

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: P836396

Luminaire Tested: **ARCH3-180-730-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-180-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16847 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

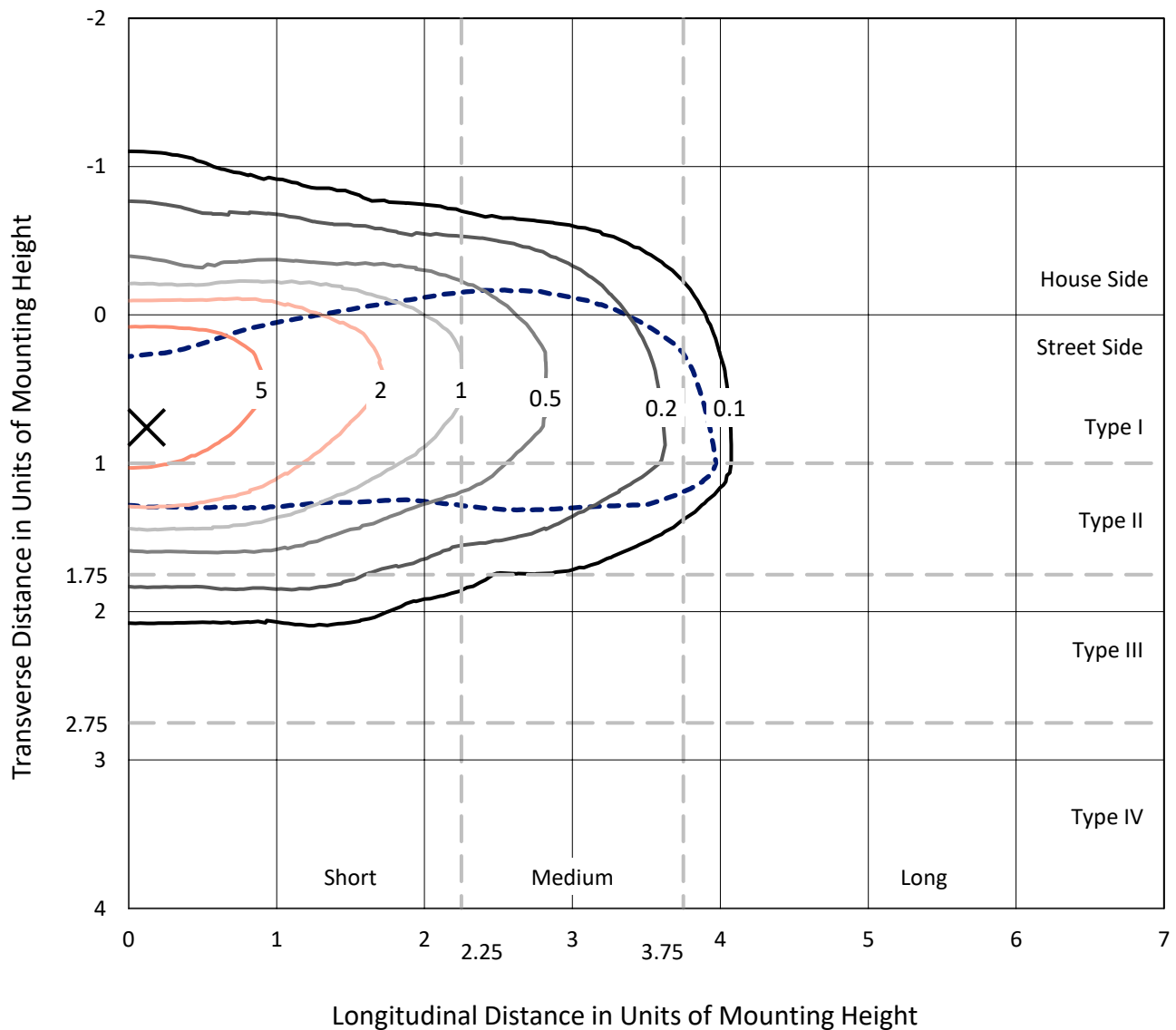
Input Watts (W): 180.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

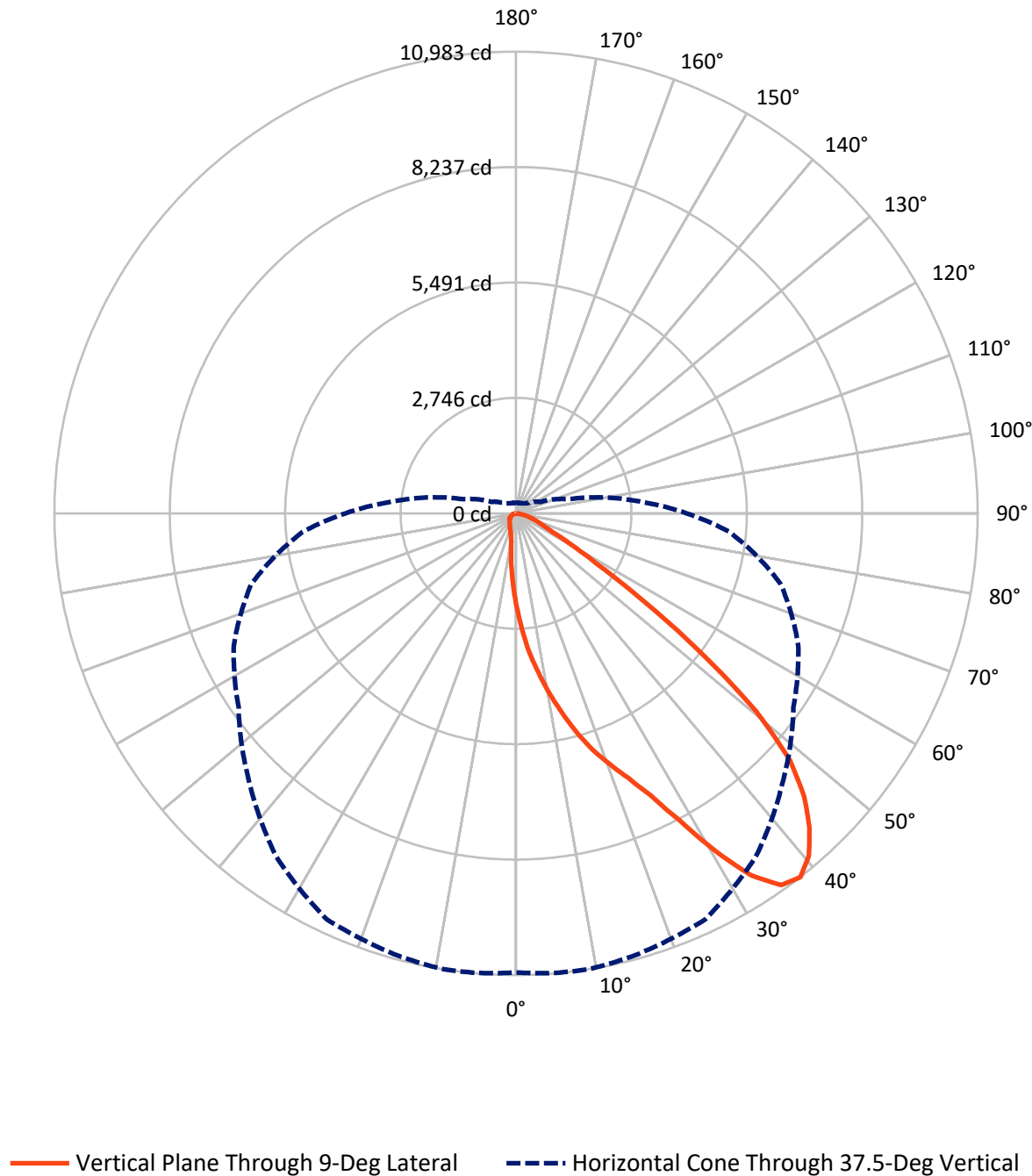
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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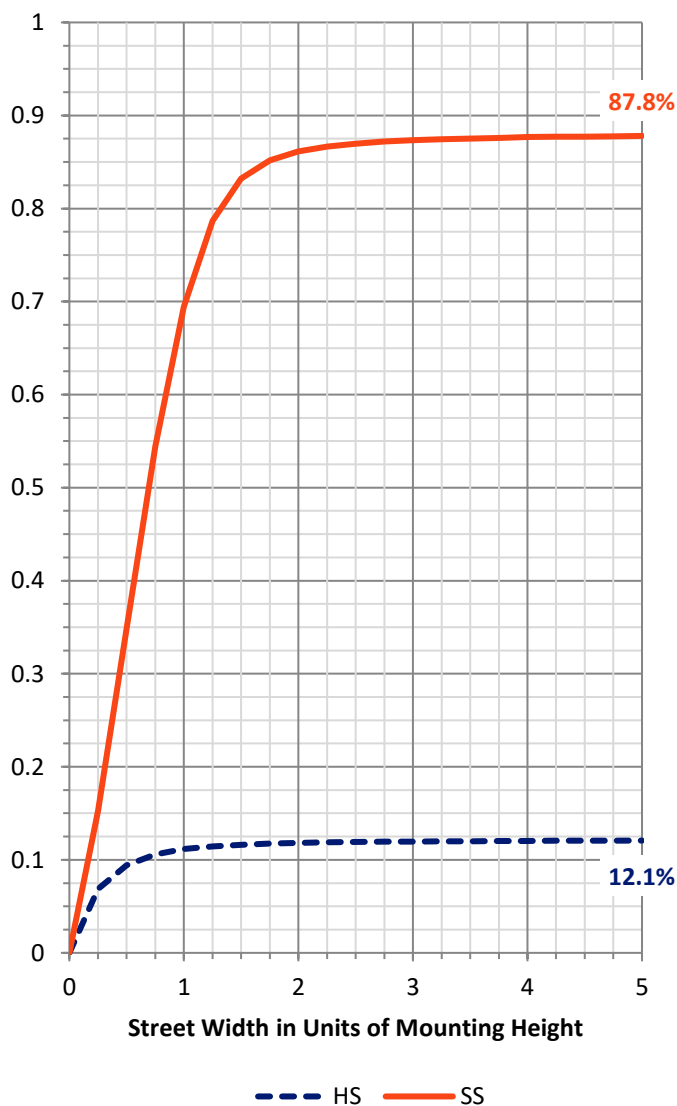
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2048.9	0.0	2048.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	14798.1	0.0	14798.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	16847.0	0.0	16847.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.8	1.3
10°-20°	778.0	4.6
20°-30°	1598.6	9.5
30°-40°	2825.7	16.8
40°-50°	3753.7	22.3
50°-60°	3560.1	21.1
60°-70°	2716.1	16.1
70°-80°	1316.8	7.8
80°-90°	74.1	0.4
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°	16847.0	100.0
0°-180°	16847.0	100.0

Coefficient of Utilization



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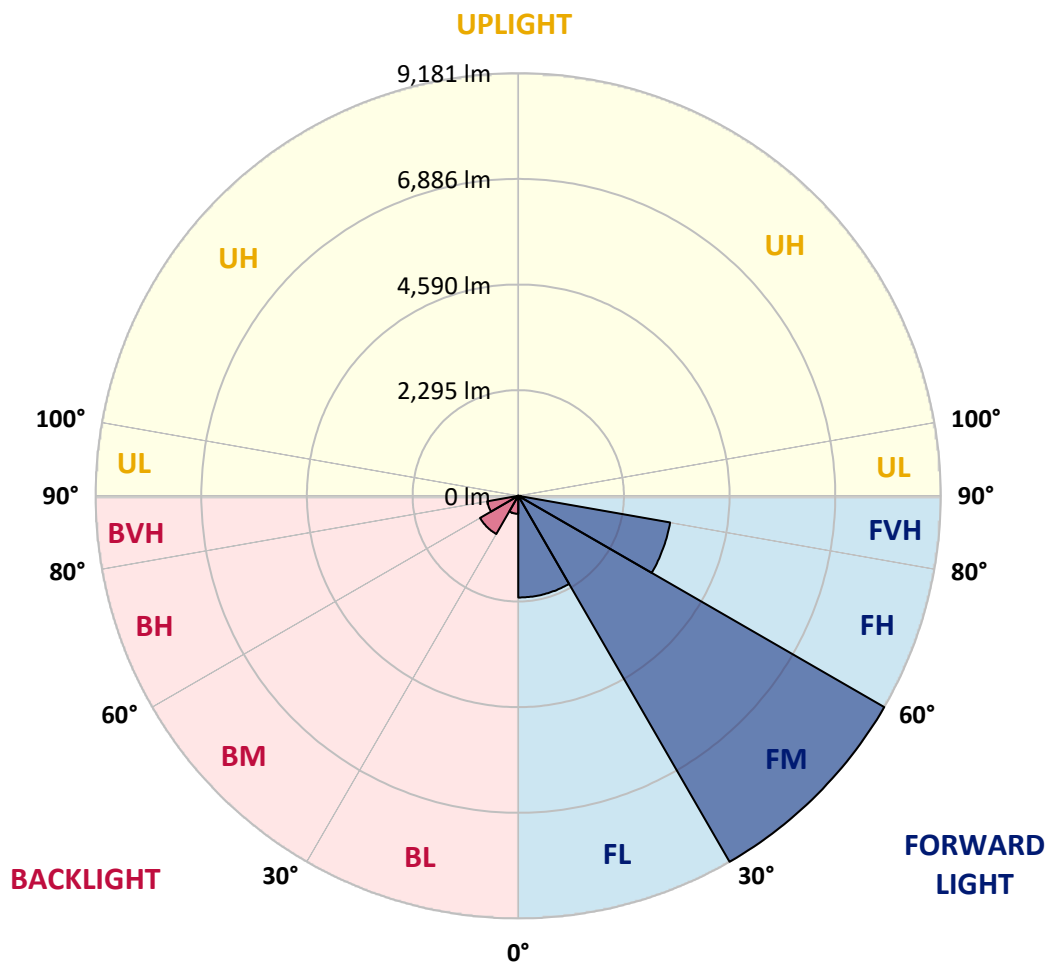
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2209.5	13.1			
FM	(30°-60°)	9180.8	54.5			
FH	(60°-80°)	3349.1	19.9			G2/5000
FVH	(80°-90°)	58.7	0.3			G1/100
BL	(0°-30°)	391.0	2.3	B1/500		
BM	(30°-60°)	958.8	5.7	B1/1000		
BH	(60°-80°)	683.7	4.1	B2/1000		G2/1000
BVH	(80°-90°)	15.4	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2227.0	2227.0	2227.0	2227.0	2227.0	2227.0	2227.0	2227.0	2227.0	2227.0	2227.0
2.5°	2759.5	2711.1	2766.4	2759.5	2711.1	2680.0	2583.1	2552.0	2437.9	2354.9	2282.3
5°	3326.6	3278.2	3326.6	3312.8	3243.6	3167.6	3008.5	2904.7	2700.7	2520.9	2358.4
7.5°	3796.9	3796.9	3817.7	3821.1	3738.1	3620.6	3423.4	3267.8	2980.8	2704.2	2444.8
10°	4305.2	4308.7	4353.7	4322.5	4211.9	4052.8	3803.8	3606.7	3260.9	2897.8	2527.8
12.5°	4848.2	4851.6	4865.4	4851.6	4720.2	4516.2	4215.3	3956.0	3558.3	3119.1	2641.9
15°	5391.1	5394.5	5411.8	5387.6	5242.4	5003.8	4661.4	4343.3	3873.0	3368.1	2780.3
17.5°	5899.4	5906.3	5920.1	5889.0	5736.9	5453.3	5104.0	4720.2	4208.4	3634.4	2935.9
20°	6355.9	6362.8	6373.1	6331.6	6179.5	5895.9	5519.0	5117.9	4550.8	3907.6	3105.3
22.5°	6815.8	6822.7	6840.0	6784.6	6615.2	6290.2	5920.1	5505.2	4913.9	4208.4	3302.4
25°	7403.6	7410.6	7424.4	7344.8	7113.2	6732.8	6342.0	5916.7	5308.1	4547.3	3544.5
27.5°	8264.7	8257.8	8257.8	8112.5	7714.9	7220.4	6767.4	6335.1	5733.4	4910.4	3810.7
30°	9329.8	9312.5	9302.1	9105.0	8537.9	7770.2	7203.1	6725.9	6141.5	5294.2	4097.8
32.5°	10284.2	10284.2	10263.4	10055.9	9454.2	8510.2	7666.4	7106.2	6535.7	5681.5	4395.2
35°	10847.8	10872.0	10861.7	10706.1	10266.9	9305.6	8292.3	7562.7	6950.6	6086.1	4751.3
37.5°	10923.9	10972.3	10982.7	10889.3	10657.6	9955.7	8987.4	8057.2	7407.1	6521.8	5097.1
40°	10616.1	10719.9	10719.9	10706.1	10623.1	10263.4	9571.8	8631.2	7877.4	6974.8	5446.4
42.5°	10142.4	10249.6	10235.8	10287.6	10266.9	10190.8	9900.3	9167.2	8347.7	7441.7	5764.5
45°	9523.4	9634.1	9606.4	9699.8	9741.3	9824.3	9865.8	9540.7	8811.1	7950.0	6120.7
47.5°	8531.0	8717.7	8759.2	8925.2	9098.1	9357.4	9554.5	9675.6	9243.3	8496.4	6508.0
50°	7064.7	7327.6	7410.6	7759.8	8233.6	8769.6	9087.7	9509.6	9547.6	9056.6	6926.4
52.5°	5059.1	5363.4	5491.3	6065.4	7040.5	7974.2	8548.2	9143.0	9665.2	9592.6	7379.4
55°	3271.3	3530.6	3655.1	4194.6	5491.3	6957.6	7912.0	8669.3	9599.5	10083.6	7898.1
57.5°	2016.0	2164.7	2247.7	2711.1	3904.1	5653.9	7078.6	8233.6	9398.9	10508.9	8437.6
60°	1359.0	1445.5	1487.0	1704.8	2652.3	4225.7	5934.0	7777.1	9136.1	10796.0	8928.6
62.5°	902.5	930.2	971.7	1106.6	1749.8	2967.0	4557.7	6961.0	8939.0	10813.3	9291.7
65°	698.5	712.4	729.6	788.4	1078.9	2074.8	3205.6	5640.0	8645.1	10446.7	9405.8
67.5°	549.8	563.7	584.4	615.5	781.5	1407.4	2182.0	4132.3	8043.4	9872.7	9219.1
70°	432.3	442.6	456.5	484.1	608.6	1020.1	1442.0	2745.7	6829.6	9326.3	8631.2
72.5°	342.3	352.7	366.6	394.2	494.5	746.9	989.0	1711.7	5266.6	8658.9	7500.5
75°	269.7	276.6	287.0	314.7	397.7	580.9	670.9	1023.6	3579.1	7438.2	5844.1
77.5°	134.9	166.0	190.2	217.9	290.5	401.1	446.1	567.1	1511.2	3817.7	2787.2
80°	79.5	96.8	103.7	121.0	190.2	242.1	242.1	228.2	477.2	1466.2	1137.7
82.5°	45.0	62.2	65.7	69.2	114.1	138.3	110.7	83.0	96.8	491.0	332.0
85°	13.8	20.7	24.2	27.7	38.0	41.5	38.0	34.6	27.7	48.4	31.1
87.5°	0.0	0.0	0.0	0.0	3.5	6.9	6.9	6.9	10.4	10.4	10.4
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°	2227.0	2227.0	2227.0	2227.0	2227.0	2227.0	2227.0	2227.0	2227.0	2227.0	2227.0
2.5°	2240.8	2195.8	2109.4	2029.9	1953.8	1898.5	1846.6	1798.2	1763.6	1735.9	1732.5
5°	2271.9	2182.0	2016.0	1860.4	1718.6	1601.1	1500.8	1421.2	1362.5	1321.0	1317.5
7.5°	2313.4	2175.1	1922.7	1691.0	1480.0	1310.6	1165.4	1058.2	982.1	951.0	926.8
10°	2348.0	2168.2	1829.3	1521.5	1244.9	1030.5	857.6	750.4	695.1	674.3	663.9
12.5°	2406.8	2175.1	1749.8	1365.9	1040.9	788.4	657.0	598.2	574.0	556.7	553.3
15°	2493.2	2206.2	1673.7	1213.8	833.4	636.3	560.2	522.2	498.0	494.5	491.0
17.5°	2579.7	2233.9	1604.5	1058.2	691.6	553.3	501.4	470.3	453.0	449.5	449.5
20°	2680.0	2268.5	1528.4	909.5	591.3	498.0	456.5	432.3	411.5	408.0	408.0
22.5°	2797.5	2316.9	1455.8	778.1	525.6	456.5	421.9	394.2	376.9	373.5	373.5
25°	2956.6	2389.5	1397.0	681.2	480.7	421.9	390.8	366.6	352.7	345.8	345.8
27.5°	3133.0	2489.8	1355.5	622.4	449.5	394.2	363.1	342.3	328.5	321.6	321.6
30°	3330.1	2600.4	1327.9	598.2	432.3	370.0	342.3	321.6	304.3	300.8	300.8
32.5°	3547.9	2728.4	1310.6	601.7	428.8	352.7	321.6	300.8	287.0	280.1	280.1
35°	3790.0	2870.2	1300.2	622.4	435.7	338.9	304.3	283.6	269.7	262.8	262.8
37.5°	4059.7	3036.1	1300.2	643.2	453.0	335.4	287.0	266.3	255.9	249.0	249.0
40°	4312.2	3212.5	1314.1	667.4	470.3	335.4	273.2	255.9	242.1	235.1	235.1
42.5°	4509.3	3312.8	1324.4	691.6	480.7	332.0	259.4	242.1	231.7	224.8	224.8
45°	4734.0	3420.0	1303.7	702.0	480.7	325.1	249.0	231.7	221.3	214.4	214.4
47.5°	4983.0	3551.4	1300.2	708.9	470.3	311.2	238.6	221.3	214.4	207.5	207.5
50°	5235.5	3696.6	1307.1	705.4	456.5	290.5	224.8	214.4	204.0	197.1	197.1
52.5°	5522.5	3848.8	1321.0	698.5	425.3	266.3	214.4	204.0	193.6	186.7	183.3
55°	5840.6	4014.8	1348.6	684.7	383.8	242.1	204.0	193.6	179.8	172.9	169.4
57.5°	6207.2	4218.8	1379.8	657.0	338.9	221.3	193.6	179.8	159.1	148.7	145.2
60°	6556.4	4450.5	1414.3	591.3	293.9	200.6	183.3	162.5	141.8	134.9	131.4
62.5°	6884.9	4678.7	1431.6	473.7	249.0	183.3	172.9	148.7	127.9	121.0	117.6
65°	7095.9	4927.7	1393.6	321.6	204.0	169.4	159.1	138.3	117.6	107.2	107.2
67.5°	7109.7	5045.3	1262.2	210.9	166.0	152.2	145.2	124.5	103.7	96.8	93.4
70°	6760.4	4868.9	964.8	166.0	138.3	131.4	131.4	110.7	89.9	83.0	79.5
72.5°	5958.2	4312.2	615.5	134.9	117.6	110.7	110.7	93.4	79.5	69.2	65.7
75°	4702.9	3326.6	328.5	110.7	96.8	93.4	86.5	76.1	65.7	58.8	55.3
77.5°	2161.3	1466.2	152.2	79.5	72.6	72.6	65.7	55.3	51.9	45.0	45.0
80°	854.1	498.0	76.1	51.9	48.4	48.4	48.4	38.0	38.0	31.1	27.7
82.5°	235.1	103.7	38.0	31.1	31.1	31.1	27.7	24.2	24.2	20.7	20.7
85°	24.2	17.3	17.3	17.3	17.3	13.8	13.8	10.4	6.9	6.9	6.9
87.5°	10.4	10.4	10.4	10.4	10.4	6.9	3.5	0.0	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)