

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: P239348

Luminaire Tested: **UTLD-AF24-60-D-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239348
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-AF24-60-D-U-T2U-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 800mA 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: 4466 lumens
Efficiency: N/A
Efficacy: 69.8 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): 64
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



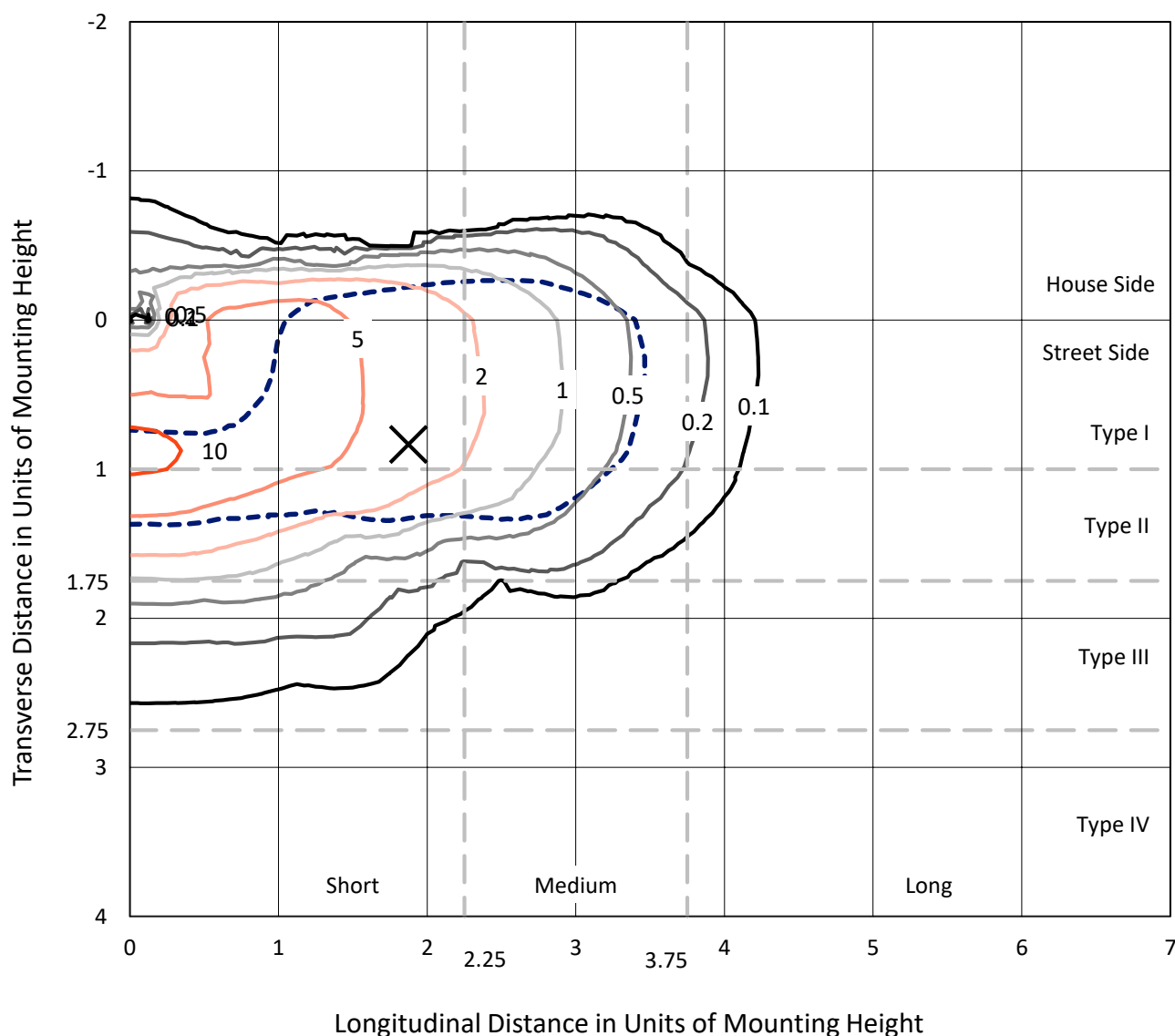
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

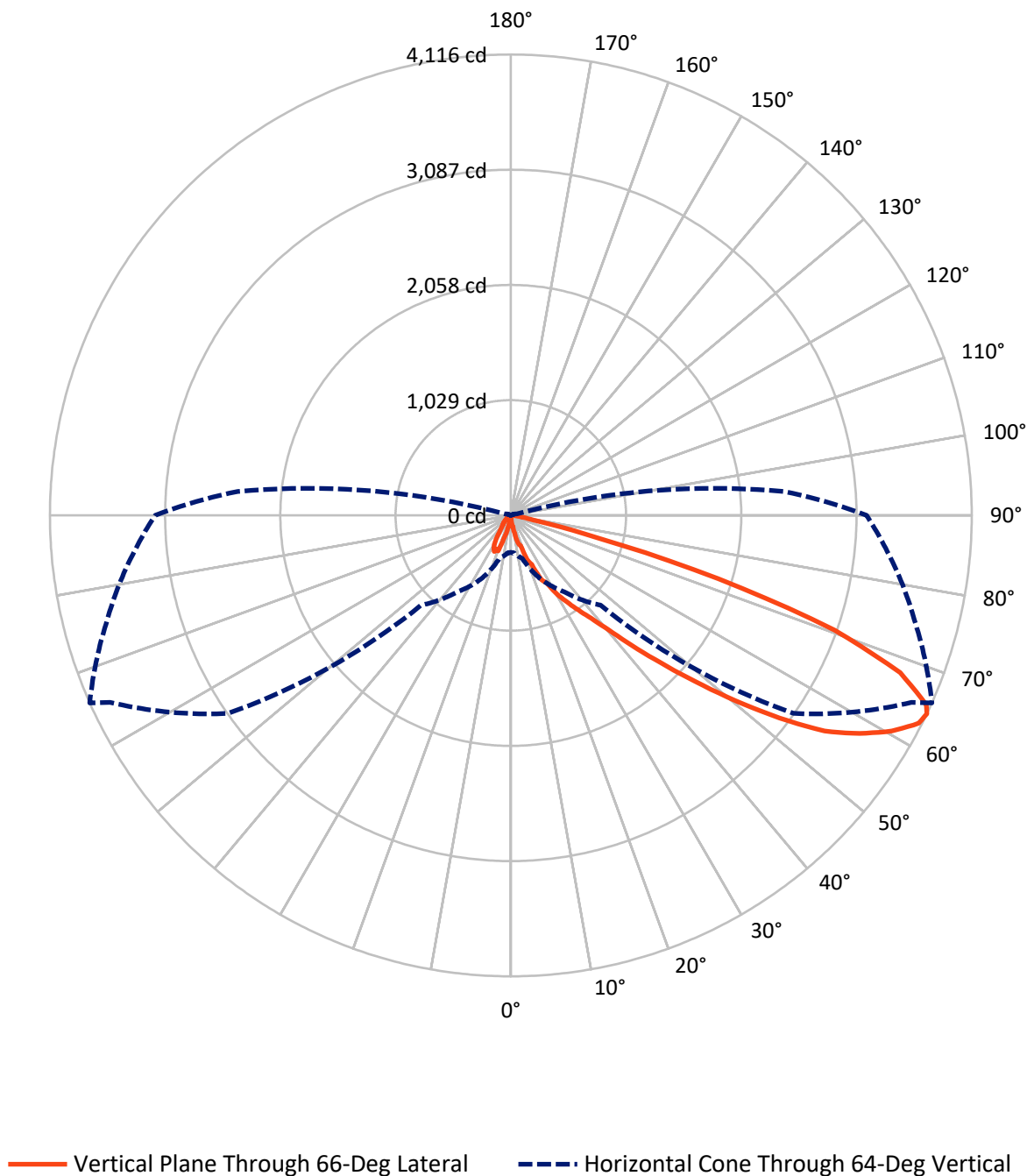


Based on 10 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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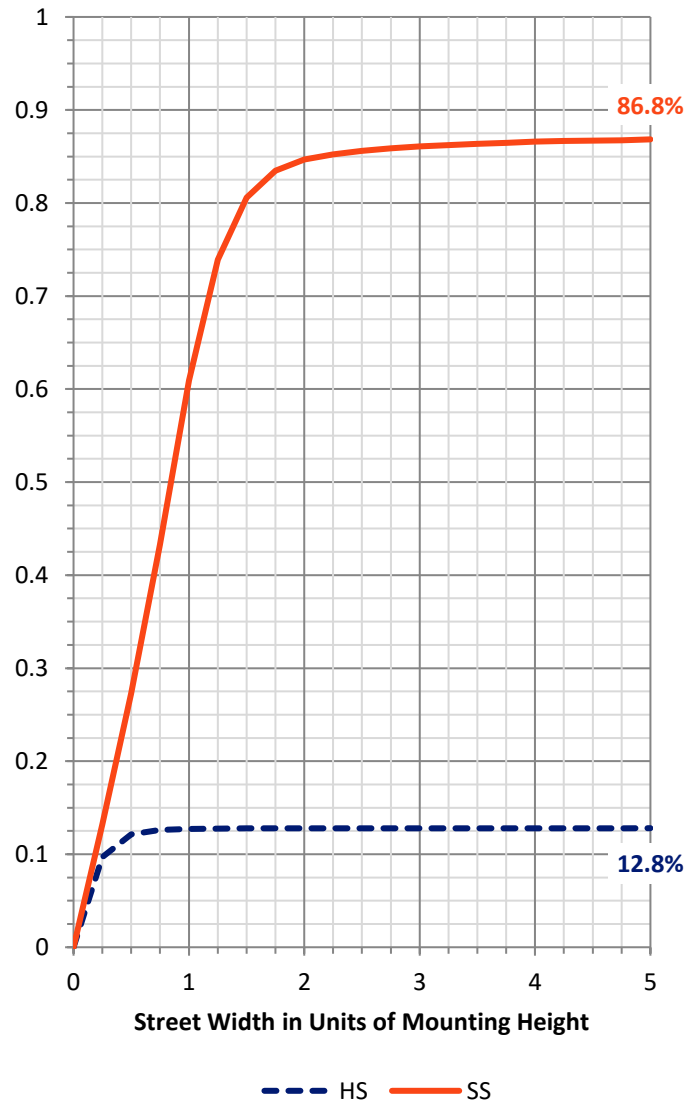
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	578.7	0.0	578.7
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	3887.3	0.0	3887.3
	% Fixture	87.0	0.0	87.0
Total	Lumens	4466.0	0.0	4466.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	0.1
10°-20°	58.3	1.3
20°-30°	181.2	4.1
30°-40°	454.9	10.2
40°-50°	986.7	22.1
50°-60°	1335.9	29.9
60°-70°	1050.2	23.5
70°-80°	371.4	8.3
80°-90°	22.4	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°	4466.0	100.0
0°-180°	4466.0	100.0

Coefficient of Utilization



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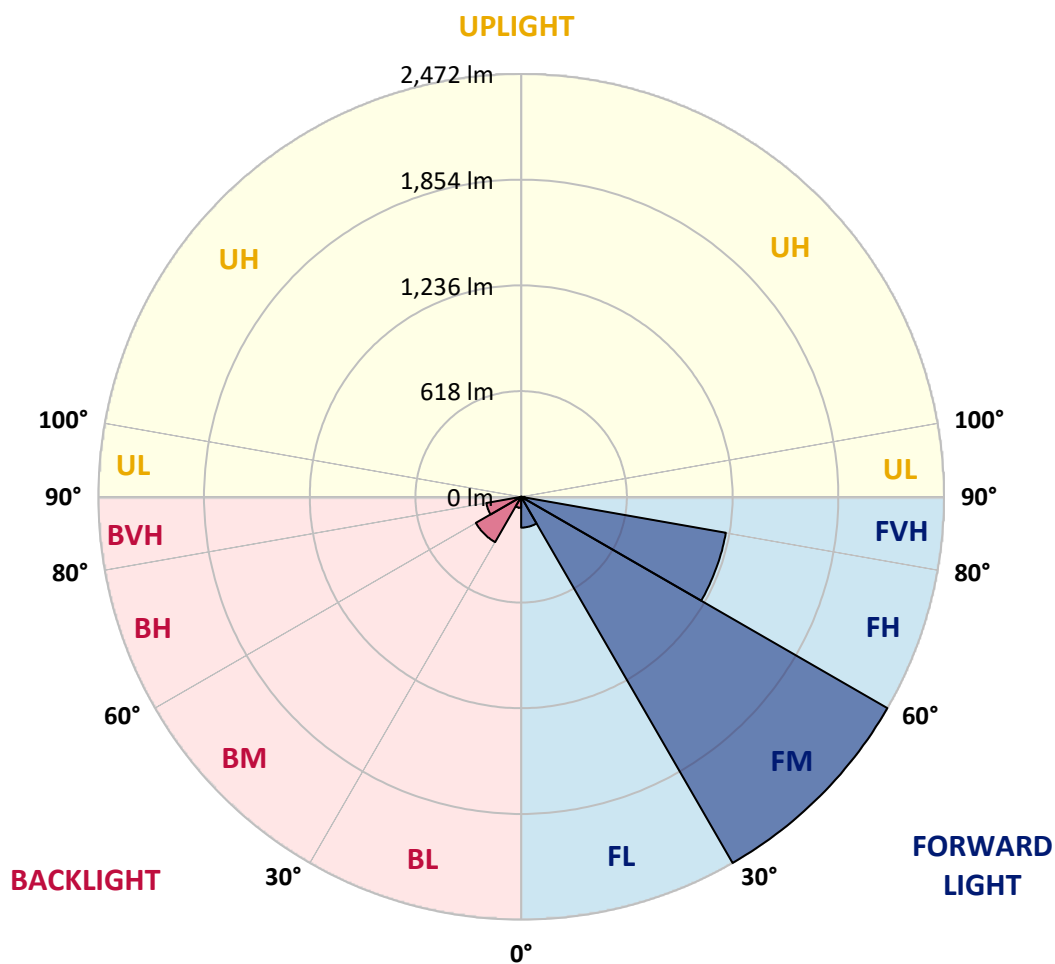
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	179.9	4.0			
FM	(30°-60°)	2471.8	55.3			
FH	(60°-80°)	1214.7	27.2			G1/1800
FVH	(80°-90°)	20.8	0.5			G1/100
BL	(0°-30°)	64.7	1.4	B0/110		
BM	(30°-60°)	305.7	6.8	B1/1000		
BH	(60°-80°)	206.8	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°	16.6	15.8	13.6	10.6	3.8	2.3	0.0	0.0	0.0	0.0	0.0
5°	134.2	135.0	135.8	135.8	135.8	135.0	51.3	3.8	3.0	0.0	0.0
7.5°	130.5	131.2	131.2	131.2	132.0	132.0	132.0	127.5	104.8	2.3	0.0
10°	246.6	247.4	248.9	181.0	135.0	129.7	129.7	105.6	101.8	13.6	5.3
12.5°	242.8	243.6	245.1	245.9	247.4	164.4	137.3	188.5	201.4	261.7	171.2
15°	280.6	293.4	264.7	248.1	248.1	233.0	276.0	267.0	267.7	272.3	175.7
17.5°	367.3	366.5	369.6	372.6	272.3	341.6	358.2	279.8	282.8	317.5	322.8
20°	380.1	381.6	377.8	383.9	450.2	359.0	358.2	426.9	423.9	424.6	382.4
22.5°	517.4	518.9	524.2	435.2	470.6	444.2	467.6	476.6	476.6	446.5	450.2
25°	556.6	553.6	558.9	550.6	554.3	537.0	505.3	608.6	637.3	609.4	606.4
27.5°	773.0	766.3	750.4	613.9	603.3	570.2	665.9	682.5	683.3	678.0	702.9
30°	915.6	917.8	874.1	800.2	671.2	656.9	736.1	797.2	818.3	887.7	866.6
32.5°	1365.8	1337.9	1213.5	950.3	828.9	773.0	819.0	936.7	922.4	968.4	968.4
35°	1785.9	1736.9	1547.6	1280.6	969.9	861.3	972.9	1009.1	1037.0	1076.2	1089.8
37.5°	2205.2	2185.6	1988.0	1625.3	1249.7	1006.8	1098.1	1167.5	1164.5	1215.7	1242.1
40°	2577.8	2552.9	2422.4	2055.9	1583.0	1227.1	1274.6	1343.2	1337.9	1435.2	1471.4
42.5°	2855.3	2838.8	2753.5	2382.5	1994.8	1601.1	1538.5	1568.0	1586.8	1690.9	1727.8
45°	3006.9	2977.5	2952.6	2641.9	2353.1	2049.9	1887.7	1852.3	1874.9	1977.5	2003.1
47.5°	2974.5	2938.3	2973.8	2796.5	2668.3	2442.1	2347.8	2229.4	2212.8	2344.8	2296.5
50°	2721.1	2698.5	2808.6	2796.5	2849.3	2767.1	2868.2	2626.1	2599.7	2673.6	2589.1
52.5°	2272.4	2272.4	2442.8	2554.4	2846.3	3000.2	3322.2	3049.2	3006.2	2992.6	2811.6
55°	1810.8	1822.9	1982.8	2144.2	2598.2	3062.7	3701.5	3437.6	3399.9	3220.4	2979.0
57.5°	1310.0	1323.6	1552.1	1687.1	2130.6	2848.6	3846.3	3688.7	3673.6	3402.9	3133.6
60°	767.8	800.2	1042.3	1269.3	1538.5	2293.5	3789.0	3861.4	3909.7	3550.0	3246.8
62.5°	452.5	466.1	550.6	860.5	1063.4	1560.4	3475.3	3947.4	4087.7	3674.4	3335.0
64°	330.3	337.1	397.5	623.0	832.6	1133.5	3080.8	3947.4	4115.6	3741.5	3359.1
65°	270.0	273.0	315.2	498.5	704.4	867.3	2710.5	3914.2	4078.6	3774.7	3353.9
67.5°	219.5	221.7	232.3	285.1	484.9	476.6	1602.6	3620.8	3750.6	3810.9	3272.4
70°	197.6	199.9	218.0	222.5	358.2	317.5	516.6	2976.0	3063.5	3623.9	3098.9
72.5°	150.1	156.1	188.5	216.5	248.1	237.6	247.4	1834.9	1936.7	2759.6	2644.2
75°	102.6	108.6	140.3	184.0	191.6	178.7	186.3	704.4	788.9	1433.7	1595.1
77.5°	65.6	66.4	87.5	133.5	171.2	122.2	141.0	198.4	230.8	485.7	497.0
80°	43.0	44.5	52.8	85.2	116.9	101.8	86.7	107.1	108.6	143.3	76.2
82.5°	26.4	25.6	34.7	52.8	71.6	86.0	53.5	69.4	72.4	84.5	32.4
85°	11.3	12.1	21.9	33.9	44.5	41.5	33.2	42.2	43.7	55.8	18.9
87.5°	4.5	4.5	12.8	18.9	19.6	19.6	20.4	22.6	22.6	34.7	12.1
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	0.8	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	3.0	69.4	99.6	99.6
10°	5.3	4.5	0.0	0.8	0.8	34.7	110.9	110.9	108.6	107.1	106.3
12.5°	169.7	195.3	187.0	80.7	62.6	98.8	104.8	92.8	83.0	78.4	76.9
15°	202.9	202.1	196.8	159.9	224.0	100.3	79.9	96.5	83.0	71.6	71.6
17.5°	337.9	320.5	267.7	217.2	202.9	135.8	80.7	55.1	45.3	42.2	42.2
20°	402.0	394.4	344.7	334.9	185.5	111.6	56.6	37.7	43.0	48.3	48.3
22.5°	494.0	490.2	362.0	319.0	184.8	67.9	45.3	45.3	44.5	42.2	42.2
25°	593.5	597.3	510.6	337.9	125.9	56.6	46.8	39.2	34.7	37.7	38.5
27.5°	724.0	629.0	514.4	311.5	86.0	52.8	40.0	37.7	37.0	35.4	35.4
30°	871.8	851.5	658.4	259.4	65.6	47.5	37.7	33.2	29.4	30.9	30.9
32.5°	973.7	911.1	646.3	196.1	56.6	41.5	32.4	27.9	28.7	29.4	28.7
35°	1076.2	1005.3	651.6	125.9	50.5	33.9	26.4	24.9	24.1	27.2	27.2
37.5°	1221.8	1132.0	641.8	79.2	42.2	27.9	22.6	21.9	22.6	23.4	23.4
40°	1400.5	1298.0	618.4	59.6	34.7	22.6	18.9	18.1	19.6	19.6	19.6
42.5°	1614.7	1479.0	557.3	52.0	29.4	18.1	15.1	15.1	16.6	16.6	16.6
45°	1870.4	1699.9	479.7	46.0	24.9	15.1	12.1	12.8	13.6	13.6	13.6
47.5°	2151.7	1942.8	380.9	40.0	21.1	12.1	9.8	9.8	10.6	10.6	10.6
50°	2411.9	2143.4	300.2	35.4	17.3	9.8	7.5	7.5	7.5	7.5	7.5
52.5°	2603.4	2275.4	218.7	30.9	15.1	7.5	5.3	5.3	5.3	5.3	5.3
55°	2759.6	2362.9	158.4	26.4	12.1	6.0	3.8	3.0	3.8	3.0	3.0
57.5°	2896.8	2417.9	113.9	21.9	9.8	3.8	1.5	1.5	1.5	1.5	1.5
60°	3021.3	2447.3	84.5	18.1	8.3	2.3	1.5	0.8	0.8	0.0	0.0
62.5°	3134.4	2457.9	64.1	14.3	6.8	1.5	0.8	0.0	0.0	0.0	0.0
64°	3175.9	2448.1	55.1	12.8	6.0	0.8	0.8	0.0	0.0	0.0	0.0
65°	3188.7	2424.7	49.8	11.3	5.3	0.8	0.8	0.0	0.0	0.0	0.0
67.5°	3149.5	2318.4	37.0	9.1	4.5	0.8	0.8	0.0	0.0	0.0	0.0
70°	2996.4	2117.8	27.2	7.5	3.0	0.0	0.8	0.0	0.0	0.0	0.0
72.5°	2450.3	1598.9	19.6	6.0	3.0	0.0	0.8	0.0	0.0	0.0	0.0
75°	1471.4	674.2	14.3	4.5	3.0	0.0	1.5	0.0	0.0	0.0	0.0
77.5°	444.2	217.2	10.6	3.8	3.8	0.0	2.3	0.8	0.0	0.0	0.0
80°	59.6	32.4	6.0	3.0	3.8	0.0	3.0	0.8	0.0	0.0	0.0
82.5°	21.9	10.6	3.8	3.0	3.8	0.0	3.0	2.3	0.8	0.8	0.0
85°	8.3	6.0	3.0	2.3	4.5	0.0	3.8	2.3	0.8	0.8	0.0
87.5°	3.8	3.0	2.3	2.3	4.5	0.0	3.8	3.0	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)