

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: P266371

Luminaire Tested: **UTLD-AF24-50-D-U-T2U-7027-HSS**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266371
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-AF24-50-D-U-T2U-7027-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 670mA 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: 3338 lumens
Efficiency: N/A
Efficacy: 61.8 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: B1 - U0 - G1

Input Watts (W): 54
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



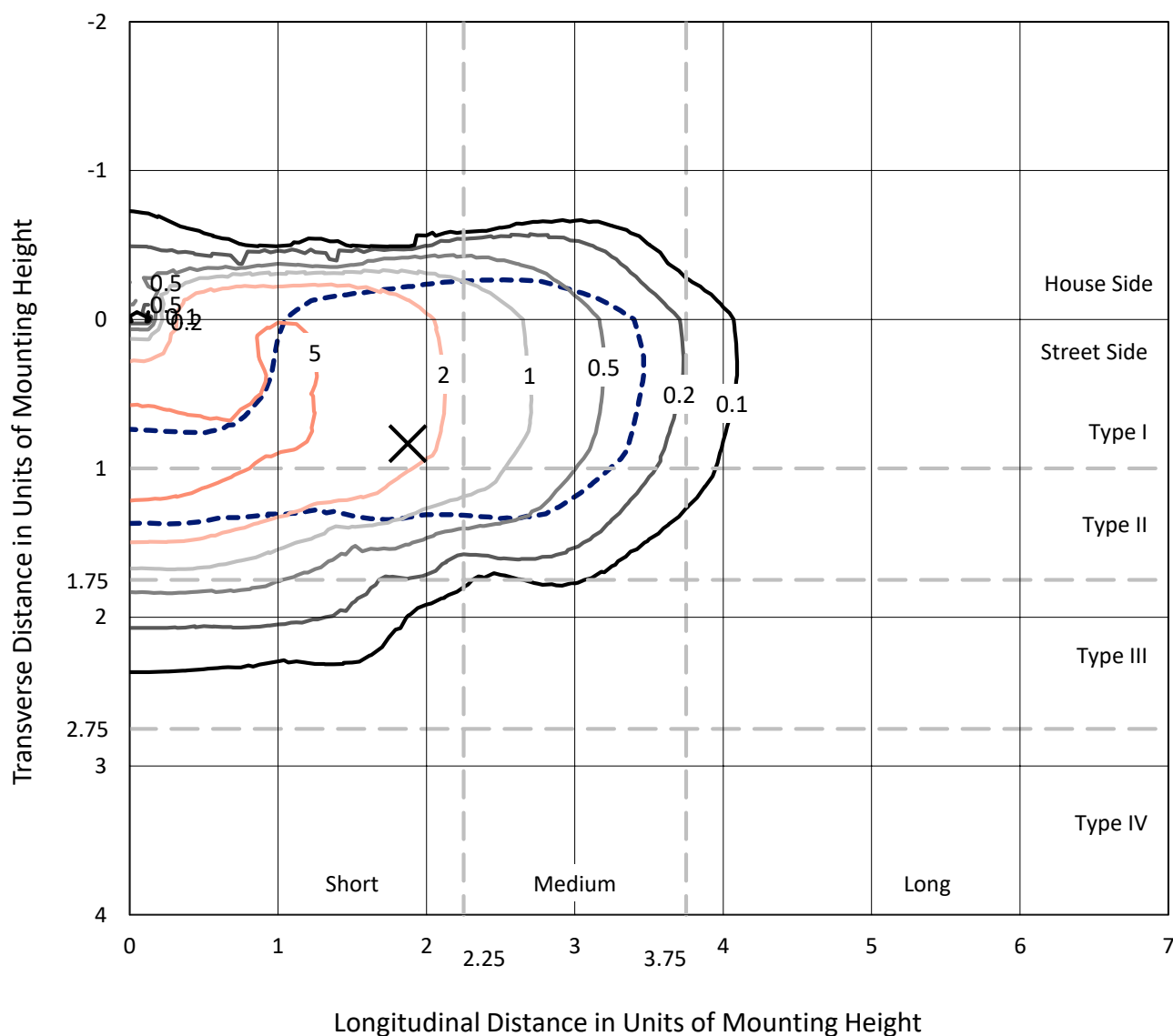
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

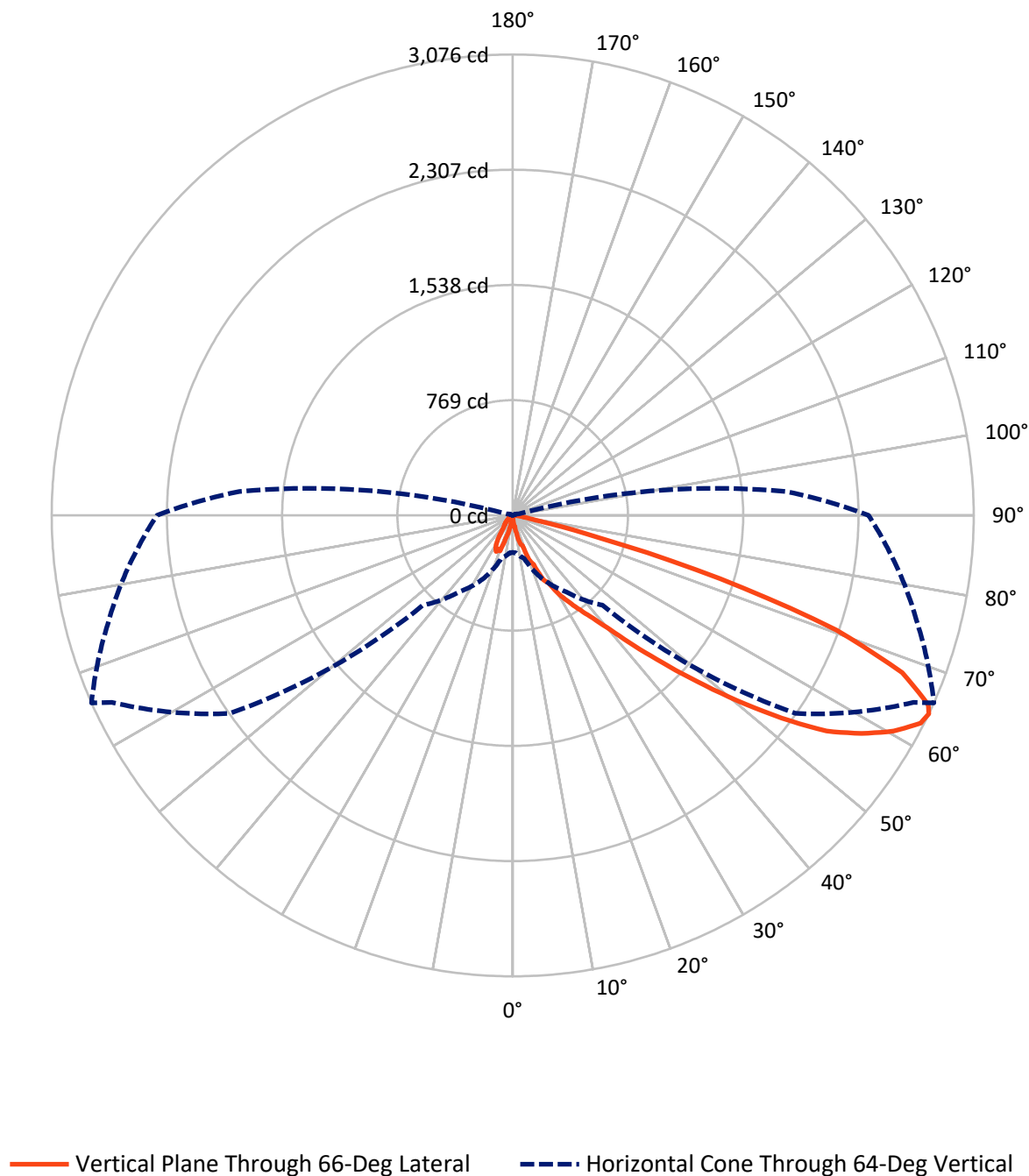


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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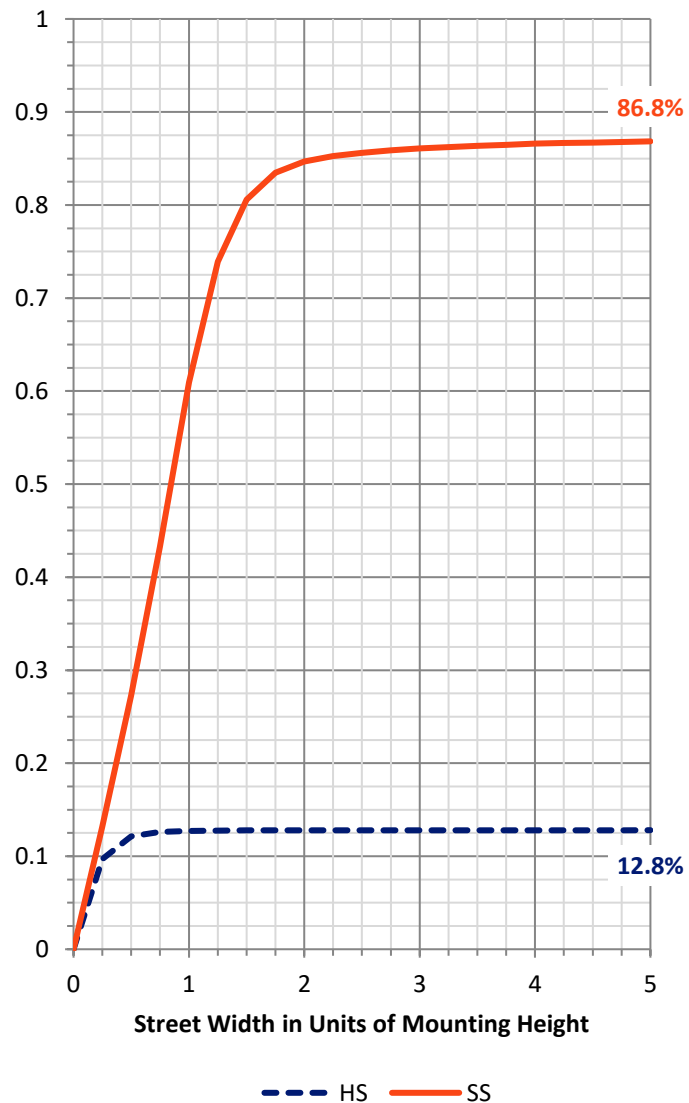
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	432.5	0.0	432.5
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	2905.5	0.0	2905.5
	% Fixture	87.0	0.0	87.0
Total	Lumens	3338.0	0.0	3338.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.1
10°-20°	43.6	1.3
20°-30°	135.4	4.1
30°-40°	340.0	10.2
40°-50°	737.5	22.1
50°-60°	998.5	29.9
60°-70°	784.9	23.5
70°-80°	277.6	8.3
80°-90°	16.7	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°	3338.0	100.0
0°-180°	3338.0	100.0

Coefficient of Utilization



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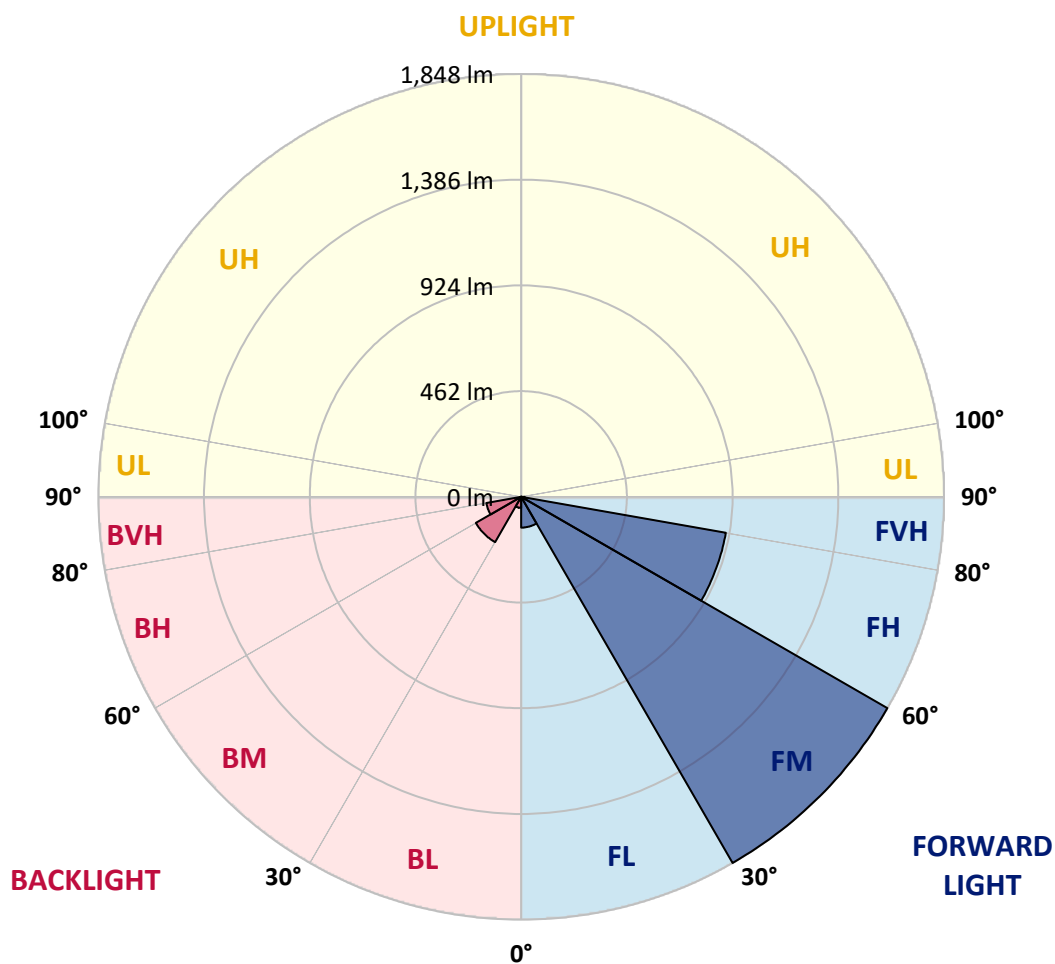
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	134.5	4.0			
FM	(30°-60°)	1847.5	55.3			
FH	(60°-80°)	907.9	27.2			G1/1800
FVH	(80°-90°)	15.6	0.5			G1/100
BL	(0°-30°)	48.3	1.4	B0/110		
BM	(30°-60°)	228.5	6.8	B1/1000		
BH	(60°-80°)	154.6	4.6	B1/500		G1/500
BVH	(80°-90°)	1.1	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°	12.3	11.9	10.2	7.8	2.9	1.6	0.0	0.0	0.0	0.0	0.0
5°	100.3	100.9	101.5	101.5	101.5	100.9	38.4	2.9	2.2	0.0	0.0
7.5°	97.6	98.1	98.1	98.1	98.6	98.6	98.6	95.3	78.3	1.6	0.0
10°	184.3	185.0	185.9	135.3	100.9	96.9	96.9	79.0	76.0	10.2	4.0
12.5°	181.5	182.0	183.3	183.8	185.0	122.9	102.5	140.9	150.5	195.7	128.0
15°	209.8	219.2	197.8	185.5	185.5	174.2	206.3	199.6	200.1	203.5	131.3
17.5°	274.5	274.0	276.1	278.5	203.5	255.4	267.8	209.1	211.5	237.3	241.3
20°	284.1	285.2	282.3	286.9	336.5	268.4	267.8	319.1	316.8	317.5	285.8
22.5°	386.7	387.8	391.8	325.2	351.7	332.1	349.5	356.3	356.3	333.7	336.5
25°	416.1	413.8	417.7	411.6	414.3	401.4	377.6	454.9	476.3	455.5	453.3
27.5°	577.8	572.7	560.9	458.9	450.9	426.2	497.8	510.1	510.6	506.7	525.4
30°	684.2	686.0	653.3	598.1	501.8	491.0	550.2	595.8	611.7	663.5	647.7
32.5°	1020.8	1000.1	907.0	710.3	619.6	577.8	612.1	700.0	689.4	723.8	723.8
35°	1334.8	1298.2	1156.7	957.1	724.9	643.7	727.2	754.2	775.1	804.4	814.6
37.5°	1648.3	1633.6	1485.9	1214.8	934.1	752.5	820.7	872.7	870.4	908.6	928.4
40°	1926.8	1908.1	1810.7	1536.6	1183.2	917.1	952.7	1003.9	1000.1	1072.8	1099.7
42.5°	2134.2	2121.7	2058.0	1780.7	1490.9	1196.7	1149.9	1171.8	1186.0	1263.8	1291.5
45°	2247.5	2225.6	2206.9	1974.7	1758.7	1532.1	1411.0	1384.5	1401.4	1478.0	1497.1
47.5°	2223.2	2196.1	2222.6	2090.1	1994.3	1825.3	1754.7	1666.3	1653.9	1752.6	1716.5
50°	2033.9	2017.0	2099.2	2090.1	2129.6	2068.2	2143.7	1962.7	1943.0	1998.3	1935.2
52.5°	1698.4	1698.4	1825.8	1909.3	2127.4	2242.3	2483.2	2279.0	2246.9	2236.8	2101.4
55°	1353.4	1362.5	1481.9	1602.5	1942.0	2289.2	2766.6	2569.3	2541.1	2407.0	2226.5
57.5°	979.2	989.4	1160.2	1261.0	1592.4	2129.2	2874.8	2757.1	2745.8	2543.5	2342.2
60°	573.8	598.1	779.0	948.7	1149.9	1714.2	2832.0	2886.2	2922.2	2653.4	2426.7
62.5°	338.2	348.4	411.6	643.1	794.8	1166.3	2597.4	2950.5	3055.2	2746.4	2492.6
64°	246.9	252.0	297.1	465.6	622.3	847.2	2302.7	2950.5	3076.2	2796.6	2510.8
65°	201.8	204.1	235.6	372.5	526.4	648.2	2025.9	2925.6	3048.5	2821.3	2506.8
67.5°	164.0	165.7	173.6	213.1	362.5	356.3	1197.9	2706.4	2803.3	2848.3	2445.8
70°	147.7	149.4	163.0	166.2	267.8	237.3	386.1	2224.4	2289.8	2708.6	2316.2
72.5°	112.2	116.7	140.9	161.8	185.5	177.5	185.0	1371.5	1447.6	2062.6	1976.4
75°	76.6	81.1	104.8	137.5	143.2	133.6	139.2	526.4	589.6	1071.6	1192.2
77.5°	49.0	49.5	65.3	99.8	128.0	91.3	105.5	148.3	172.5	363.1	371.4
80°	32.1	33.2	39.4	63.7	87.3	76.0	64.8	80.0	81.1	107.1	57.0
82.5°	19.8	19.1	26.0	39.4	53.5	64.3	40.1	51.8	54.1	63.2	24.3
85°	8.4	9.1	16.3	25.3	33.2	31.0	24.9	31.6	32.7	41.7	14.2
87.5°	3.4	3.4	9.6	14.2	14.6	14.6	15.2	16.9	16.9	26.0	9.1
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	2.2	51.8	74.4	74.4
10°	4.0	3.4	0.0	0.5	0.5	26.0	82.9	82.9	81.1	80.0	79.5
12.5°	126.8	146.1	139.7	60.4	46.8	73.8	78.3	69.3	62.1	58.6	57.5
15°	151.6	151.1	147.1	119.6	167.4	75.0	59.7	72.1	62.1	53.5	53.5
17.5°	252.6	239.6	200.1	162.4	151.6	101.5	60.4	41.1	33.9	31.6	31.6
20°	300.5	294.9	257.6	250.3	138.7	83.5	42.3	28.1	32.1	36.1	36.1
22.5°	369.3	366.4	270.6	238.4	138.1	50.8	33.9	33.9	33.2	31.6	31.6
25°	443.7	446.5	381.6	252.6	94.1	42.3	34.9	29.4	26.0	28.1	28.7
27.5°	541.1	470.2	384.5	232.8	64.3	39.4	29.9	28.1	27.6	26.5	26.5
30°	651.6	636.4	492.1	193.9	49.0	35.6	28.1	24.9	22.0	23.0	23.0
32.5°	727.7	680.9	483.1	146.6	42.3	31.0	24.3	20.9	21.4	22.0	21.4
35°	804.4	751.4	487.1	94.1	37.8	25.3	19.8	18.7	18.1	20.3	20.3
37.5°	913.1	846.2	479.8	59.2	31.6	20.9	16.9	16.3	16.9	17.4	17.4
40°	1046.7	970.1	462.3	44.6	26.0	16.9	14.2	13.6	14.6	14.6	14.6
42.5°	1207.0	1105.5	416.5	38.8	22.0	13.6	11.3	11.3	12.3	12.3	12.3
45°	1398.0	1270.7	358.6	34.3	18.7	11.3	9.1	9.6	10.2	10.2	10.2
47.5°	1608.2	1452.1	284.7	29.9	15.8	9.1	7.4	7.4	7.8	7.8	7.8
50°	1802.7	1602.0	224.3	26.5	12.9	7.4	5.6	5.6	5.6	5.6	5.6
52.5°	1945.9	1700.8	163.5	23.0	11.3	5.6	4.0	4.0	4.0	4.0	4.0
55°	2062.6	1766.1	118.3	19.8	9.1	4.5	2.9	2.2	2.9	2.2	2.2
57.5°	2165.2	1807.2	85.1	16.3	7.4	2.9	1.1	1.1	1.1	1.1	1.1
60°	2258.2	1829.2	63.2	13.6	6.2	1.6	1.1	0.5	0.5	0.0	0.0
62.5°	2342.7	1837.2	47.9	10.7	5.1	1.1	0.5	0.0	0.0	0.0	0.0
64°	2373.7	1829.8	41.1	9.6	4.5	0.5	0.5	0.0	0.0	0.0	0.0
65°	2383.4	1812.3	37.2	8.4	4.0	0.5	0.5	0.0	0.0	0.0	0.0
67.5°	2354.0	1732.8	27.6	6.7	3.4	0.5	0.5	0.0	0.0	0.0	0.0
70°	2239.6	1582.9	20.3	5.6	2.2	0.0	0.5	0.0	0.0	0.0	0.0
72.5°	1831.5	1195.0	14.6	4.5	2.2	0.0	0.5	0.0	0.0	0.0	0.0
75°	1099.7	503.9	10.7	3.4	2.2	0.0	1.1	0.0	0.0	0.0	0.0
77.5°	332.1	162.4	7.8	2.9	2.9	0.0	1.6	0.5	0.0	0.0	0.0
80°	44.6	24.3	4.5	2.2	2.9	0.0	2.2	0.5	0.0	0.0	0.0
82.5°	16.3	7.8	2.9	2.2	2.9	0.0	2.2	1.6	0.5	0.5	0.0
85°	6.2	4.5	2.2	1.6	3.4	0.0	2.9	1.6	0.5	0.5	0.0
87.5°	2.9	2.2	1.6	1.6	3.4	0.0	2.9	2.2	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)