

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: P836315

Luminaire Tested: **ARCH3-170-727-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836315
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: ARCH3-170-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1310mA 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: 15684 lumens
Efficiency: N/A
Efficacy: 91.9 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

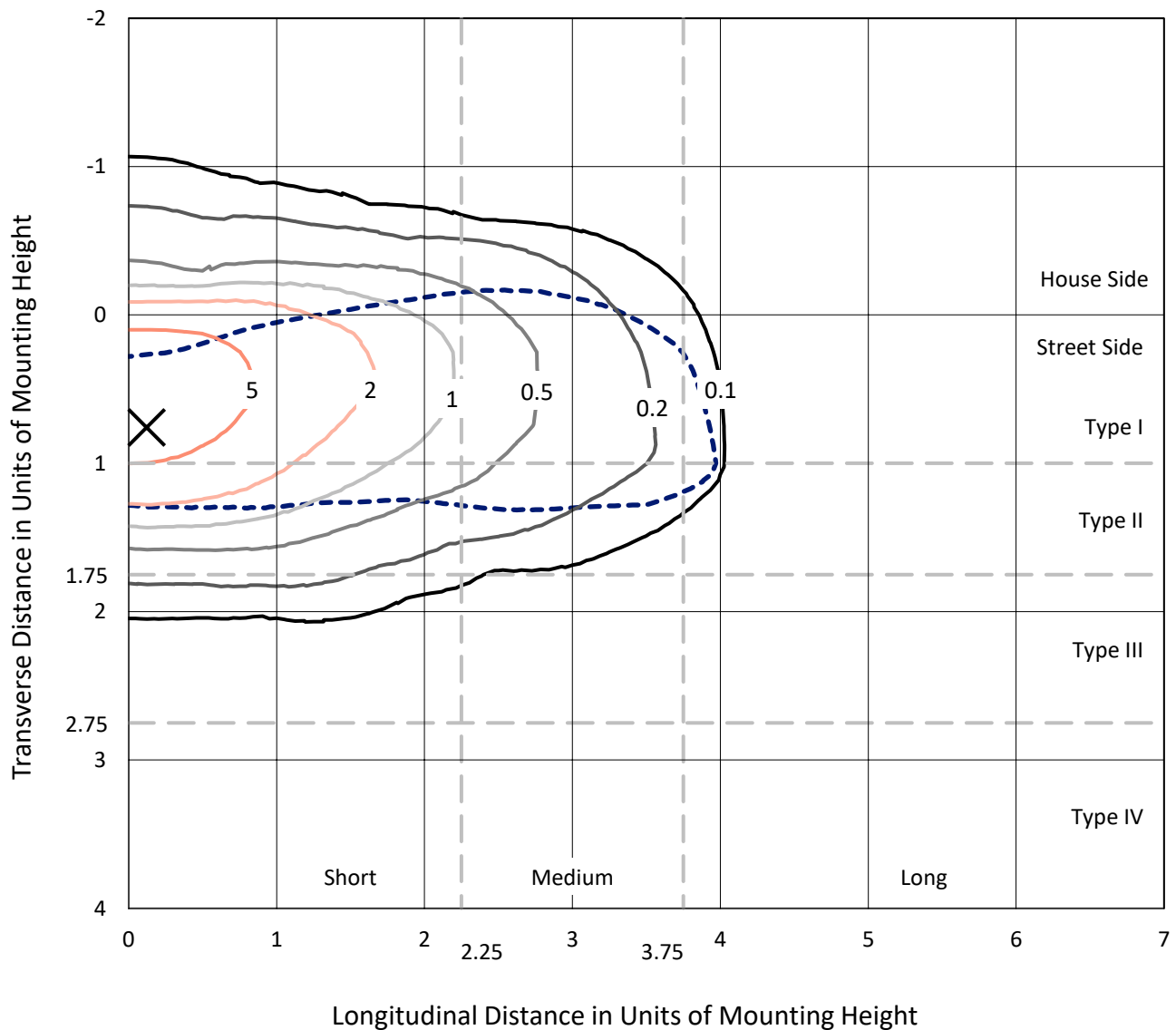
Input Watts (W): 170.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

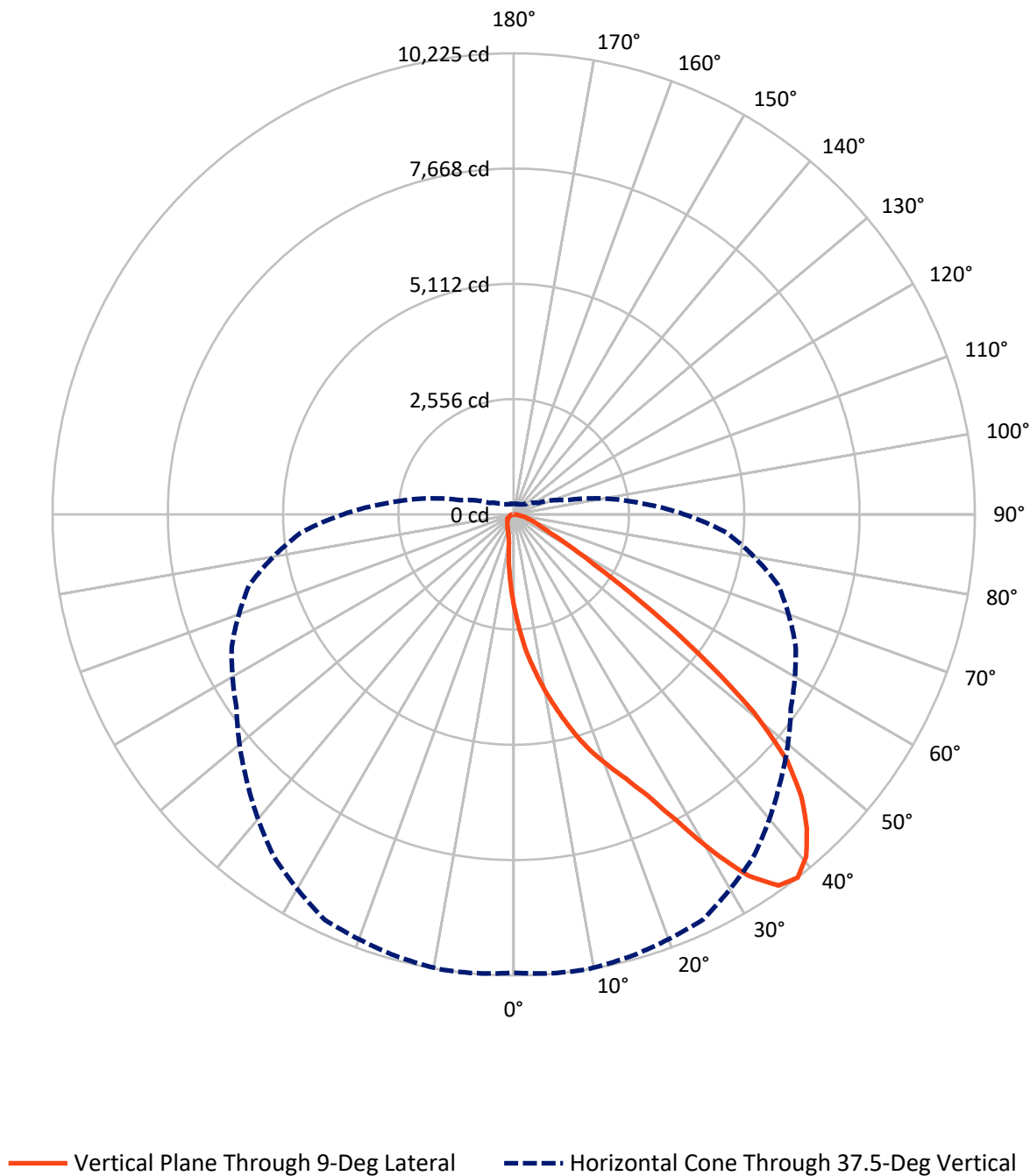
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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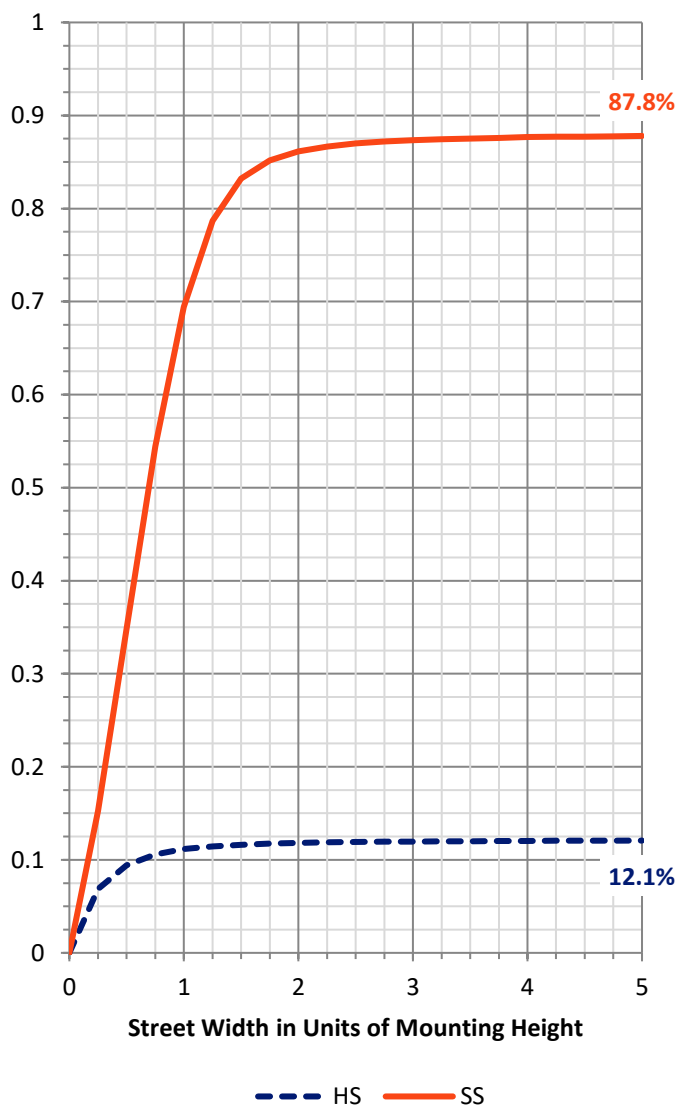
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1907.5	0.0	1907.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	13776.5	0.0	13776.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	15684.0	0.0	15684.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.4	1.3
10°-20°	724.3	4.6
20°-30°	1488.3	9.5
30°-40°	2630.6	16.8
40°-50°	3494.6	22.3
50°-60°	3314.4	21.1
60°-70°	2528.6	16.1
70°-80°	1225.8	7.8
80°-90°	69.0	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°	15684.0	100.0
0°-180°	15684.0	100.0

Coefficient of Utilization



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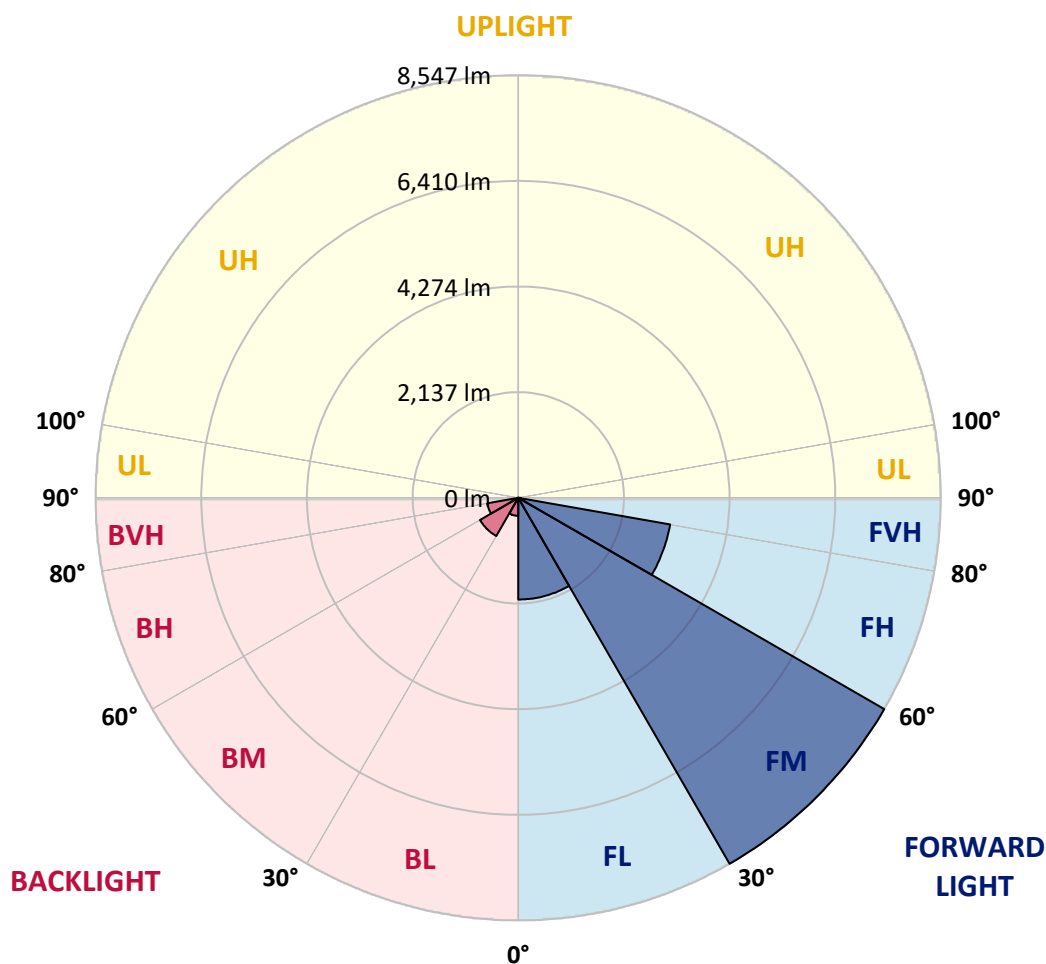
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2057.0	13.1			
FM	(30°-60°)	8547.0	54.5			
FH	(60°-80°)	3117.9	19.9			G2/5000
FVH	(80°-90°)	54.6	0.3			G1/100
BL	(0°-30°)	364.0	2.3	B1/500		
BM	(30°-60°)	892.6	5.7	B1/1000		
BH	(60°-80°)	636.5	4.1	B2/1000		G2/1000
BVH	(80°-90°)	14.4	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°	2073.2	2073.2	2073.2	2073.2	2073.2	2073.2	2073.2	2073.2	2073.2	2073.2	2073.2
2.5°	2569.0	2523.9	2575.4	2569.0	2523.9	2495.0	2404.8	2375.9	2269.6	2192.3	2124.7
5°	3097.0	3051.9	3097.0	3084.1	3019.7	2948.9	2800.8	2704.2	2514.3	2346.9	2195.6
7.5°	3534.8	3534.8	3554.1	3557.3	3480.1	3370.6	3187.1	3042.2	2775.0	2517.5	2276.1
10°	4008.0	4011.3	4053.1	4024.1	3921.1	3773.0	3541.2	3357.7	3035.8	2697.8	2353.3
12.5°	4513.5	4516.7	4529.6	4516.7	4394.4	4204.4	3924.3	3682.9	3312.7	2903.8	2459.6
15°	5018.9	5022.1	5038.2	5015.7	4880.5	4658.3	4339.6	4043.5	3605.6	3135.6	2588.3
17.5°	5492.1	5498.6	5511.5	5482.5	5340.8	5076.9	4751.7	4394.4	3917.9	3383.5	2733.2
20°	5917.1	5923.5	5933.2	5894.6	5752.9	5488.9	5138.0	4764.6	4236.6	3637.8	2890.9
22.5°	6345.3	6351.7	6367.8	6316.3	6158.5	5855.9	5511.5	5125.1	4574.6	3917.9	3074.4
25°	6892.5	6899.0	6911.9	6837.8	6622.1	6268.0	5904.2	5508.2	4941.6	4233.4	3299.8
27.5°	7694.1	7687.7	7687.7	7552.5	7182.3	6721.9	6300.2	5897.8	5337.6	4571.4	3547.7
30°	8685.7	8669.6	8659.9	8476.4	7948.5	7233.8	6705.8	6261.6	5717.5	4928.8	3814.9
32.5°	9574.2	9574.2	9554.9	9361.8	8801.6	7922.7	7137.2	6615.7	6084.5	5289.3	4091.7
35°	10099.0	10121.5	10111.8	9967.0	9558.1	8663.2	7719.9	7040.6	6470.8	5666.0	4423.3
37.5°	10169.8	10214.9	10224.5	10137.6	9921.9	9268.4	8367.0	7501.0	6895.8	6071.6	4745.3
40°	9883.3	9979.9	9979.9	9967.0	9889.7	9554.9	8911.0	8035.4	7333.6	6493.3	5070.4
42.5°	9442.2	9542.0	9529.2	9577.4	9558.1	9487.3	9216.9	8534.4	7771.4	6928.0	5366.6
45°	8866.0	8969.0	8943.2	9030.2	9068.8	9146.1	9184.7	8882.1	8202.8	7401.2	5698.2
47.5°	7942.0	8115.9	8154.5	8309.0	8470.0	8711.5	8895.0	9007.6	8605.2	7909.8	6058.7
50°	6577.0	6821.7	6899.0	7224.1	7665.2	8164.2	8460.3	8853.1	8888.5	8431.4	6448.3
52.5°	4709.8	4993.1	5112.3	5646.7	6554.5	7423.7	7958.1	8511.9	8998.0	8930.4	6870.0
55°	3045.5	3286.9	3402.8	3905.0	5112.3	6477.2	7365.8	8070.8	8936.8	9387.5	7352.9
57.5°	1876.9	2015.3	2092.6	2523.9	3634.6	5263.6	6589.9	7665.2	8750.1	9783.5	7855.1
60°	1265.2	1345.7	1384.3	1587.1	2469.2	3934.0	5524.3	7240.2	8505.4	10050.7	8312.3
62.5°	840.2	866.0	904.6	1030.2	1629.0	2762.2	4243.0	6480.5	8321.9	10066.8	8650.3
65°	650.3	663.2	679.3	734.0	1004.4	1931.6	2984.3	5250.7	8048.3	9725.5	8756.5
67.5°	511.9	524.7	544.1	573.0	727.6	1310.3	2031.4	3847.1	7488.1	9191.1	8582.7
70°	402.4	412.1	424.9	450.7	566.6	949.7	1342.5	2556.1	6358.1	8682.5	8035.4
72.5°	318.7	328.4	341.2	367.0	460.4	695.4	920.7	1593.6	4903.0	8061.1	6982.7
75°	251.1	257.5	267.2	293.0	370.2	540.8	624.5	952.9	3332.0	6924.7	5440.6
77.5°	125.6	154.5	177.1	202.8	270.4	373.4	415.3	528.0	1406.8	3554.1	2594.8
80°	74.0	90.1	96.6	112.7	177.1	225.4	225.4	212.5	444.3	1365.0	1059.2
82.5°	41.9	57.9	61.2	64.4	106.2	128.8	103.0	77.3	90.1	457.1	309.1
85°	12.9	19.3	22.5	25.8	35.4	38.6	35.4	32.2	25.8	45.1	29.0
87.5°	0.0	0.0	0.0	0.0	3.2	6.4	6.4	6.4	9.7	9.7	9.7
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°	2073.2	2073.2	2073.2	2073.2	2073.2	2073.2	2073.2	2073.2	2073.2	2073.2	2073.2
2.5°	2086.1	2044.3	1963.8	1889.7	1818.9	1767.4	1719.1	1674.0	1641.8	1616.1	1612.9
5°	2115.1	2031.4	1876.9	1732.0	1600.0	1490.5	1397.2	1323.1	1268.4	1229.8	1226.6
7.5°	2153.7	2024.9	1789.9	1574.2	1377.9	1220.1	1084.9	985.1	914.3	885.3	862.8
10°	2185.9	2018.5	1703.0	1416.5	1159.0	959.4	798.4	698.6	647.1	627.8	618.1
12.5°	2240.6	2024.9	1629.0	1271.6	969.0	734.0	611.7	556.9	534.4	518.3	515.1
15°	2321.1	2053.9	1558.1	1130.0	775.9	592.4	521.5	486.1	463.6	460.4	457.1
17.5°	2401.6	2079.7	1493.8	985.1	643.9	515.1	466.8	437.8	421.7	418.5	418.5
20°	2495.0	2111.9	1422.9	846.7	550.5	463.6	424.9	402.4	383.1	379.9	379.9
22.5°	2604.4	2156.9	1355.3	724.3	489.3	424.9	392.8	367.0	350.9	347.7	347.7
25°	2752.5	2224.5	1300.6	634.2	447.5	392.8	363.8	341.2	328.4	321.9	321.9
27.5°	2916.7	2317.9	1262.0	579.5	418.5	367.0	338.0	318.7	305.8	299.4	299.4
30°	3100.2	2420.9	1236.2	556.9	402.4	344.5	318.7	299.4	283.3	280.1	280.1
32.5°	3303.0	2540.0	1220.1	560.2	399.2	328.4	299.4	280.1	267.2	260.8	260.8
35°	3528.4	2672.0	1210.5	579.5	405.6	315.5	283.3	264.0	251.1	244.7	244.7
37.5°	3779.5	2826.6	1210.5	598.8	421.7	312.3	267.2	247.9	238.2	231.8	231.8
40°	4014.5	2990.7	1223.3	621.3	437.8	312.3	254.3	238.2	225.4	218.9	218.9
42.5°	4198.0	3084.1	1233.0	643.9	447.5	309.1	241.4	225.4	215.7	209.3	209.3
45°	4407.2	3183.9	1213.7	653.5	447.5	302.6	231.8	215.7	206.0	199.6	199.6
47.5°	4639.0	3306.2	1210.5	660.0	437.8	289.7	222.1	206.0	199.6	193.2	193.2
50°	4874.0	3441.4	1216.9	656.7	424.9	270.4	209.3	199.6	189.9	183.5	183.5
52.5°	5141.2	3583.1	1229.8	650.3	396.0	247.9	199.6	189.9	180.3	173.8	170.6
55°	5437.4	3737.6	1255.5	637.4	357.3	225.4	189.9	180.3	167.4	161.0	157.7
57.5°	5778.7	3927.6	1284.5	611.7	315.5	206.0	180.3	167.4	148.1	138.4	135.2
60°	6103.8	4143.3	1316.7	550.5	273.6	186.7	170.6	151.3	132.0	125.6	122.3
62.5°	6409.6	4355.7	1332.8	441.0	231.8	170.6	161.0	138.4	119.1	112.7	109.5
65°	6606.0	4587.5	1297.4	299.4	189.9	157.7	148.1	128.8	109.5	99.8	99.8
67.5°	6618.9	4697.0	1175.0	196.4	154.5	141.6	135.2	115.9	96.6	90.1	86.9
70°	6293.7	4532.8	898.2	154.5	128.8	122.3	122.3	103.0	83.7	77.3	74.0
72.5°	5546.9	4014.5	573.0	125.6	109.5	103.0	103.0	86.9	74.0	64.4	61.2
75°	4378.3	3097.0	305.8	103.0	90.1	86.9	80.5	70.8	61.2	54.7	51.5
77.5°	2012.1	1365.0	141.6	74.0	67.6	67.6	61.2	51.5	48.3	41.9	41.9
80°	795.2	463.6	70.8	48.3	45.1	45.1	45.1	35.4	35.4	29.0	25.8
82.5°	218.9	96.6	35.4	29.0	29.0	29.0	25.8	22.5	22.5	19.3	19.3
85°	22.5	16.1	16.1	16.1	16.1	12.9	12.9	9.7	6.4	6.4	6.4
87.5°	9.7	9.7	9.7	9.7	9.7	6.4	3.2	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)