

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: P239607

Luminaire Tested: **UTLD-AF24-40-D-U-T2U-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-13-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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U 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: 3912 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Semi-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



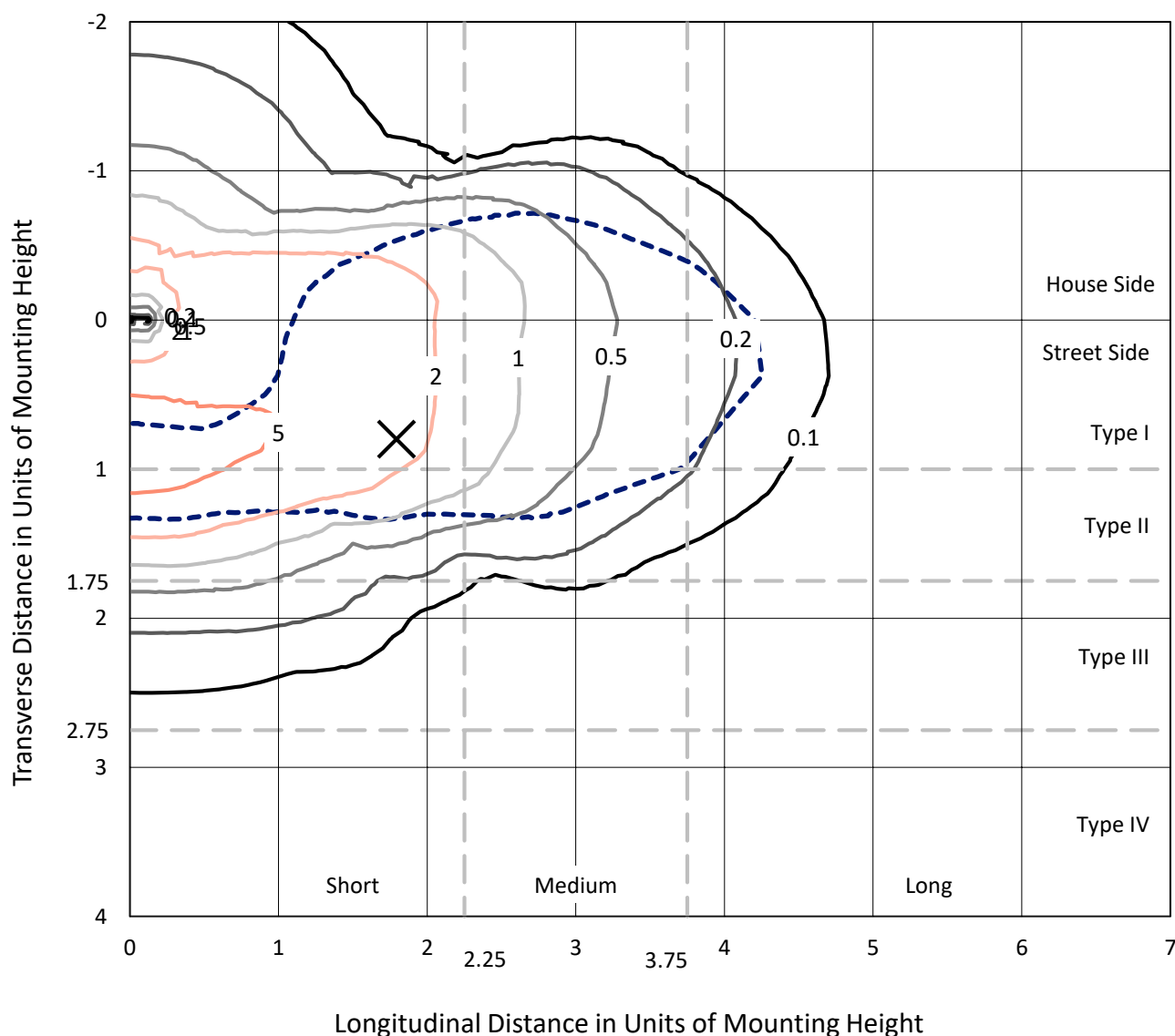
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

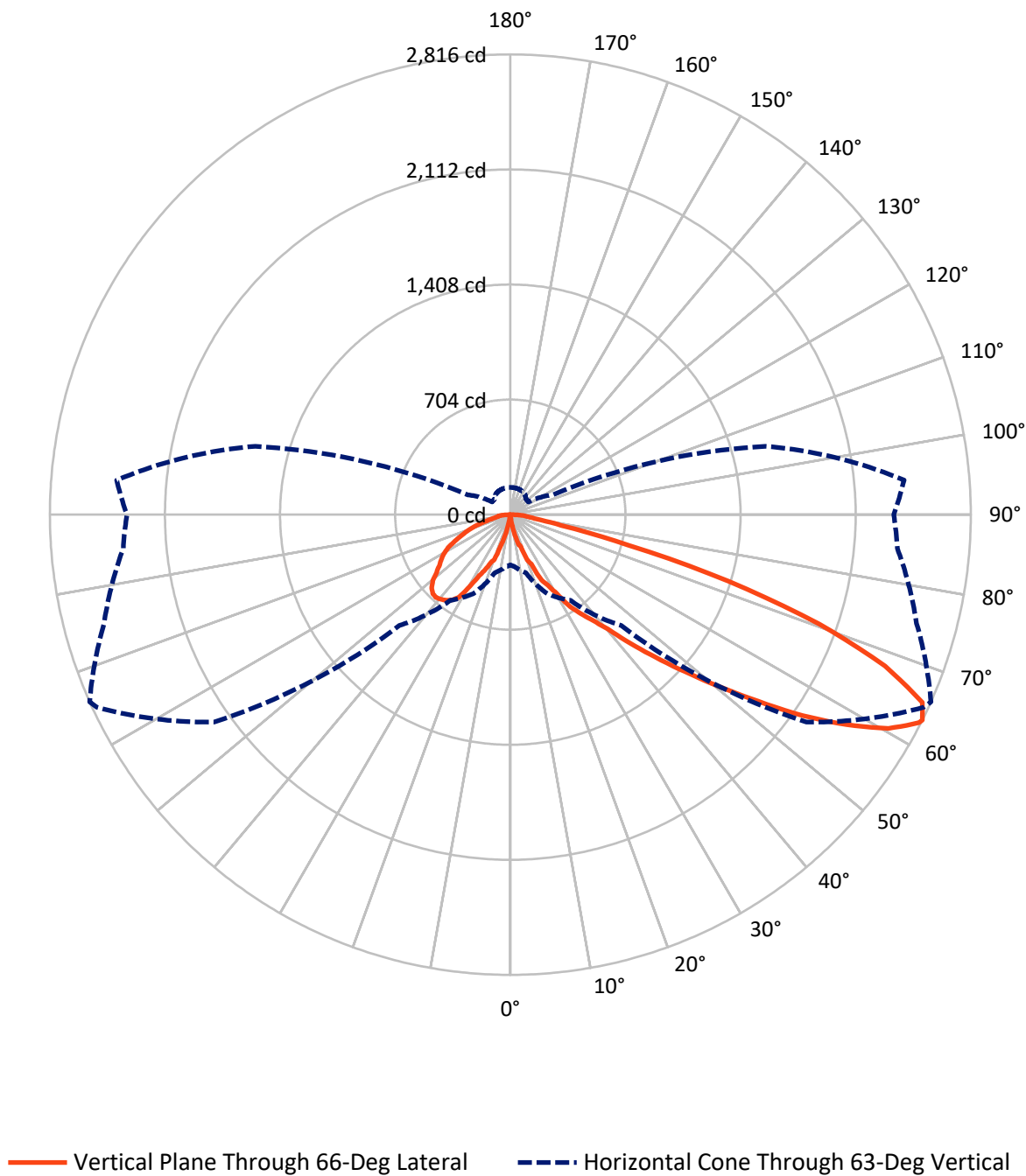


Based on 10 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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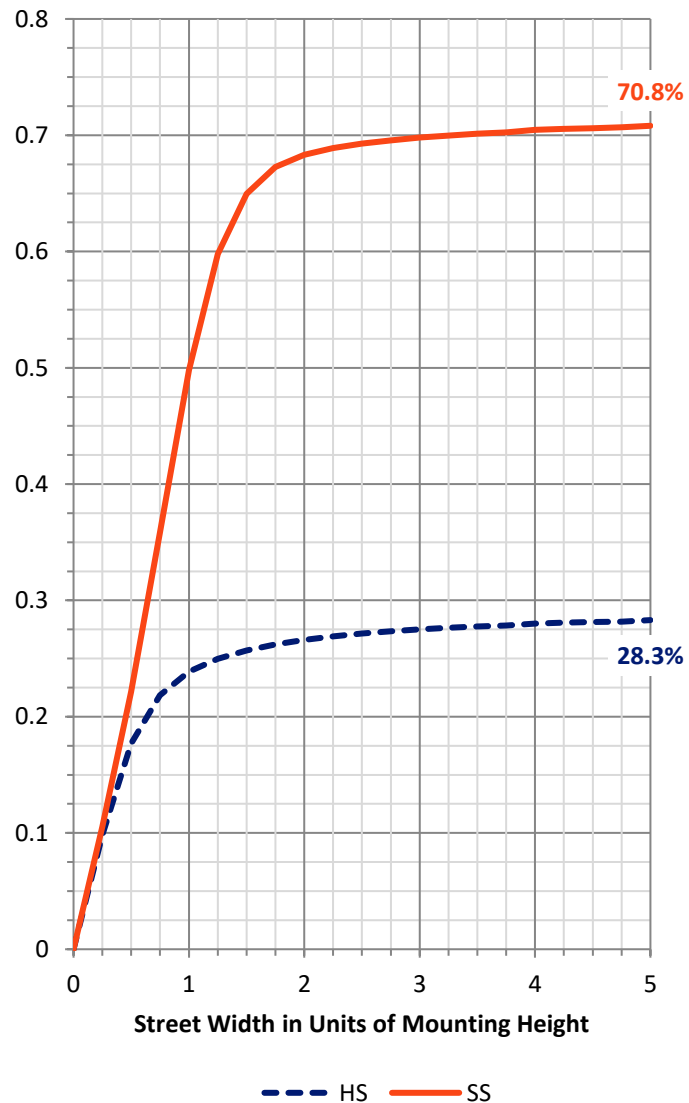
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1126.7	0.0	1126.7
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	2785.3	0.0	2785.3
	% Fixture	71.2	0.0	71.2
Total	Lumens	3912.0	0.0	3912.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.1
10°-20°	51.6	1.3
20°-30°	189.9	4.9
30°-40°	432.2	11.0
40°-50°	778.3	19.9
50°-60°	1016.1	26.0
60°-70°	902.7	23.1
70°-80°	458.6	11.7
80°-90°	78.8	2.0
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°	3912.0	100.0
0°-180°	3912.0	100.0

Coefficient of Utilization



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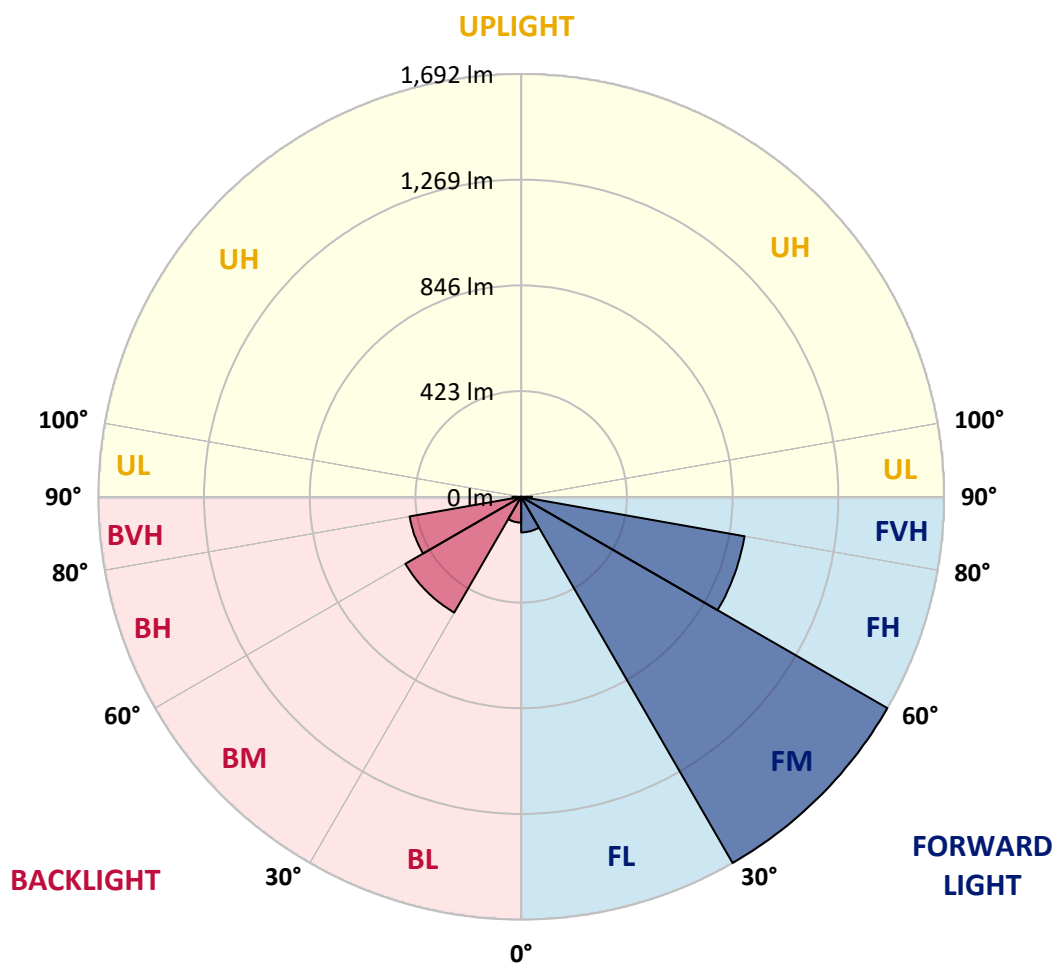
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	142.3	3.6			
FM	(30°-60°)	1691.6	43.2			
FH	(60°-80°)	907.8	23.2			G1/1800
FVH	(80°-90°)	43.7	1.1			G1/100
BL	(0°-30°)	103.1	2.6	B0/110		
BM	(30°-60°)	535.0	13.7	B1/1000		
BH	(60°-80°)	453.5	11.6	B1/500		G1/500
BVH	(80°-90°)	35.1	0.9			G1/100
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°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
2.5°	9.9	9.9	8.5	6.7	5.4	4.5	3.1	2.2	2.2	1.3	0.9
5°	90.5	90.5	90.0	89.6	88.7	85.1	15.7	4.9	4.5	2.2	1.3
7.5°	92.3	91.8	91.8	90.9	90.5	88.7	87.4	34.0	28.7	4.9	2.7
10°	165.3	164.4	163.1	110.2	93.2	90.9	90.5	71.2	70.8	15.2	11.2
12.5°	172.5	172.9	171.6	170.2	166.7	104.4	99.9	129.0	131.3	151.0	117.4
15°	196.7	194.0	184.1	177.9	174.7	164.0	186.8	186.4	187.3	177.0	134.4
17.5°	279.1	278.2	276.0	258.9	192.2	246.4	235.6	200.7	203.4	232.1	232.1
20°	314.9	314.5	306.4	297.0	329.7	265.7	253.1	294.8	297.0	300.2	277.8
22.5°	473.1	472.6	453.4	348.5	370.5	333.3	335.1	336.0	327.9	323.4	347.6
25°	548.8	545.2	534.5	503.1	439.5	444.0	366.5	440.8	444.4	441.7	436.3
27.5°	774.1	774.6	685.0	593.6	539.4	499.5	504.0	489.2	488.8	480.7	502.2
30°	902.3	896.0	864.6	775.9	643.8	590.5	565.8	575.2	560.9	611.5	607.5
32.5°	1204.2	1204.2	1095.8	900.5	775.9	732.0	657.7	660.3	671.1	663.9	674.2
35°	1416.5	1396.4	1289.3	1130.7	879.9	823.0	778.6	739.6	744.1	731.6	741.4
37.5°	1641.9	1621.7	1503.5	1300.1	1063.5	962.3	880.3	831.9	820.7	821.6	829.2
40°	1817.1	1805.9	1733.3	1508.8	1245.0	1111.0	999.5	933.6	921.5	943.5	968.1
42.5°	1939.4	1934.9	1891.9	1693.9	1459.1	1336.4	1169.7	1074.3	1076.5	1088.2	1112.8
45°	1988.2	1977.9	1976.5	1810.8	1652.2	1590.4	1392.4	1234.7	1242.7	1274.5	1279.5
47.5°	1934.9	1913.4	1952.3	1859.2	1812.6	1816.6	1646.8	1441.6	1433.6	1464.0	1461.3
50°	1739.6	1732.4	1807.2	1822.0	1891.9	1984.6	1925.9	1672.4	1649.1	1651.7	1633.4
52.5°	1436.7	1454.2	1552.7	1655.8	1854.7	2075.5	2175.4	1916.1	1895.9	1839.0	1803.6
55°	1154.9	1176.0	1282.6	1362.8	1666.1	2069.3	2357.8	2159.8	2171.0	2024.9	1959.1
57.5°	845.4	872.7	1014.3	1081.9	1365.0	1918.3	2450.5	2397.2	2424.5	2208.6	2106.9
60°	540.3	550.6	693.5	827.9	993.2	1563.0	2441.6	2623.9	2656.6	2406.6	2244.4
62.5°	337.3	348.5	395.1	582.8	702.5	1059.5	2268.6	2774.4	2804.4	2548.6	2359.1
63°	307.3	320.3	368.2	532.7	640.2	958.7	2211.3	2789.6	2816.1	2572.4	2376.1
65°	228.9	234.3	259.4	359.3	469.9	602.1	1810.8	2736.3	2769.5	2592.5	2382.9
67.5°	199.8	202.0	211.0	237.0	336.0	350.3	1055.0	2451.4	2472.0	2516.4	2298.2
70°	182.8	184.1	200.3	202.0	263.4	248.6	387.1	1925.9	2003.9	2361.8	2150.8
72.5°	158.6	160.4	179.2	196.7	204.3	197.6	209.2	1300.5	1394.6	2017.8	1989.1
75°	132.6	134.4	151.0	174.3	177.9	156.8	171.6	681.4	748.1	1479.3	1740.0
77.5°	108.9	110.2	125.0	141.1	163.5	120.5	139.3	256.7	318.1	913.9	1252.6
80°	74.8	78.4	94.5	109.3	125.0	109.3	104.4	146.9	155.5	443.5	640.2
82.5°	56.9	57.8	73.5	79.7	88.3	108.0	82.0	110.7	116.9	206.5	207.9
85°	39.4	38.5	52.0	55.6	61.4	68.1	68.5	80.6	83.3	119.2	87.4
87.5°	17.9	17.0	28.2	27.3	30.9	33.6	48.8	44.4	45.2	74.8	47.0
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°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
2.5°	0.9	0.9	0.9	1.3	1.3	1.3	0.9	0.4	0.4	0.4	0.4
5°	0.9	0.9	0.9	1.3	1.3	1.8	2.2	2.2	2.7	3.1	3.1
7.5°	2.2	1.8	1.8	1.8	2.7	4.0	10.8	46.6	81.5	86.0	87.4
10°	9.9	9.9	7.2	5.8	6.7	73.5	95.0	98.1	99.9	100.8	100.8
12.5°	122.3	136.6	127.7	68.5	73.9	91.4	101.7	103.9	106.6	129.5	133.9
15°	148.7	150.1	151.4	140.7	194.9	143.8	120.1	181.4	184.6	185.9	185.5
17.5°	225.8	229.8	212.3	189.1	207.0	214.1	174.7	191.3	194.4	197.1	197.1
20°	293.0	293.4	275.1	294.3	251.8	260.7	227.6	215.9	277.3	280.0	279.5
22.5°	361.1	366.5	303.3	314.0	331.1	276.4	287.6	256.3	269.7	269.7	269.2
25°	447.1	445.3	415.7	363.3	347.6	327.0	295.2	267.5	304.2	321.7	321.7
27.5°	530.0	504.4	433.2	418.0	398.7	343.2	291.6	306.9	298.4	300.6	300.2
30°	625.8	618.2	553.7	497.7	409.5	333.3	305.1	277.8	292.5	310.0	308.2
32.5°	674.2	654.5	577.5	601.2	429.2	321.2	265.7	261.2	265.7	271.9	272.8
35°	737.8	705.6	629.9	634.4	432.3	281.8	236.5	233.9	258.5	270.1	271.5
37.5°	819.8	781.3	717.7	649.1	405.9	248.6	209.7	224.4	233.0	238.3	236.5
40°	925.1	879.4	831.9	653.2	361.5	214.6	194.9	207.0	215.0	216.4	216.4
42.5°	1054.1	991.0	949.3	650.9	303.7	196.7	185.0	194.4	204.7	203.8	202.9
45°	1206.4	1130.3	1045.2	635.7	247.3	186.8	180.1	186.4	194.0	190.8	189.5
47.5°	1370.9	1288.9	1129.8	604.8	210.6	179.6	177.4	177.4	185.9	185.0	184.6
50°	1537.5	1453.3	1218.5	557.3	190.4	173.4	168.4	174.3	184.1	182.3	181.4
52.5°	1702.4	1626.7	1287.5	491.4	177.9	168.0	164.9	172.5	181.4	179.6	179.2
55°	1854.2	1805.4	1361.4	439.0	164.9	158.6	164.9	171.1	178.3	176.5	176.5
57.5°	2011.0	1996.7	1453.7	397.4	154.1	151.4	163.1	168.9	174.7	173.8	173.8
60°	2168.3	2207.7	1538.4	353.0	145.6	142.9	159.5	166.2	171.1	170.7	170.7
62.5°	2320.1	2393.2	1605.2	301.1	137.5	136.2	155.0	162.6	166.7	167.5	167.5
63°	2344.8	2416.9	1615.0	285.8	135.7	135.3	154.1	161.7	165.3	166.7	166.7
65°	2390.5	2474.7	1630.7	235.2	128.1	130.4	149.2	158.6	160.8	164.0	163.1
67.5°	2349.3	2419.6	1584.1	181.4	118.7	123.2	141.6	151.9	154.1	158.6	156.3
70°	2257.0	2252.5	1426.4	147.8	111.5	115.6	133.1	144.3	145.1	149.6	145.1
72.5°	2083.2	1925.5	1124.0	125.4	104.4	108.0	124.1	134.8	135.3	137.1	132.6
75°	1741.3	1497.6	675.6	108.4	95.4	98.1	114.2	123.2	124.5	121.9	119.6
77.5°	1189.0	941.7	307.8	95.0	87.4	87.8	102.1	110.2	110.7	104.8	104.8
80°	572.1	441.3	128.1	85.1	79.3	77.5	89.6	95.9	95.4	88.7	86.0
82.5°	181.0	161.3	95.4	74.4	70.8	66.8	78.0	80.6	81.1	81.5	65.4
85°	72.1	74.8	73.9	61.4	59.6	50.6	62.3	65.9	64.5	54.2	46.1
87.5°	37.6	46.1	45.2	41.2	42.6	32.3	43.0	41.2	42.1	28.2	22.0
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)