

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: P239349

Luminaire Tested: **UTLD-AF24-70-D-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239349
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-AF24-70-D-U-T2U-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 930mA 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: 4997 lumens
Efficiency: N/A
Efficacy: 67.5 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): 74
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

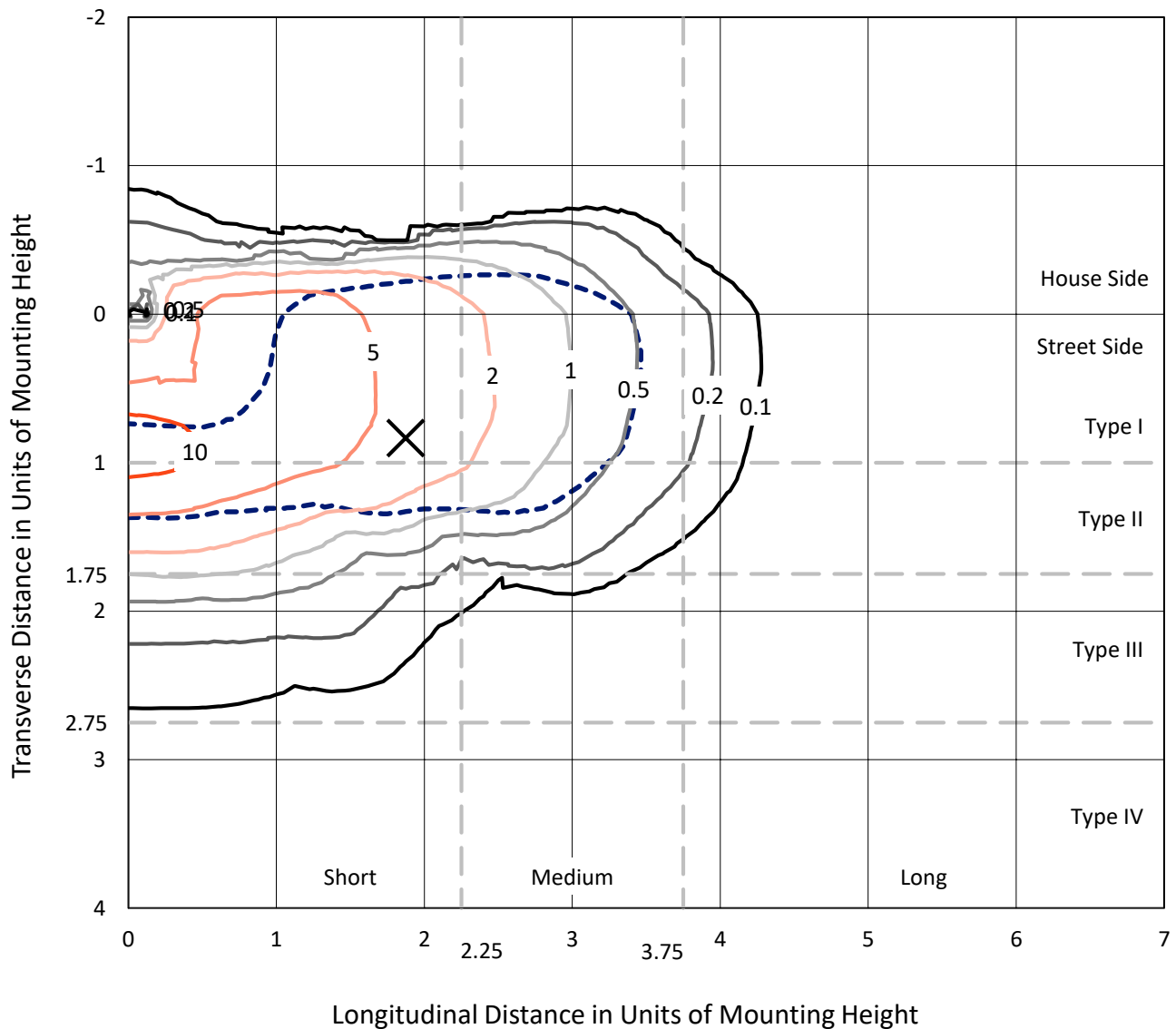


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

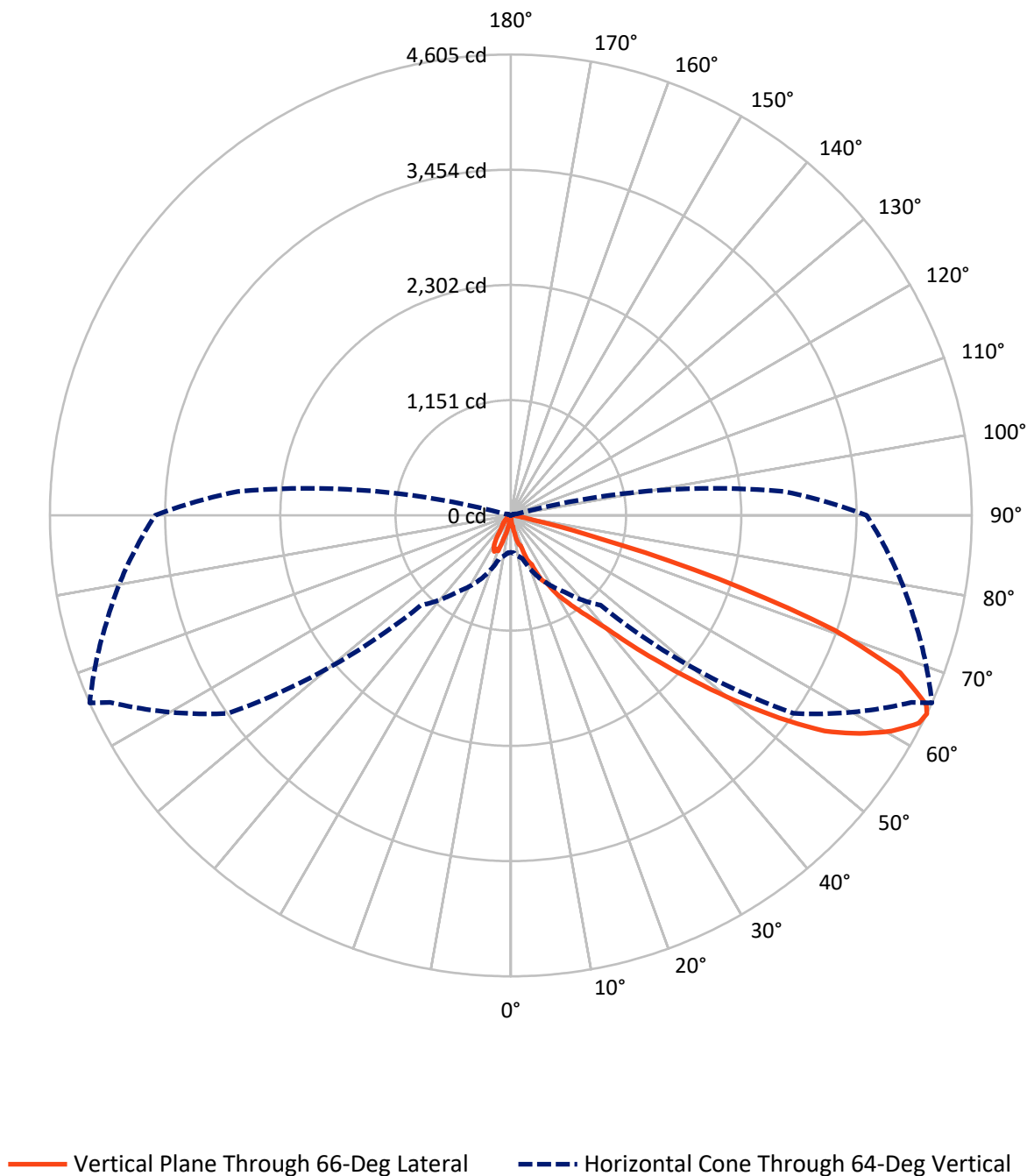


Based on 10 foot mounting height. Maximum calculated value = 12.9 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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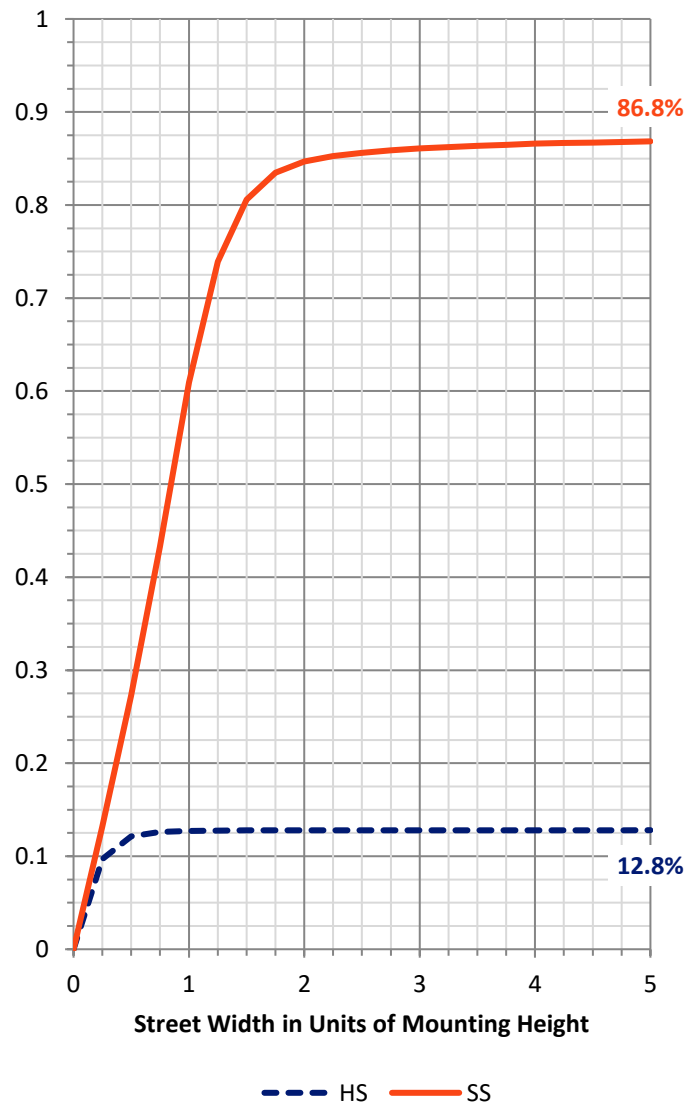
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	647.5	0.0	647.5
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	4349.5	0.0	4349.5
	% Fixture	87.0	0.0	87.0
Total	Lumens	4997.0	0.0	4997.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.1
10°-20°	65.2	1.3
20°-30°	202.7	4.1
30°-40°	509.0	10.2
40°-50°	1104.0	22.1
50°-60°	1494.8	29.9
60°-70°	1175.0	23.5
70°-80°	415.5	8.3
80°-90°	25.0	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°	4997.0	100.0
0°-180°	4997.0	100.0

Coefficient of Utilization



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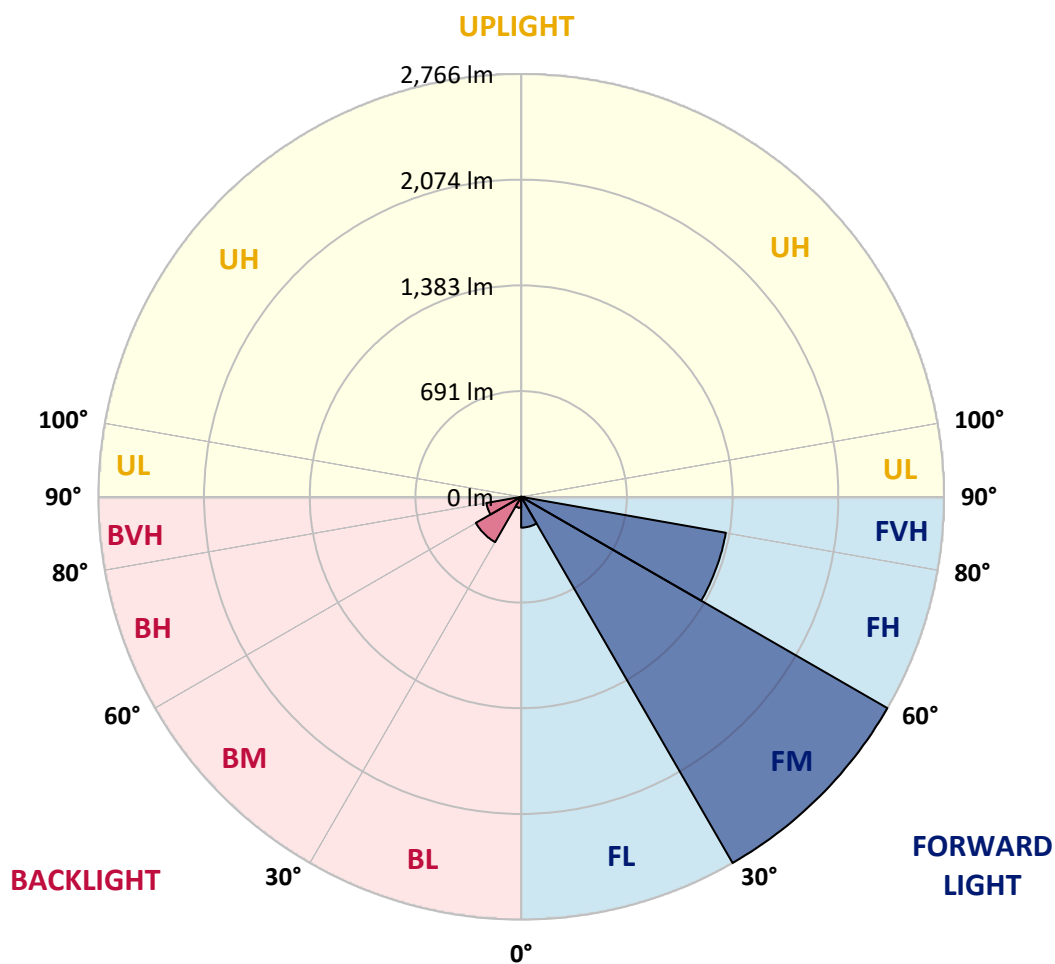
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	201.3	4.0			
FM	(30°-60°)	2765.7	55.3			
FH	(60°-80°)	1359.2	27.2			G1/1800
FVH	(80°-90°)	23.3	0.5			G1/100
BL	(0°-30°)	72.3	1.4	B0/110		
BM	(30°-60°)	342.0	6.8	B1/1000		
BH	(60°-80°)	231.4	4.6	B1/500		G1/500
BVH	(80°-90°)	1.7	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°	18.6	17.7	15.2	11.8	4.2	2.5	0.0	0.0	0.0	0.0	0.0
5°	150.2	151.1	151.9	151.9	151.9	151.1	57.4	4.2	3.4	0.0	0.0
7.5°	146.0	146.8	146.8	146.8	147.7	147.7	147.7	142.6	117.3	2.5	0.0
10°	275.9	276.8	278.5	202.5	151.1	145.1	145.1	118.1	113.9	15.2	5.9
12.5°	271.7	272.6	274.3	275.1	276.8	184.0	153.6	211.0	225.3	292.8	191.6
15°	313.9	328.3	296.2	277.6	277.6	260.8	308.9	298.7	299.6	304.6	196.6
17.5°	411.0	410.1	413.5	416.9	304.6	382.3	400.8	313.1	316.4	355.3	361.2
20°	425.3	427.0	422.8	429.5	503.8	401.7	400.8	477.6	474.2	475.1	427.8
22.5°	578.9	580.6	586.5	486.9	526.6	497.0	523.2	533.3	533.3	499.6	503.8
25°	622.8	619.4	625.3	616.0	620.2	600.8	565.4	681.0	713.1	681.8	678.5
27.5°	865.0	857.4	839.6	686.9	675.1	638.0	745.1	763.7	764.5	758.6	786.5
30°	1024.4	1027.0	978.0	895.3	751.0	735.0	823.6	892.0	915.6	993.2	969.6
32.5°	1528.2	1497.0	1357.8	1063.3	927.4	865.0	916.4	1048.1	1032.0	1083.5	1083.5
35°	1998.3	1943.4	1731.6	1432.9	1085.2	963.7	1088.6	1129.1	1160.3	1204.2	1219.4
37.5°	2467.4	2445.5	2224.4	1818.5	1398.3	1126.5	1228.7	1306.3	1302.9	1360.3	1389.8
40°	2884.3	2856.5	2710.5	2300.4	1771.3	1373.0	1426.1	1502.9	1497.0	1605.9	1646.4
42.5°	3194.8	3176.3	3080.9	2665.7	2232.0	1791.5	1721.5	1754.4	1775.5	1891.9	1933.3
45°	3364.5	3331.5	3303.7	2956.0	2632.8	2293.6	2112.2	2072.5	2097.8	2212.6	2241.3
47.5°	3328.2	3287.7	3327.3	3129.0	2985.6	2732.4	2626.9	2494.4	2475.9	2623.6	2569.5
50°	3044.6	3019.3	3142.5	3129.0	3188.1	3096.1	3209.2	2938.3	2908.8	2991.5	2897.0
52.5°	2542.5	2542.5	2733.3	2858.1	3184.7	3356.9	3717.2	3411.7	3363.6	3348.4	3145.9
55°	2026.1	2039.6	2218.5	2399.1	2907.1	3426.9	4141.7	3846.3	3804.1	3603.3	3333.2
57.5°	1465.8	1481.0	1736.7	1887.7	2383.9	3187.2	4303.7	4127.3	4110.4	3807.5	3506.2
60°	859.0	895.3	1166.2	1420.2	1721.5	2566.2	4239.5	4320.5	4374.6	3972.0	3632.8
62.5°	506.3	521.5	616.0	962.8	1189.8	1745.9	3888.5	4416.7	4573.7	4111.3	3731.5
64°	369.6	377.2	444.7	697.0	931.6	1268.3	3447.2	4416.7	4604.9	4186.4	3758.5
65°	302.1	305.5	352.7	557.8	788.2	970.4	3032.8	4379.6	4563.6	4223.5	3752.6
67.5°	245.6	248.1	259.9	319.0	542.6	533.3	1793.2	4051.4	4196.5	4264.0	3661.5
70°	221.1	223.6	243.9	248.9	400.8	355.3	578.0	3329.9	3427.7	4054.7	3467.4
72.5°	167.9	174.7	211.0	242.2	277.6	265.8	276.8	2053.1	2167.0	3087.7	2958.6
75°	114.8	121.5	157.0	205.9	214.3	200.0	208.4	788.2	882.7	1604.2	1784.8
77.5°	73.4	74.3	97.9	149.4	191.6	136.7	157.8	221.9	258.2	543.4	556.1
80°	48.1	49.8	59.1	95.4	130.8	113.9	97.0	119.8	121.5	160.3	85.2
82.5°	29.5	28.7	38.8	59.1	80.2	96.2	59.9	77.6	81.0	94.5	36.3
85°	12.7	13.5	24.5	38.0	49.8	46.4	37.1	47.3	48.9	62.4	21.1
87.5°	5.1	5.1	14.3	21.1	21.9	21.9	22.8	25.3	25.3	38.8	13.5
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	3.4	77.6	111.4	111.4
10°	5.9	5.1	0.0	0.8	0.8	38.8	124.0	124.0	121.5	119.8	119.0
12.5°	189.9	218.6	209.3	90.3	70.0	110.5	117.3	103.8	92.8	87.8	86.1
15°	227.0	226.2	220.2	178.9	250.6	112.2	89.4	108.0	92.8	80.2	80.2
17.5°	378.0	358.6	299.6	243.0	227.0	151.9	90.3	61.6	50.6	47.3	47.3
20°	449.8	441.3	385.6	374.7	207.6	124.9	63.3	42.2	48.1	54.0	54.0
22.5°	552.7	548.5	405.1	357.0	206.7	75.9	50.6	50.6	49.8	47.3	47.3
25°	664.1	668.3	571.3	378.0	140.9	63.3	52.3	43.9	38.8	42.2	43.0
27.5°	810.1	703.8	575.5	348.5	96.2	59.1	44.7	42.2	41.3	39.7	39.7
30°	975.5	952.7	736.7	290.3	73.4	53.2	42.2	37.1	32.9	34.6	34.6
32.5°	1089.4	1019.4	723.2	219.4	63.3	46.4	36.3	31.2	32.1	32.9	32.1
35°	1204.2	1124.9	729.1	140.9	56.5	38.0	29.5	27.8	27.0	30.4	30.4
37.5°	1367.0	1266.6	718.1	88.6	47.3	31.2	25.3	24.5	25.3	26.2	26.2
40°	1567.0	1452.3	692.0	66.7	38.8	25.3	21.1	20.3	21.9	21.9	21.9
42.5°	1806.7	1654.8	623.6	58.2	32.9	20.3	16.9	16.9	18.6	18.6	18.6
45°	2092.8	1902.1	536.7	51.5	27.8	16.9	13.5	14.3	15.2	15.2	15.2
47.5°	2407.5	2173.8	426.1	44.7	23.6	13.5	11.0	11.0	11.8	11.8	11.8
50°	2698.7	2398.2	335.9	39.7	19.4	11.0	8.4	8.4	8.4	8.4	8.4
52.5°	2913.0	2545.9	244.7	34.6	16.9	8.4	5.9	5.9	5.9	5.9	5.9
55°	3087.7	2643.8	177.2	29.5	13.5	6.8	4.2	3.4	4.2	3.4	3.4
57.5°	3241.3	2705.4	127.4	24.5	11.0	4.2	1.7	1.7	1.7	1.7	1.7
60°	3380.5	2738.3	94.5	20.3	9.3	2.5	1.7	0.8	0.8	0.0	0.0
62.5°	3507.1	2750.1	71.7	16.0	7.6	1.7	0.8	0.0	0.0	0.0	0.0
64°	3553.5	2739.2	61.6	14.3	6.8	0.8	0.8	0.0	0.0	0.0	0.0
65°	3567.8	2713.0	55.7	12.7	5.9	0.8	0.8	0.0	0.0	0.0	0.0
67.5°	3523.9	2594.0	41.3	10.1	5.1	0.8	0.8	0.0	0.0	0.0	0.0
70°	3352.6	2369.6	30.4	8.4	3.4	0.0	0.8	0.0	0.0	0.0	0.0
72.5°	2741.7	1789.0	21.9	6.8	3.4	0.0	0.8	0.0	0.0	0.0	0.0
75°	1646.4	754.4	16.0	5.1	3.4	0.0	1.7	0.0	0.0	0.0	0.0
77.5°	497.0	243.0	11.8	4.2	4.2	0.0	2.5	0.8	0.0	0.0	0.0
80°	66.7	36.3	6.8	3.4	4.2	0.0	3.4	0.8	0.0	0.0	0.0
82.5°	24.5	11.8	4.2	3.4	4.2	0.0	3.4	2.5	0.8	0.8	0.0
85°	9.3	6.8	3.4	2.5	5.1	0.0	4.2	2.5	0.8	0.8	0.0
87.5°	4.2	3.4	2.5	2.5	5.1	0.0	4.2	3.4	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)