

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: P841815

Luminaire Tested: **ARCH4-230-730-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-230-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23489 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 231.2
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: 24 FT

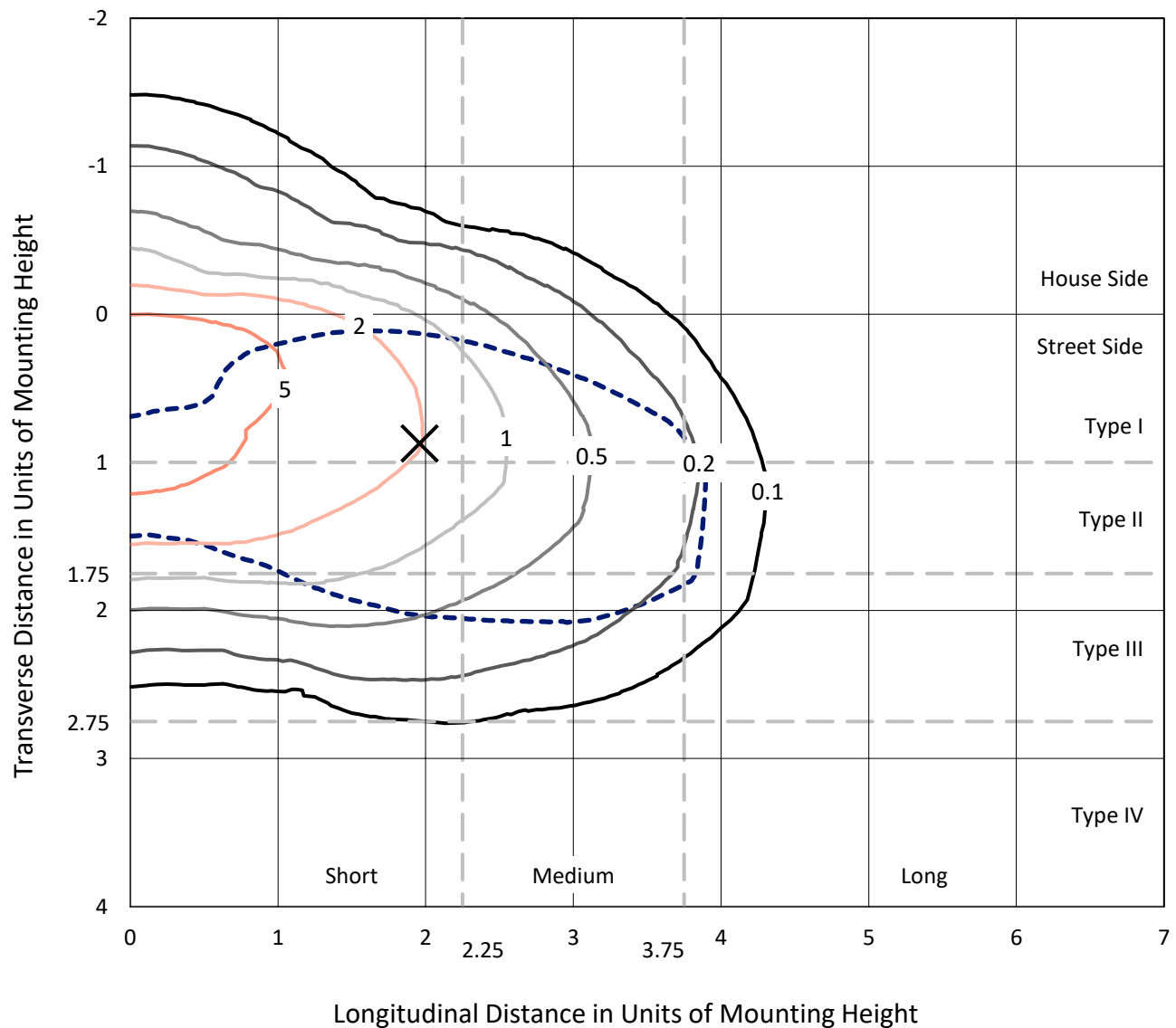


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Iso-Footcandle Lines of Horizontal Illumination

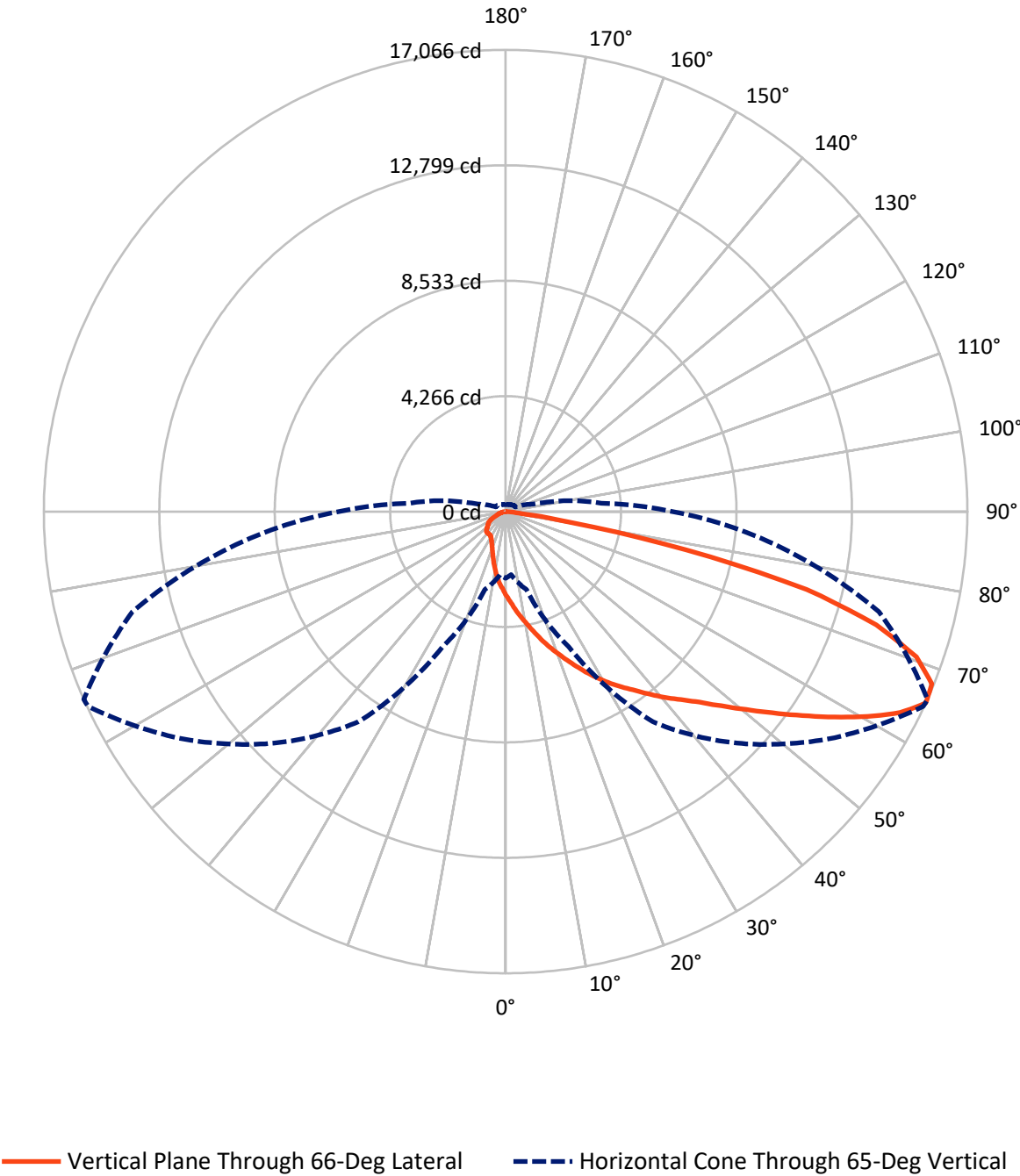
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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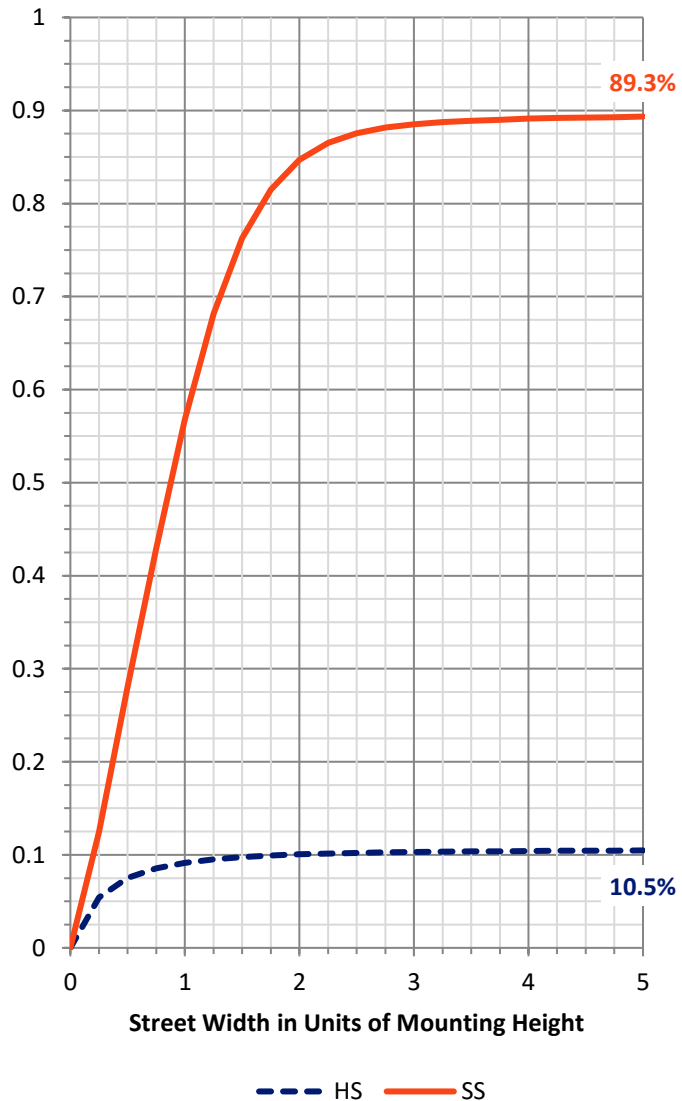
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2484.5	0.0	2484.5
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	21004.5	0.0	21004.5
	% Fixture	89.4	0.0	89.4
Total	Lumens	23489.0	0.0	23489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.8	1.3
10°-20°	1000.0	4.3
20°-30°	1809.4	7.7
30°-40°	2829.3	12.0
40°-50°	4292.1	18.3
50°-60°	5453.3	23.2
60°-70°	5095.5	21.7
70°-80°	2532.4	10.8
80°-90°	170.2	0.7
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°	23489.0	100.0
0°-180°	23489.0	100.0

Coefficient of Utilization



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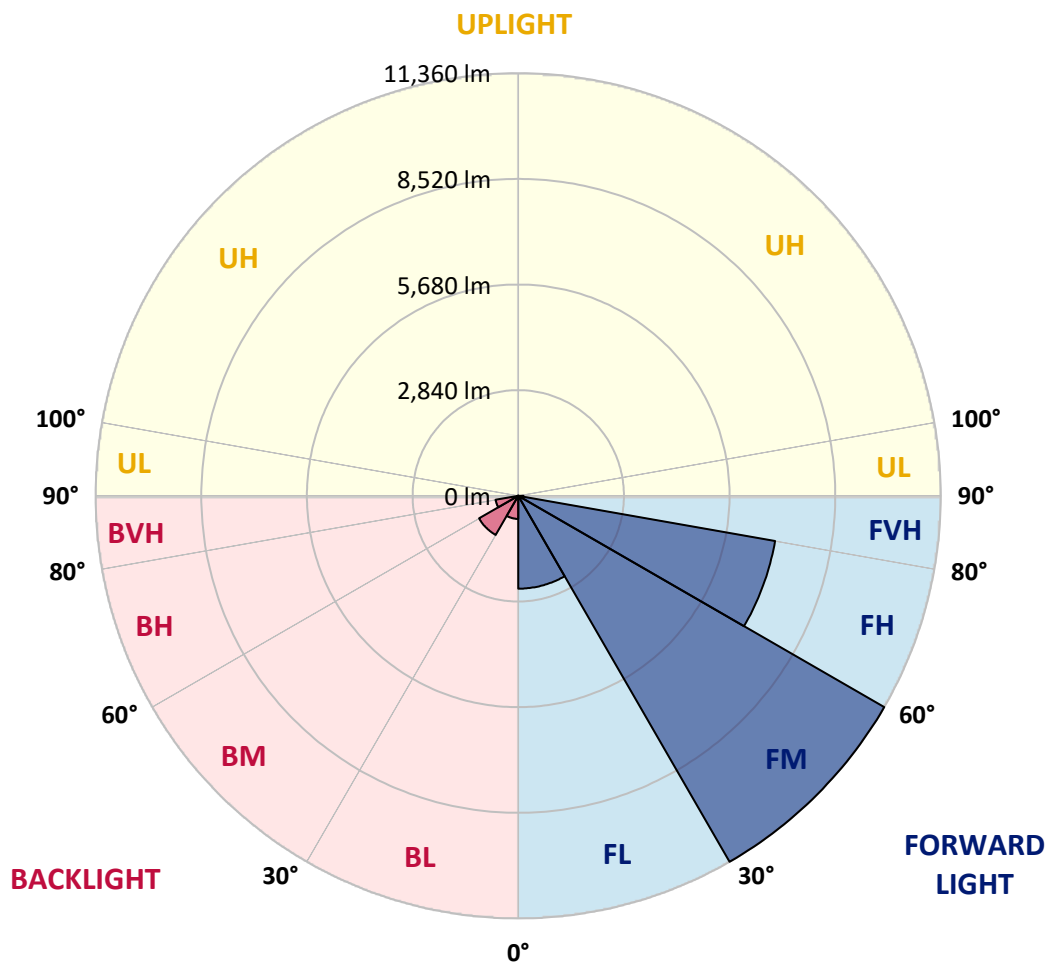
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2495.7	10.6			
FM	(30°-60°)	11359.5	48.4			
FH	(60°-80°)	7009.2	29.8			G3/7500
FVH	(80°-90°)	140.0	0.6			G2/225
BL	(0°-30°)	620.5	2.6	B2/1000		
BM	(30°-60°)	1215.2	5.2	B2/2500		
BH	(60°-80°)	618.7	2.6	B2/1000		G2/1000
BVH	(80°-90°)	30.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3108.6	3108.6	3108.6	3108.6	3108.6	3108.6	3108.6	3108.6	3108.6	3108.6	3108.6
2.5°	3630.9	3660.4	3675.2	3680.1	3566.8	3517.5	3468.3	3355.0	3330.3	3266.3	3182.5
5°	4271.3	4310.7	4300.9	4281.2	4143.2	3985.6	3857.5	3645.6	3611.1	3458.4	3271.2
7.5°	4901.9	4936.4	4926.5	4852.6	4699.9	4478.2	4266.4	3956.0	3906.7	3660.4	3359.9
10°	5429.0	5458.6	5453.7	5379.8	5197.5	4926.5	4670.4	4256.5	4197.4	3847.6	3433.8
12.5°	5862.6	5902.0	5897.1	5847.8	5685.2	5389.6	5099.0	4601.4	4527.5	4074.2	3537.2
15°	6202.5	6251.8	6251.8	6232.1	6118.7	5872.4	5542.3	4980.7	4892.0	4335.3	3665.3
17.5°	6409.4	6448.8	6483.3	6517.8	6439.0	6251.8	5951.2	5360.1	5266.5	4591.5	3798.4
20°	6517.8	6557.2	6581.8	6655.7	6670.5	6576.9	6340.4	5734.5	5636.0	4882.2	3951.1
22.5°	6695.2	6729.6	6734.6	6798.6	6828.2	6852.8	6705.0	6104.0	6025.1	5202.4	4123.5
25°	6990.7	7030.2	7015.4	7044.9	7049.9	7079.4	7064.6	6527.7	6448.8	5567.0	4330.4
27.5°	7370.1	7419.4	7409.5	7379.9	7335.6	7311.0	7375.0	6956.3	6882.4	5931.5	4542.3
30°	7779.0	7838.1	7823.3	7764.2	7646.0	7542.5	7631.2	7360.2	7291.3	6306.0	4778.7
32.5°	8192.8	8261.8	8256.9	8158.3	7956.3	7779.0	7912.0	7739.6	7690.3	6709.9	5034.9
35°	8463.8	8552.5	8542.6	8483.5	8222.4	8069.7	8232.2	8128.8	8094.3	7202.6	5404.4
37.5°	8902.2	8995.8	8912.1	8764.3	8463.8	8385.0	8582.0	8567.2	8542.6	7724.8	5793.6
40°	9966.4	10104.3	9882.6	9276.7	8784.0	8715.0	8995.8	9055.0	9030.3	8242.1	6143.4
42.5°	11079.8	11286.7	10941.8	10104.3	9365.3	9114.1	9449.1	9532.8	9503.3	8685.5	6458.7
45°	11754.7	11843.4	11498.5	10848.2	10395.0	9596.9	9931.9	10069.8	10045.2	9217.5	6862.7
47.5°	12306.5	12272.0	11877.9	11439.4	11523.2	10276.7	10478.7	10749.7	10730.0	9803.8	7306.0
50°	12424.7	12345.9	12188.2	11912.3	12134.0	10966.5	11055.1	11523.2	11503.4	10454.1	7754.4
52.5°	11592.1	11488.7	11917.3	12148.8	12074.9	11469.0	11690.7	12370.5	12360.7	11158.6	8183.0
55°	9513.1	9429.4	10582.2	11779.3	12010.9	11823.7	12395.1	13252.4	13306.6	11907.4	8572.2
57.5°	7483.4	7394.7	8527.8	10853.1	11774.4	12148.8	13217.9	14262.3	14331.3	12720.3	8941.7
60°	5966.0	5833.0	6700.1	9394.9	11331.0	12400.1	14011.1	15370.8	15380.6	13464.2	9168.3
62.5°	4054.5	3906.7	4867.4	7547.4	10587.1	12439.5	14621.9	16326.5	16365.9	14020.9	9207.7
65°	2463.3	2340.1	2990.4	5512.8	9488.5	12104.5	14631.8	17031.0	17065.5	14277.1	8971.2
67.5°	1428.7	1379.4	1709.5	3433.8	7665.7	11202.9	14016.0	16922.6	16986.7	14168.7	8434.2
70°	832.6	827.7	950.8	1699.7	5409.3	9414.6	12641.5	16011.2	16104.8	13602.1	7611.5
72.5°	610.9	620.7	670.0	911.4	3133.3	6778.9	10705.3	14178.6	14321.4	12493.7	6439.0
75°	482.8	487.7	532.1	620.7	1645.5	3832.8	8020.4	11380.3	11493.6	10518.1	5030.0
77.5°	359.6	369.5	404.0	438.5	763.6	1758.8	4512.7	7010.5	6823.2	5773.9	2428.8
80°	261.1	285.7	300.5	315.3	404.0	679.9	1354.8	2443.6	2423.9	2522.4	1147.9
82.5°	167.5	187.2	202.0	211.8	241.4	325.2	404.0	546.8	591.2	980.4	458.2
85°	73.9	83.8	93.6	113.3	103.5	113.3	167.5	108.4	93.6	147.8	83.8
87.5°	0.0	0.0	14.8	24.6	19.7	9.9	29.6	19.7	14.8	14.8	14.8
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°	3108.6	3108.6	3108.6	3108.6	3108.6	3108.6	3108.6	3108.6	3108.6	3108.6	3108.6
2.5°	3138.2	3084.0	2970.7	2862.3	2798.3	2714.5	2640.6	2571.6	2566.7	2547.0	2512.5
5°	3177.6	3074.2	2862.3	2660.3	2507.6	2345.0	2207.1	2098.7	2059.3	2029.7	1990.3
7.5°	3217.0	3054.4	2739.2	2443.6	2202.2	1975.5	1813.0	1665.2	1620.8	1581.4	1556.8
10°	3231.8	3020.0	2596.3	2202.2	1886.9	1645.5	1473.0	1364.6	1325.2	1305.5	1290.8
12.5°	3276.1	3000.3	2463.3	1975.5	1611.0	1389.3	1266.1	1202.1	1187.3	1172.5	1157.7
15°	3335.3	3000.3	2330.2	1753.8	1394.2	1216.9	1143.0	1098.6	1088.8	1083.8	1074.0
17.5°	3399.3	3000.3	2202.2	1566.6	1236.6	1103.5	1049.4	1024.7	1019.8	1014.9	1009.9
20°	3488.0	3005.2	2064.2	1404.1	1123.2	1019.8	975.5	945.9	941.0	936.0	936.0
22.5°	3576.7	3015.0	1931.2	1280.9	1049.4	955.7	901.6	872.0	862.1	862.1	862.1
25°	3690.0	3044.6	1808.0	1177.4	985.3	896.6	827.7	803.0	798.1	798.1	793.2
27.5°	3823.0	3079.1	1699.7	1098.6	921.3	827.7	758.7	734.1	724.2	724.2	719.3
30°	3965.9	3113.6	1611.0	1039.5	857.2	758.7	694.6	665.1	655.2	660.2	655.2
32.5°	4123.5	3162.8	1542.0	1000.1	798.1	699.6	640.4	606.0	601.0	601.0	596.1
35°	4389.5	3300.8	1532.2	980.4	748.8	655.2	596.1	561.6	556.7	556.7	551.8
37.5°	4675.3	3458.4	1576.5	970.5	709.4	615.8	561.6	527.1	522.2	522.2	522.2
40°	4916.7	3576.7	1625.8	970.5	684.8	581.3	532.1	502.5	502.5	502.5	502.5
42.5°	5079.3	3586.5	1615.9	970.5	665.1	556.7	512.4	482.8	482.8	487.7	482.8
45°	5320.7	3635.8	1576.5	955.7	650.3	537.0	492.7	468.0	463.1	468.0	468.0
47.5°	5606.4	3724.5	1537.1	896.6	645.4	517.3	477.9	448.3	443.4	448.3	443.4
50°	5877.4	3803.3	1517.4	817.8	635.5	497.6	458.2	428.6	423.7	428.6	423.7
52.5°	6104.0	3837.8	1482.9	763.6	610.9	477.9	438.5	408.9	399.0	404.0	404.0
55°	6286.3	3827.9	1433.6	719.3	566.6	458.2	413.8	389.2	374.4	374.4	369.5
57.5°	6453.8	3832.8	1389.3	674.9	517.3	428.6	394.1	364.6	344.9	339.9	335.0
60°	6517.8	3808.2	1310.5	615.8	468.0	404.0	369.5	335.0	315.3	310.4	305.4
62.5°	6429.1	3719.5	1207.0	512.4	423.7	374.4	344.9	310.4	290.7	285.7	280.8
65°	6177.9	3552.0	1049.4	404.0	384.3	339.9	315.3	290.7	266.0	256.2	251.3
67.5°	5749.3	3310.6	852.3	325.2	339.9	310.4	295.6	266.0	236.5	226.6	221.7
70°	5138.4	2990.4	640.4	275.9	300.5	275.9	266.0	236.5	211.8	202.0	197.1
72.5°	4281.2	2473.1	448.3	236.5	261.1	241.4	231.5	211.8	187.2	172.4	172.4
75°	3236.7	1773.6	295.6	202.0	216.8	206.9	192.1	177.4	162.6	152.7	147.8
77.5°	1394.2	689.7	182.3	152.7	177.4	172.4	152.7	142.9	137.9	128.1	128.1
80°	601.0	280.8	113.3	113.3	128.1	123.2	118.2	108.4	108.4	103.5	98.5
82.5°	221.7	113.3	69.0	83.8	93.6	83.8	83.8	83.8	83.8	78.8	78.8
85°	54.2	34.5	34.5	49.3	54.2	49.3	54.2	49.3	49.3	49.3	44.3
87.5°	14.8	14.8	19.7	19.7	19.7	19.7	19.7	14.8	0.0	0.0	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)