

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: P266473

Luminaire Tested: **UTLD-AF24-80-D-U-T2U-7027-HSS**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266473
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-AF24-80-D-U-T2U-7027-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 4750.4 lumens
Efficiency: N/A
Efficacy: 57.2 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): 83
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



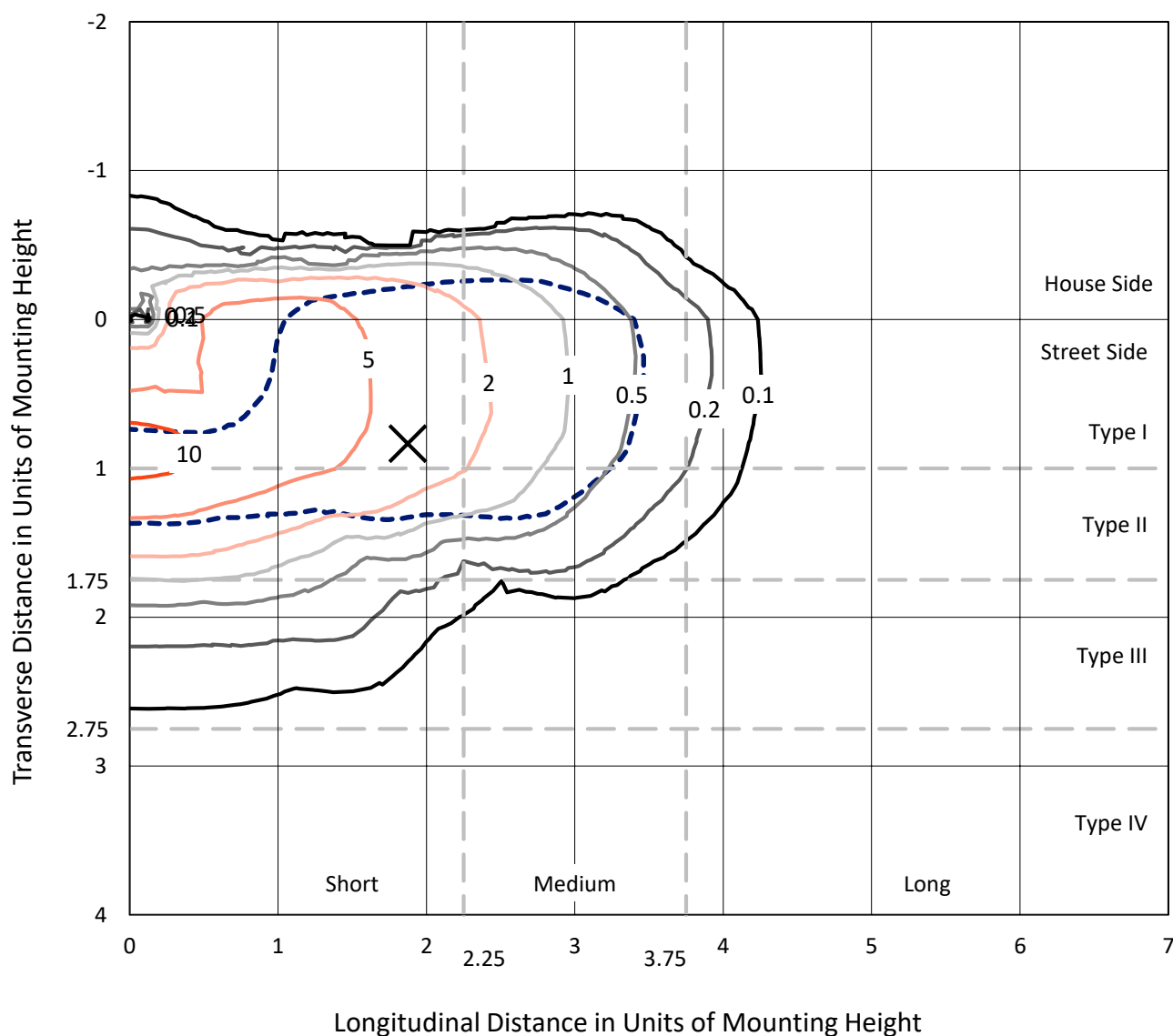
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

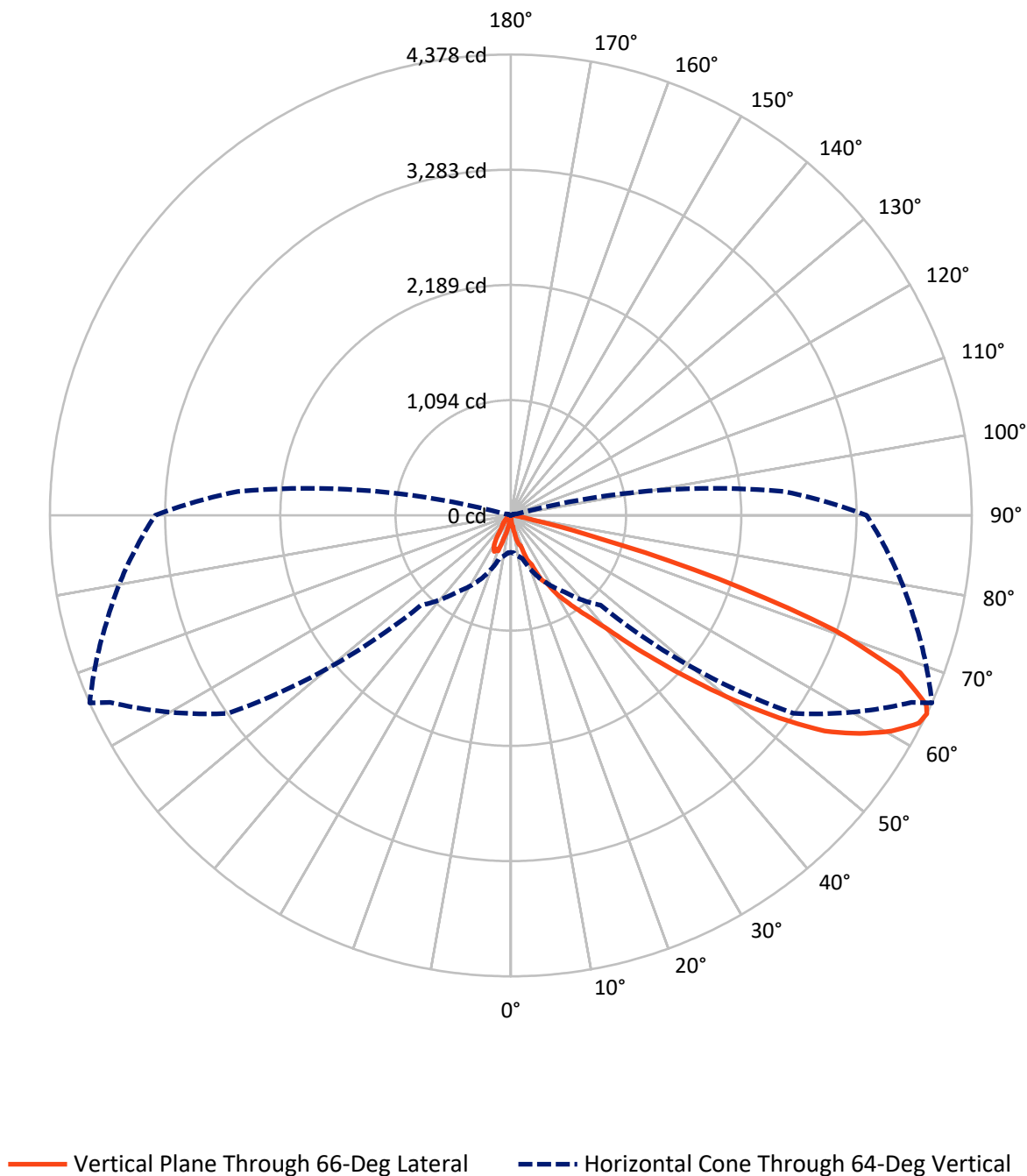


Based on 10 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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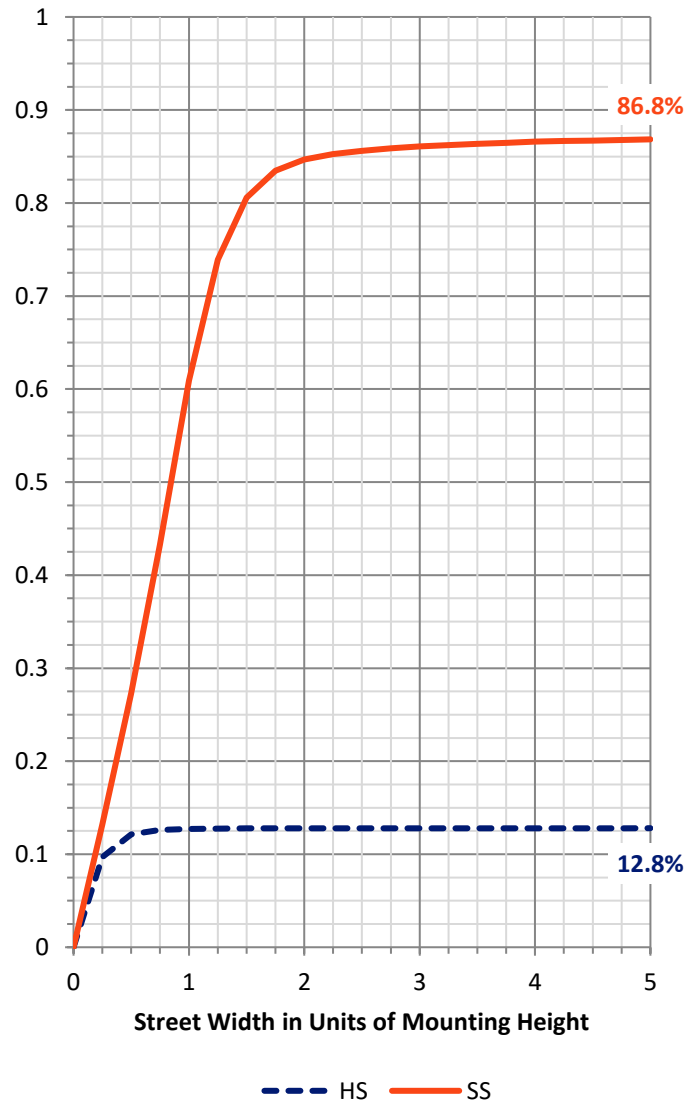
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	615.5	0.0	615.5
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	4134.8	0.0	4134.8
	% Fixture	87.0	0.0	87.0
Total	Lumens	4750.4	0.0	4750.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	0.1
10°-20°	62.0	1.3
20°-30°	192.7	4.1
30°-40°	483.9	10.2
40°-50°	1049.5	22.1
50°-60°	1421.0	29.9
60°-70°	1117.0	23.5
70°-80°	395.0	8.3
80°-90°	23.8	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°	4750.4	100.0
0°-180°	4750.4	100.0

Coefficient of Utilization



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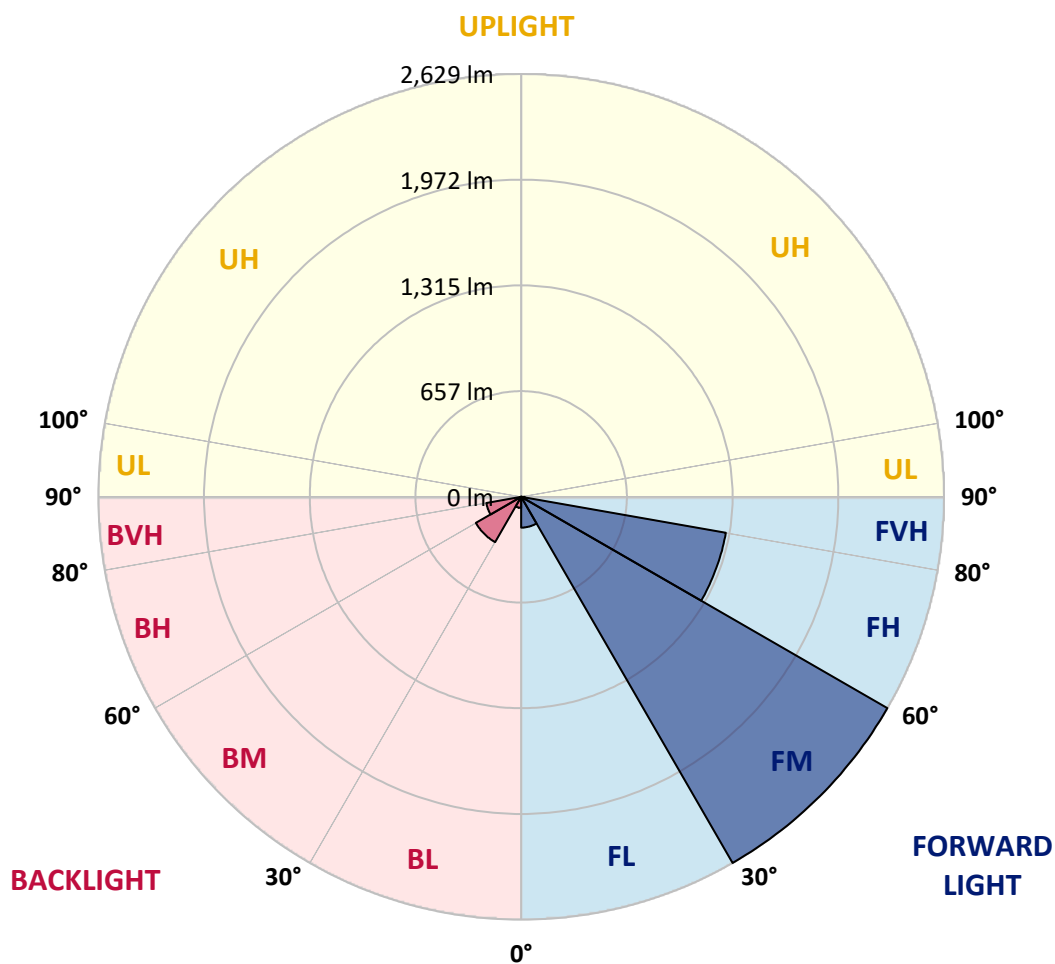
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	191.4	4.0			
FM	(30°-60°)	2629.2	55.3			
FH	(60°-80°)	1292.1	27.2			G1/1800
FVH	(80°-90°)	22.1	0.5			G1/100
BL	(0°-30°)	68.8	1.4	B0/110		
BM	(30°-60°)	325.1	6.8	B1/1000		
BH	(60°-80°)	220.0	4.6	B1/500		G1/500
BVH	(80°-90°)	1.6	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°	17.6	16.9	14.5	11.1	4.0	2.4	0.0	0.0	0.0	0.0	0.0
5°	142.8	143.5	144.4	144.4	144.4	143.5	54.5	4.0	3.2	0.0	0.0
7.5°	138.8	139.5	139.5	139.5	140.3	140.3	140.3	135.6	111.5	2.4	0.0
10°	262.3	263.2	264.7	192.5	143.5	138.0	138.0	112.3	108.2	14.5	5.6
12.5°	258.4	259.2	260.7	261.5	263.2	174.9	146.1	200.5	214.2	278.4	182.0
15°	298.4	312.0	281.6	263.9	263.9	247.9	293.6	284.0	284.9	289.7	186.8
17.5°	390.7	389.9	393.1	396.3	289.7	363.5	381.1	297.6	300.8	337.8	343.3
20°	404.2	405.9	401.9	408.3	478.9	381.9	381.1	454.1	450.8	451.7	406.8
22.5°	550.3	551.9	557.6	462.8	500.5	472.5	497.4	507.1	507.1	474.9	478.9
25°	592.1	588.7	594.5	585.6	589.6	571.1	537.5	647.4	678.0	648.1	645.0
27.5°	822.3	815.0	798.2	653.0	641.7	606.4	708.4	726.0	726.8	721.2	747.7
30°	973.9	976.3	929.7	851.1	714.0	698.7	783.0	847.9	870.4	944.2	921.8
32.5°	1452.7	1423.2	1290.8	1010.9	881.6	822.3	871.1	996.3	981.0	1030.0	1030.0
35°	1899.6	1847.5	1646.1	1362.2	1031.7	916.1	1034.8	1073.4	1102.9	1144.8	1159.3
37.5°	2345.7	2324.9	2114.6	1728.8	1329.2	1071.0	1168.1	1241.7	1238.7	1293.2	1321.2
40°	2741.9	2715.4	2576.7	2186.8	1683.9	1305.1	1355.7	1428.8	1423.2	1526.6	1565.0
42.5°	3037.2	3019.6	2928.8	2534.2	2121.8	1703.0	1636.5	1667.9	1687.8	1798.5	1837.8
45°	3198.4	3167.2	3140.7	2810.2	2502.9	2180.4	2007.9	1970.3	1994.2	2103.4	2130.7
47.5°	3163.9	3125.5	3163.1	2974.6	2838.3	2597.5	2497.3	2371.3	2353.6	2494.1	2442.8
50°	2894.3	2870.4	2987.5	2974.6	3030.7	2943.2	3050.9	2793.3	2765.3	2843.9	2753.9
52.5°	2417.1	2417.1	2598.3	2717.1	3027.6	3191.1	3533.8	3243.3	3197.5	3183.1	2990.6
55°	1926.1	1938.9	2109.0	2280.6	2763.6	3257.8	3937.2	3656.6	3616.3	3425.4	3168.7
57.5°	1393.5	1407.9	1650.9	1794.5	2266.2	3030.0	4091.3	3923.5	3907.5	3619.6	3333.3
60°	816.6	851.1	1108.7	1350.2	1636.5	2439.4	4030.2	4107.3	4158.7	3775.9	3453.5
62.5°	481.3	495.8	585.6	915.4	1131.1	1659.8	3696.5	4198.8	4347.9	3908.3	3547.3
64°	351.3	358.7	422.7	662.6	885.5	1205.7	3277.0	4198.8	4377.6	3979.8	3573.1
65°	287.2	290.4	335.2	530.3	749.2	922.5	2883.1	4163.5	4338.4	4015.1	3567.3
67.5°	233.4	235.9	247.0	303.3	515.8	507.1	1704.8	3851.5	3989.5	4053.5	3480.8
70°	210.2	212.5	231.9	236.7	381.1	337.8	549.6	3165.4	3258.6	3854.5	3296.3
72.5°	159.7	166.0	200.5	230.2	263.9	252.8	263.2	1951.7	2060.1	2935.3	2812.6
75°	109.1	115.5	149.2	195.7	203.7	190.1	198.2	749.2	839.0	1525.1	1696.7
77.5°	69.8	70.5	93.1	142.0	182.0	130.0	149.9	211.0	245.4	516.6	528.7
80°	45.8	47.3	56.1	90.6	124.3	108.2	92.3	113.9	115.5	152.4	81.0
82.5°	28.0	27.3	36.9	56.1	76.1	91.4	57.0	73.8	77.1	89.8	34.5
85°	12.0	12.8	23.3	36.1	47.3	44.1	35.4	44.9	46.5	59.4	20.0
87.5°	4.9	4.9	13.7	20.0	20.9	20.9	21.6	24.1	24.1	36.9	12.8
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	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.8	0.8	0.0	0.0	3.2	73.8	105.9	105.9
10°	5.6	4.9	0.0	0.8	0.8	36.9	117.9	117.9	115.5	113.9	113.0
12.5°	180.5	207.8	199.0	85.9	66.6	105.1	111.5	98.6	88.3	83.5	81.8
15°	215.9	215.0	209.3	170.0	238.3	106.7	85.0	102.6	88.3	76.1	76.1
17.5°	359.4	340.9	284.9	231.0	215.9	144.4	85.9	58.6	48.1	44.9	44.9
20°	427.6	419.6	366.6	356.2	197.4	118.8	60.1	40.2	45.8	51.4	51.4
22.5°	525.5	521.5	385.1	339.3	196.5	72.3	48.1	48.1	47.3	44.9	44.9
25°	631.2	635.3	543.0	359.4	133.9	60.1	49.8	41.7	36.9	40.2	41.0
27.5°	770.1	669.1	547.1	331.4	91.4	56.1	42.5	40.2	39.3	37.6	37.6
30°	927.3	905.8	700.3	276.0	69.8	50.6	40.2	35.4	31.4	32.9	32.9
32.5°	1035.7	969.1	687.6	208.5	60.1	44.1	34.5	29.6	30.5	31.4	30.5
35°	1144.8	1069.3	693.1	133.9	53.8	36.1	28.0	26.5	25.7	28.8	28.8
37.5°	1299.6	1204.1	682.7	84.3	44.9	29.6	24.1	23.3	24.1	24.9	24.9
40°	1489.7	1380.5	657.7	63.4	36.9	24.1	20.0	19.3	20.9	20.9	20.9
42.5°	1717.5	1573.1	592.8	55.3	31.4	19.3	16.0	16.0	17.6	17.6	17.6
45°	1989.4	1808.2	510.1	49.0	26.5	16.0	12.8	13.7	14.5	14.5	14.5
47.5°	2288.7	2066.6	405.1	42.5	22.5	12.8	10.4	10.4	11.1	11.1	11.1
50°	2565.5	2279.9	319.3	37.6	18.4	10.4	8.1	8.1	8.1	8.1	8.1
52.5°	2769.2	2420.3	232.7	32.9	16.0	8.1	5.6	5.6	5.6	5.6	5.6
55°	2935.3	2513.3	168.4	28.0	12.8	6.4	4.0	3.2	4.0	3.2	3.2
57.5°	3081.2	2571.8	121.1	23.3	10.4	4.0	1.5	1.5	1.5	1.5	1.5
60°	3213.6	2603.2	89.8	19.3	8.9	2.4	1.5	0.8	0.8	0.0	0.0
62.5°	3334.0	2614.3	68.2	15.2	7.2	1.5	0.8	0.0	0.0	0.0	0.0
64°	3378.0	2603.9	58.6	13.7	6.4	0.8	0.8	0.0	0.0	0.0	0.0
65°	3391.7	2579.2	52.9	12.0	5.6	0.8	0.8	0.0	0.0	0.0	0.0
67.5°	3350.0	2465.9	39.3	9.6	4.9	0.8	0.8	0.0	0.0	0.0	0.0
70°	3187.1	2252.6	28.8	8.1	3.2	0.0	0.8	0.0	0.0	0.0	0.0
72.5°	2606.4	1700.8	20.9	6.4	3.2	0.0	0.8	0.0	0.0	0.0	0.0
75°	1565.0	717.1	15.2	4.9	3.2	0.0	1.5	0.0	0.0	0.0	0.0
77.5°	472.5	231.0	11.1	4.0	4.0	0.0	2.4	0.8	0.0	0.0	0.0
80°	63.4	34.5	6.4	3.2	4.0	0.0	3.2	0.8	0.0	0.0	0.0
82.5°	23.3	11.1	4.0	3.2	4.0	0.0	3.2	2.4	0.8	0.8	0.0
85°	8.9	6.4	3.2	2.4	4.9	0.0	4.0	2.4	0.8	0.8	0.0
87.5°	4.0	3.2	2.4	2.4	4.9	0.0	4.0	3.2	0.8	0.8	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)