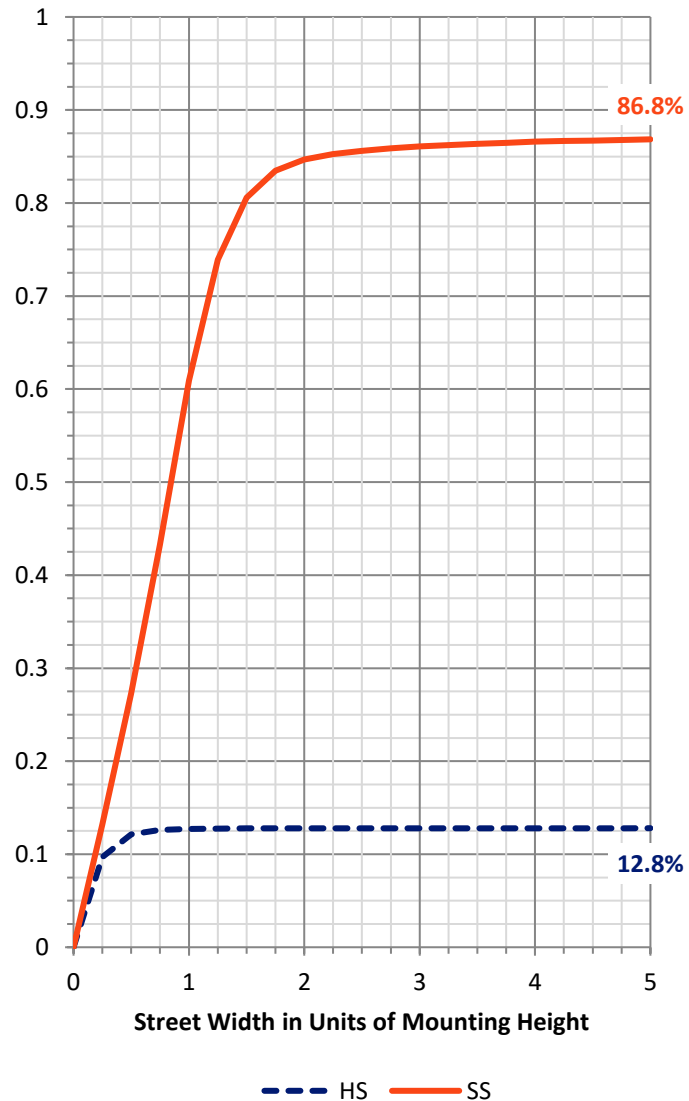
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	388.3	0.0	388.3
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	2608.7	0.0	2608.7
	% Fixture	87.0	0.0	87.0
Total	Lumens	2997.0	0.0	2997.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.1
10°-20°	39.1	1.3
20°-30°	121.6	4.1
30°-40°	305.3	10.2
40°-50°	662.1	22.1
50°-60°	896.5	29.9
60°-70°	704.7	23.5
70°-80°	249.2	8.3
80°-90°	15.0	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°	2997.0	100.0
0°-180°	2997.0	100.0

Coefficient of Utilization



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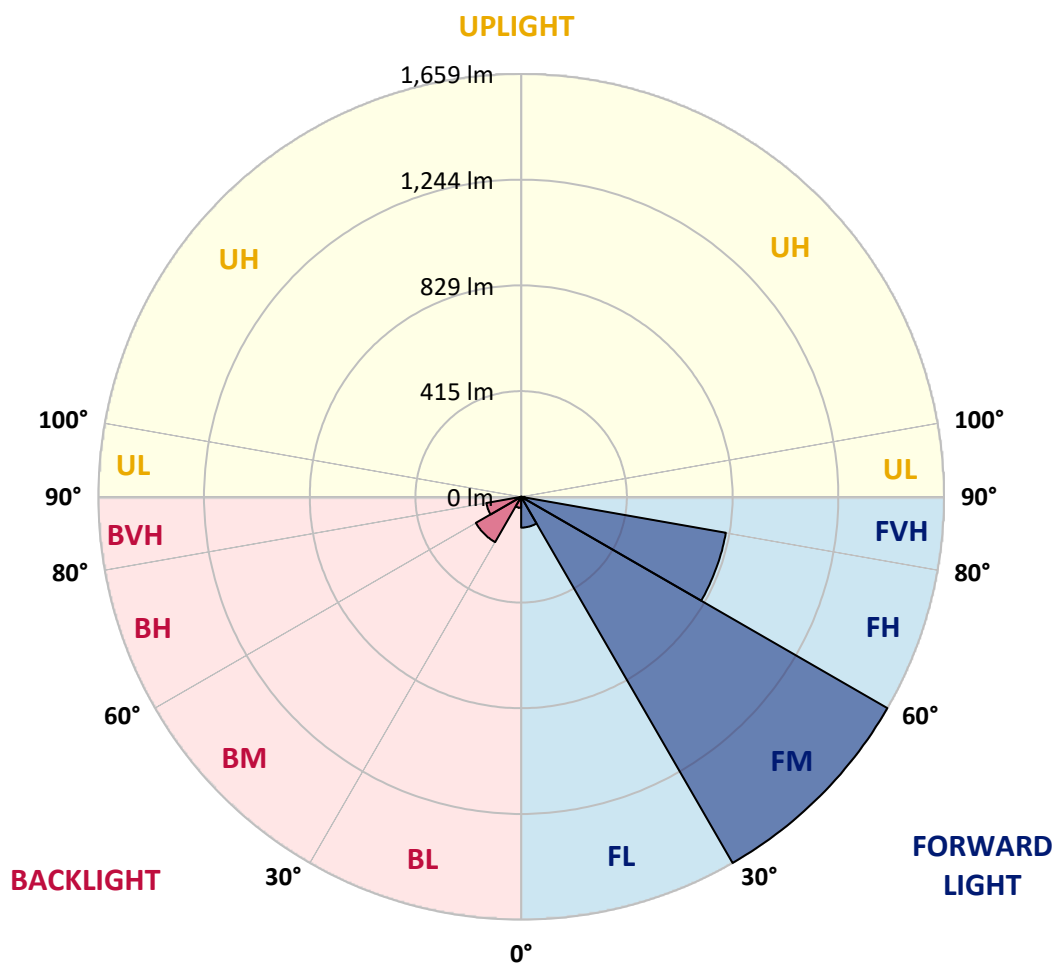
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	120.7	4.0			
FM	(30°-60°)	1658.8	55.3			
FH	(60°-80°)	815.2	27.2			G1/1800
FVH	(80°-90°)	14.0	0.5			G1/100
BL	(0°-30°)	43.4	1.4	B0/110		
BM	(30°-60°)	205.1	6.8	B0/220		
BH	(60°-80°)	138.8	4.6	B1/500		G1/500
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

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°	11.1	10.6	9.1	7.1	2.5	1.5	0.0	0.0	0.0	0.0	0.0
5°	90.1	90.6	91.1	91.1	91.1	90.6	34.4	2.5	2.0	0.0	0.0
7.5°	87.6	88.1	88.1	88.1	88.6	88.6	88.6	85.5	70.3	1.5	0.0
10°	165.5	166.0	167.0	121.5	90.6	87.1	87.1	70.9	68.3	9.1	3.5
12.5°	163.0	163.5	164.5	165.0	166.0	110.3	92.1	126.5	135.1	175.6	114.9
15°	188.3	196.9	177.6	166.5	166.5	156.4	185.2	179.2	179.7	182.7	117.9
17.5°	246.5	246.0	248.0	250.0	182.7	229.3	240.4	187.8	189.8	213.1	216.6
20°	255.1	256.1	253.6	257.6	302.1	240.9	240.4	286.5	284.4	284.9	256.6
22.5°	347.2	348.2	351.7	292.0	315.8	298.1	313.8	319.9	319.9	299.6	302.1
25°	373.5	371.5	375.0	369.5	372.0	360.4	339.1	408.4	427.7	408.9	406.9
27.5°	518.8	514.2	503.6	412.0	404.9	382.6	446.9	458.0	458.5	455.0	471.7
30°	614.4	615.9	586.6	537.0	450.4	440.8	494.0	535.0	549.1	595.7	581.5
32.5°	916.6	897.8	814.3	637.7	556.2	518.8	549.6	628.6	619.0	649.8	649.8
35°	1198.5	1165.6	1038.5	859.4	650.9	578.0	652.9	677.2	695.9	722.2	731.3
37.5°	1479.9	1466.7	1334.1	1090.7	838.6	675.7	736.9	783.5	781.4	815.9	833.6
40°	1729.9	1713.2	1625.6	1379.7	1062.3	823.4	855.3	901.4	897.8	963.1	987.4
42.5°	1916.1	1905.0	1847.8	1598.8	1338.7	1074.5	1032.5	1052.2	1064.9	1134.7	1159.5
45°	2017.9	1998.1	1981.4	1772.9	1579.1	1375.6	1266.8	1243.0	1258.2	1327.0	1344.2
47.5°	1996.1	1971.8	1995.6	1876.7	1790.6	1638.8	1575.5	1496.1	1484.9	1573.5	1541.1
50°	1826.1	1810.9	1884.8	1876.7	1912.1	1856.9	1924.7	1762.3	1744.6	1794.2	1737.5
52.5°	1524.9	1524.9	1639.3	1714.2	1910.1	2013.3	2229.4	2046.2	2017.4	2008.3	1886.8
55°	1215.2	1223.3	1330.6	1438.9	1743.6	2055.3	2484.0	2306.9	2281.6	2161.1	1999.1
57.5°	879.1	888.2	1041.6	1132.2	1429.8	1911.6	2581.2	2475.4	2465.3	2283.6	2102.9
60°	515.2	537.0	699.4	851.8	1032.5	1539.1	2542.7	2591.3	2623.7	2382.3	2178.8
62.5°	303.7	312.8	369.5	577.5	713.6	1047.1	2332.2	2649.0	2743.1	2465.8	2238.0
64°	221.7	226.2	266.7	418.0	558.7	760.7	2067.5	2649.0	2761.9	2510.8	2254.2
65°	181.2	183.2	211.6	334.5	472.7	582.0	1819.0	2626.7	2737.1	2533.1	2250.7
67.5°	147.3	148.8	155.9	191.3	325.4	319.9	1075.5	2429.8	2516.9	2557.4	2196.0
70°	132.6	134.1	146.3	149.3	240.4	213.1	346.7	1997.1	2055.8	2431.9	2079.6
72.5°	100.7	104.8	126.5	145.3	166.5	159.4	166.0	1231.4	1299.7	1851.9	1774.4
75°	68.8	72.9	94.1	123.5	128.6	119.9	125.0	472.7	529.4	962.1	1070.4
77.5°	44.0	44.5	58.7	89.6	114.9	82.0	94.6	133.1	154.9	325.9	333.5
80°	28.8	29.9	35.4	57.2	78.4	68.3	58.2	71.9	72.9	96.2	51.1
82.5°	17.7	17.2	23.3	35.4	48.1	57.7	35.9	46.6	48.6	56.7	21.8
85°	7.6	8.1	14.7	22.8	29.9	27.8	22.3	28.3	29.4	37.5	12.7
87.5°	3.0	3.0	8.6	12.7	13.2	13.2	13.7	15.2	15.2	23.3	8.1
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°	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	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.5	0.5	0.0	0.0	2.0	46.6	66.8	66.8
10°	3.5	3.0	0.0	0.5	0.5	23.3	74.4	74.4	72.9	71.9	71.4
12.5°	113.9	131.1	125.5	54.2	42.0	66.3	70.3	62.3	55.7	52.6	51.6
15°	136.1	135.6	132.1	107.3	150.3	67.3	53.6	64.8	55.7	48.1	48.1
17.5°	226.7	215.1	179.7	145.8	136.1	91.1	54.2	36.9	30.4	28.3	28.3
20°	269.8	264.7	231.3	224.7	124.5	74.9	38.0	25.3	28.8	32.4	32.4
22.5°	331.5	329.0	242.9	214.1	124.0	45.6	30.4	30.4	29.9	28.3	28.3
25°	398.3	400.8	342.6	226.7	84.5	38.0	31.4	26.3	23.3	25.3	25.8
27.5°	485.9	422.1	345.2	209.0	57.7	35.4	26.8	25.3	24.8	23.8	23.8
30°	585.1	571.4	441.8	174.1	44.0	31.9	25.3	22.3	19.7	20.8	20.8
32.5°	653.4	611.4	433.7	131.6	38.0	27.8	21.8	18.7	19.2	19.7	19.2
35°	722.2	674.6	437.3	84.5	33.9	22.8	17.7	16.7	16.2	18.2	18.2
37.5°	819.9	759.7	430.7	53.1	28.3	18.7	15.2	14.7	15.2	15.7	15.7
40°	939.8	871.0	415.0	40.0	23.3	15.2	12.7	12.1	13.2	13.2	13.2
42.5°	1083.6	992.5	374.0	34.9	19.7	12.1	10.1	10.1	11.1	11.1	11.1
45°	1255.2	1140.8	321.9	30.9	16.7	10.1	8.1	8.6	9.1	9.1	9.1
47.5°	1443.9	1303.7	255.6	26.8	14.2	8.1	6.6	6.6	7.1	7.1	7.1
50°	1618.5	1438.4	201.4	23.8	11.6	6.6	5.1	5.1	5.1	5.1	5.1
52.5°	1747.1	1526.9	146.8	20.8	10.1	5.1	3.5	3.5	3.5	3.5	3.5
55°	1851.9	1585.6	106.3	17.7	8.1	4.0	2.5	2.0	2.5	2.0	2.0
57.5°	1944.0	1622.6	76.4	14.7	6.6	2.5	1.0	1.0	1.0	1.0	1.0
60°	2027.5	1642.3	56.7	12.1	5.6	1.5	1.0	0.5	0.5	0.0	0.0
62.5°	2103.4	1649.4	43.0	9.6	4.6	1.0	0.5	0.0	0.0	0.0	0.0
64°	2131.2	1642.8	36.9	8.6	4.0	0.5	0.5	0.0	0.0	0.0	0.0
65°	2139.8	1627.1	33.4	7.6	3.5	0.5	0.5	0.0	0.0	0.0	0.0
67.5°	2113.5	1555.8	24.8	6.1	3.0	0.5	0.5	0.0	0.0	0.0	0.0
70°	2010.8	1421.2	18.2	5.1	2.0	0.0	0.5	0.0	0.0	0.0	0.0
72.5°	1644.4	1073.0	13.2	4.0	2.0	0.0	0.5	0.0	0.0	0.0	0.0
75°	987.4	452.5	9.6	3.0	2.0	0.0	1.0	0.0	0.0	0.0	0.0
77.5°	298.1	145.8	7.1	2.5	2.5	0.0	1.5	0.5	0.0	0.0	0.0
80°	40.0	21.8	4.0	2.0	2.5	0.0	2.0	0.5	0.0	0.0	0.0
82.5°	14.7	7.1	2.5	2.0	2.5	0.0	2.0	1.5	0.5	0.5	0.0
85°	5.6	4.0	2.0	1.5	3.0	0.0	2.5	1.5	0.5	0.5	0.0
87.5°	2.5	2.0	1.5	1.5	3.0	0.0	2.5	2.0	0.5	0.5	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)