

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: P841660

Luminaire Tested: **ARCH4-210-727-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-210-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21865 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

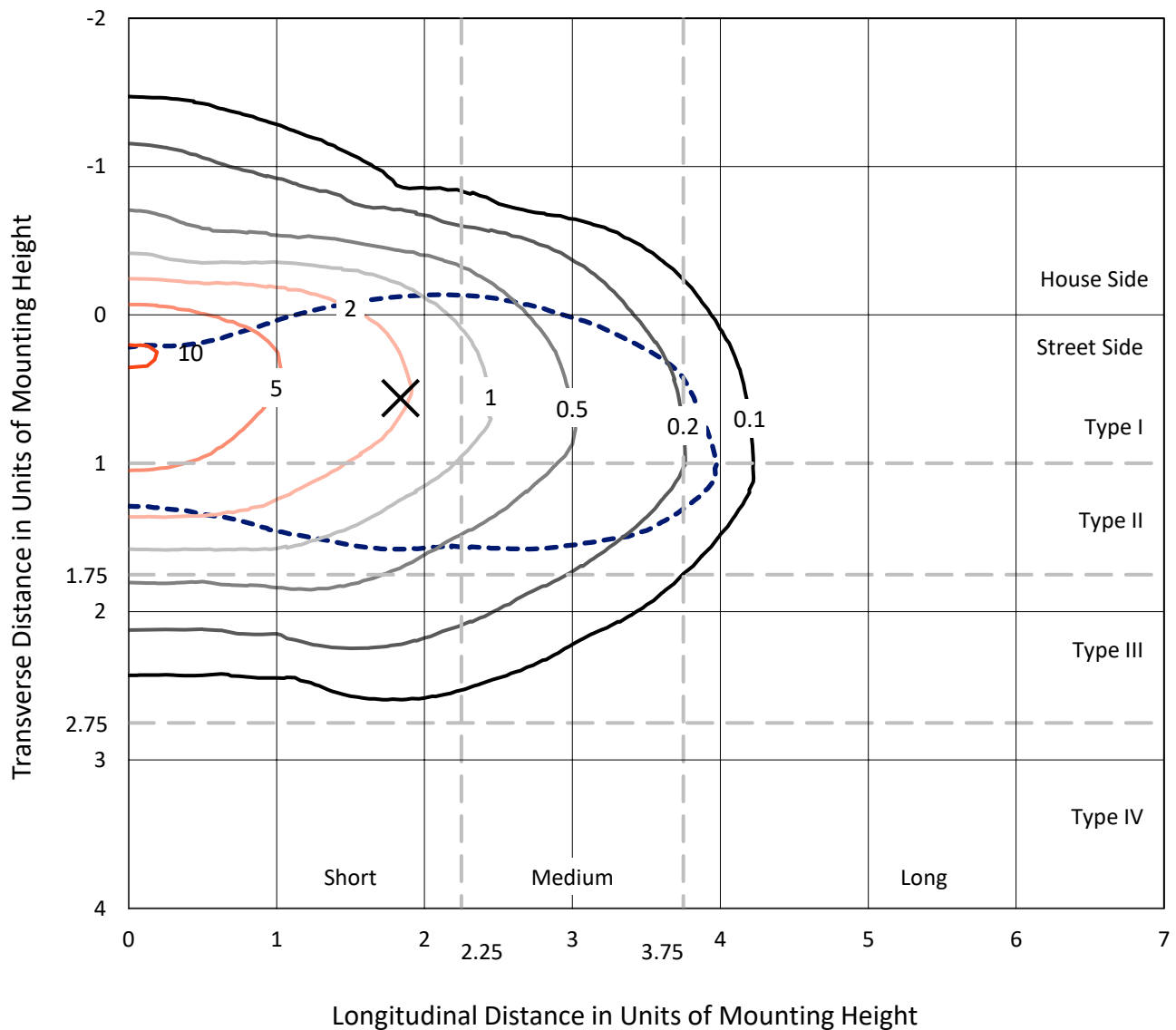
Input Watts (W): 213.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

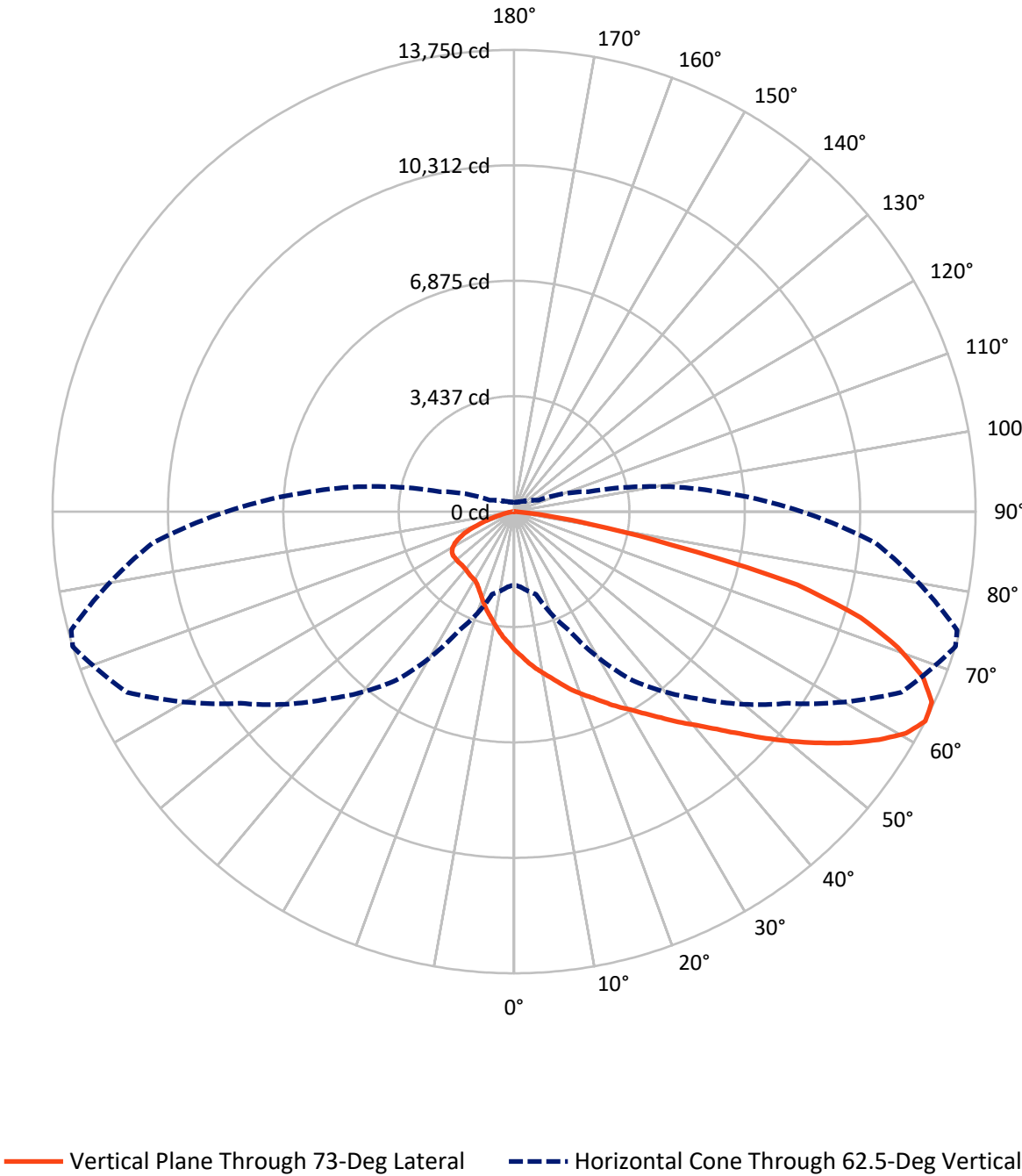
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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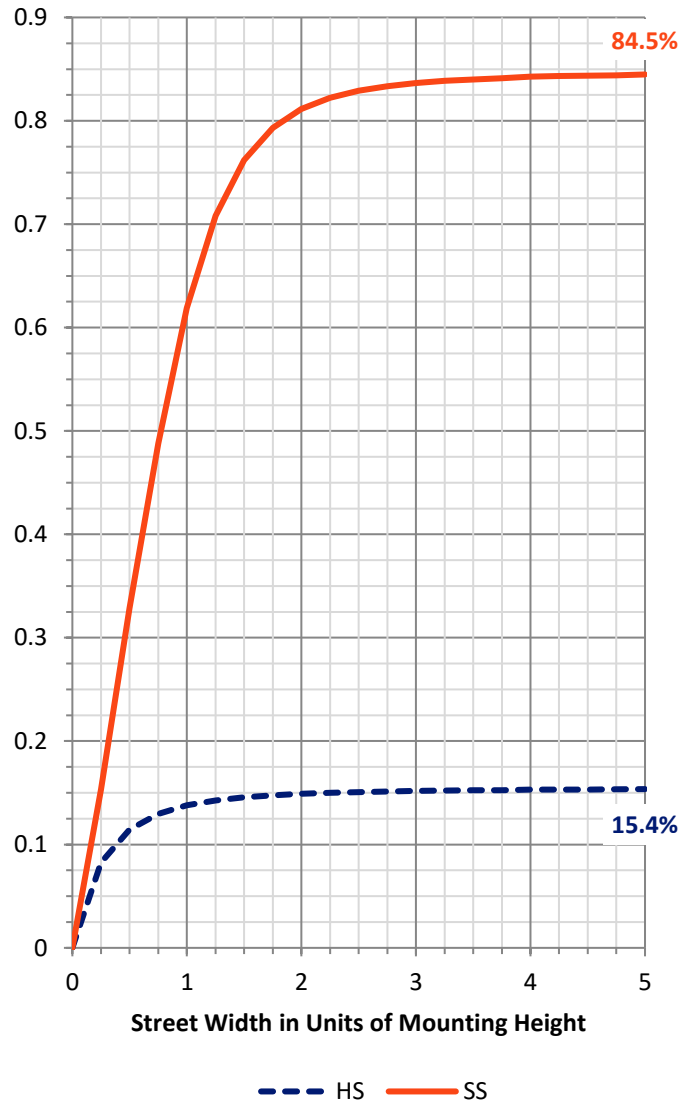
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3389.4	0.0	3389.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	18475.6	0.0	18475.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	21865.0	0.0	21865.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.0	1.8
10°-20°	1206.9	5.5
20°-30°	2008.9	9.2
30°-40°	3031.2	13.9
40°-50°	4236.8	19.4
50°-60°	4679.8	21.4
60°-70°	4076.7	18.6
70°-80°	2059.3	9.4
80°-90°	165.3	0.8
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°	21865.0	100.0
0°-180°	21865.0	100.0

Coefficient of Utilization



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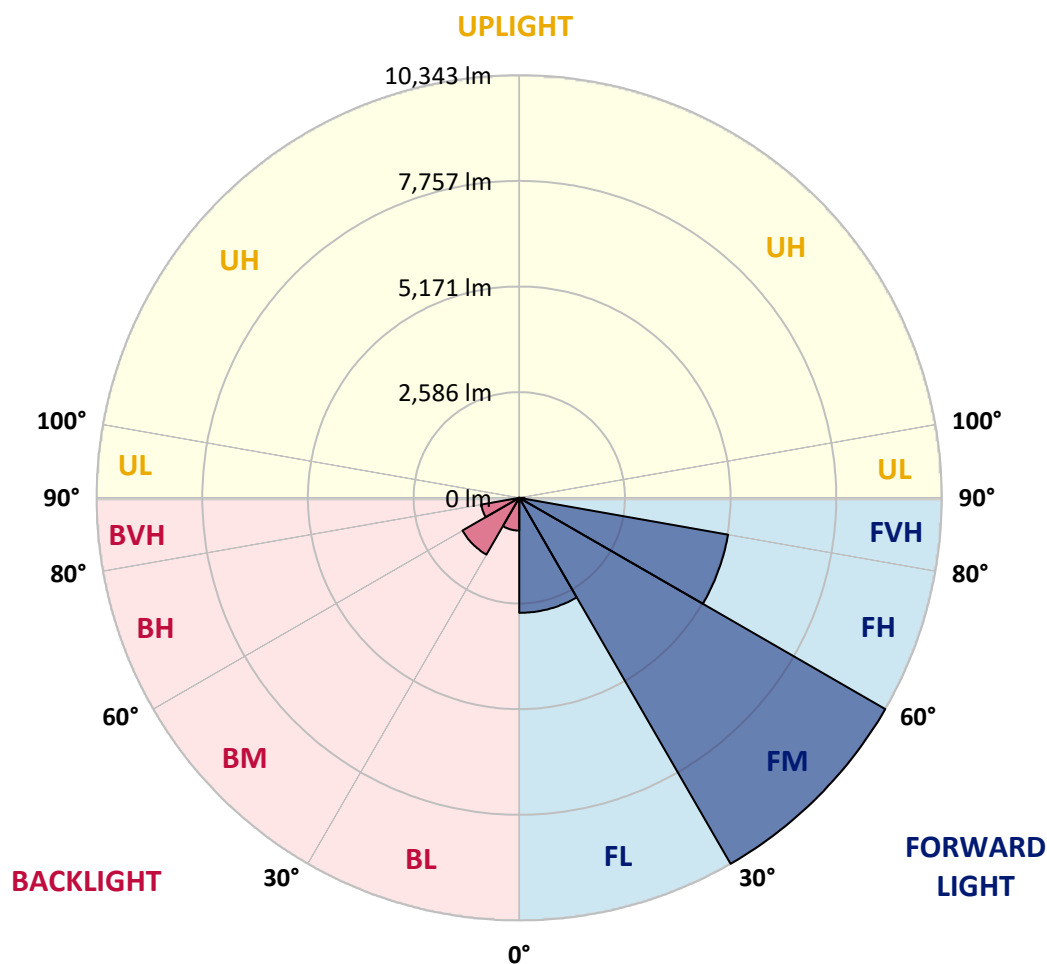
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2814.7	12.9			
FM	(30°-60°)	10343.0	47.3			
FH	(60°-80°)	5190.0	23.7			G3/7500
FVH	(80°-90°)	127.9	0.6			G2/225
BL	(0°-30°)	801.1	3.7	B2/1000		
BM	(30°-60°)	1604.9	7.3	B2/2500		
BH	(60°-80°)	946.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	37.4	0.2			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	4140.2	4140.2	4140.2	4140.2	4140.2	4140.2	4140.2	4140.2	4140.2	4140.2	4140.2
2.5°	4711.9	4764.3	4735.7	4754.8	4659.5	4597.6	4526.1	4387.9	4311.7	4302.2	4211.6
5°	5402.7	5459.9	5412.3	5398.0	5231.2	5088.3	4926.3	4683.3	4521.3	4492.7	4292.6
7.5°	6093.6	6146.0	6088.8	6045.9	5822.0	5569.5	5331.3	4973.9	4721.4	4673.8	4359.3
10°	6579.5	6627.2	6584.3	6541.4	6307.9	6050.7	5712.4	5245.5	4902.5	4826.2	4402.2
12.5°	6946.4	6974.9	6955.9	6917.8	6698.6	6422.3	6098.3	5550.4	5107.3	5012.1	4468.9
15°	7246.5	7294.2	7270.3	7241.7	7032.1	6755.8	6446.1	5869.6	5345.6	5226.4	4569.0
17.5°	7446.6	7480.0	7484.7	7484.7	7298.9	7027.4	6727.2	6160.3	5583.8	5431.3	4664.3
20°	7537.1	7575.3	7599.1	7637.2	7484.7	7251.3	6946.4	6408.0	5807.7	5636.2	4754.8
22.5°	7580.0	7613.4	7675.3	7761.1	7637.2	7441.8	7160.8	6636.7	6031.6	5850.6	4859.6
25°	7613.4	7656.2	7746.8	7908.8	7823.0	7656.2	7413.3	6898.7	6298.4	6112.6	5012.1
27.5°	7703.9	7756.3	7842.1	8037.4	7932.6	7851.6	7680.1	7179.8	6579.5	6388.9	5197.9
30°	8018.3	8061.2	8056.4	8180.3	8051.7	8027.9	7908.8	7451.4	6851.1	6660.5	5417.0
32.5°	8590.0	8632.9	8528.1	8480.5	8199.4	8204.1	8156.5	7742.0	7175.0	6979.7	5669.5
35°	9204.6	9252.3	9114.1	9033.1	8561.5	8423.3	8447.1	8104.1	7537.1	7341.8	5984.0
37.5°	9752.5	9809.7	9690.6	9571.5	9095.1	8775.9	8771.1	8509.1	7951.6	7751.5	6331.8
40°	10052.7	10119.4	10190.9	10124.2	9623.9	9271.3	9118.9	8923.5	8361.4	8156.5	6708.1
42.5°	10195.6	10381.4	10510.1	10467.2	10057.5	9700.1	9519.1	9357.1	8861.6	8661.5	7156.0
45°	9795.4	9800.2	10071.7	10305.2	10229.0	9990.8	9957.4	9843.1	9433.3	9242.8	7661.0
47.5°	9295.2	9257.1	9447.6	9862.1	10076.5	10138.4	10333.8	10381.4	10086.0	9895.5	8175.6
50°	8094.6	8118.4	8737.7	9333.3	9752.5	10152.7	10600.6	10934.1	10757.8	10576.8	8718.7
52.5°	6584.3	6641.4	7351.3	8661.5	9323.8	10009.8	10757.8	11486.7	11443.9	11272.4	9261.8
55°	5278.9	5369.4	6122.1	7541.9	8775.9	9690.6	10824.5	11991.8	12153.8	11996.5	9795.4
57.5°	4035.4	4130.7	4764.3	6222.2	8075.5	9171.3	10776.9	12434.8	12816.0	12715.9	10286.1
60°	3039.6	3134.9	3539.9	5045.4	7198.9	8590.0	10538.7	12725.5	13411.5	13306.7	10643.5
62.5°	2177.3	2253.5	2553.7	3925.8	6131.7	7899.2	9952.6	12730.2	13749.8	13664.0	10815.0
65°	1567.5	1567.5	1810.4	2801.4	5131.2	7070.2	9066.5	12144.2	13678.3	13654.5	10695.9
67.5°	1129.1	1138.7	1334.0	1958.1	4092.5	6065.0	7918.3	11100.8	13125.7	13244.8	10267.1
70°	800.4	824.2	914.7	1367.4	3092.0	4788.1	6689.1	9733.5	12129.9	12339.6	9438.1
72.5°	619.4	633.7	695.6	952.9	2258.3	3558.9	5331.3	8208.9	10800.7	11038.9	8309.0
75°	476.4	490.7	538.4	700.4	1619.9	2496.5	3787.6	6369.9	8709.2	9133.2	6674.8
77.5°	347.8	366.9	400.2	509.8	943.3	1586.5	2296.4	3582.8	4807.2	5007.3	3497.0
80°	162.0	185.8	233.5	328.7	509.8	748.0	814.7	1381.6	2310.7	2415.5	1896.2
82.5°	90.5	114.3	133.4	200.1	257.3	266.8	276.3	347.8	871.9	962.4	795.6
85°	42.9	57.2	61.9	85.8	85.8	76.2	90.5	66.7	142.9	171.5	166.8
87.5°	0.0	4.8	9.5	23.8	19.1	14.3	14.3	14.3	14.3	19.1	14.3
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°	4140.2	4140.2	4140.2	4140.2	4140.2	4140.2	4140.2	4140.2	4140.2	4140.2	4140.2
2.5°	4168.8	4106.8	3963.9	3840.0	3759.0	3687.6	3592.3	3549.4	3473.2	3487.5	3444.6
5°	4192.6	4078.2	3825.7	3592.3	3420.8	3268.3	3101.6	3006.3	2901.5	2891.9	2858.6
7.5°	4206.9	4030.6	3668.5	3339.8	3077.7	2844.3	2620.4	2496.5	2367.9	2339.3	2310.7
10°	4192.6	3959.1	3506.5	3077.7	2729.9	2439.3	2186.8	2029.6	1896.2	1862.8	1834.3
12.5°	4206.9	3921.0	3354.1	2834.8	2420.3	2091.5	1805.7	1643.7	1519.8	1486.5	1467.4
15°	4240.2	3897.2	3225.4	2615.6	2143.9	1777.1	1496.0	1357.8	1257.8	1224.4	1214.9
17.5°	4268.8	3873.4	3087.3	2401.2	1867.6	1500.8	1257.8	1143.4	1057.7	1024.3	1014.8
20°	4306.9	3840.0	2949.1	2196.3	1624.6	1281.6	1067.2	967.2	900.5	876.6	871.9
22.5°	4340.3	3816.2	2820.5	1991.5	1400.7	1105.3	924.3	843.3	795.6	771.8	771.8
25°	4426.0	3825.7	2710.9	1800.9	1234.0	967.2	814.7	752.8	714.6	700.4	700.4
27.5°	4526.1	3863.9	2625.1	1638.9	1091.0	862.3	738.5	686.1	667.0	647.9	652.7
30°	4669.0	3940.1	2568.0	1505.5	986.2	781.3	676.5	638.4	619.4	614.6	614.6
32.5°	4850.1	4064.0	2563.2	1419.8	910.0	719.4	633.7	600.3	590.8	586.0	586.0
35°	5064.5	4173.5	2534.6	1381.6	862.3	676.5	600.3	576.5	571.7	571.7	571.7
37.5°	5321.7	4354.6	2515.6	1329.2	838.5	652.7	576.5	557.4	557.4	557.4	557.4
40°	5588.5	4502.3	2487.0	1281.6	829.0	638.4	562.2	538.4	538.4	538.4	538.4
42.5°	5907.7	4716.7	2477.4	1257.8	814.7	628.9	543.1	514.5	519.3	519.3	524.1
45°	6293.7	4959.6	2472.7	1234.0	809.9	619.4	524.1	490.7	495.5	490.7	490.7
47.5°	6684.3	5240.7	2487.0	1219.7	805.2	609.8	509.8	466.9	466.9	462.1	462.1
50°	7094.1	5498.0	2496.5	1205.4	795.6	590.8	486.0	447.8	438.3	428.8	433.6
52.5°	7480.0	5736.2	2501.3	1181.5	767.1	562.2	466.9	424.0	409.7	395.4	400.2
55°	7865.9	5964.9	2510.8	1153.0	728.9	533.6	443.1	400.2	381.1	362.1	362.1
57.5°	8213.7	6165.0	2487.0	1081.5	686.1	505.0	419.3	371.6	343.0	324.0	324.0
60°	8451.9	6307.9	2415.5	976.7	628.9	471.7	395.4	343.0	309.7	295.4	295.4
62.5°	8566.2	6331.8	2286.9	805.2	557.4	438.3	366.9	314.4	285.9	276.3	276.3
65°	8456.6	6227.0	2086.8	605.1	481.2	400.2	338.3	290.6	262.0	238.2	238.2
67.5°	8075.5	5931.6	1810.4	457.4	409.7	362.1	309.7	266.8	233.5	214.4	214.4
70°	7308.4	5317.0	1400.7	366.9	347.8	314.4	281.1	238.2	209.6	185.8	185.8
72.5°	6303.2	4507.0	986.2	295.4	295.4	266.8	238.2	209.6	181.0	162.0	162.0
75°	4835.8	3335.0	662.2	238.2	243.0	223.9	195.3	171.5	152.5	138.2	138.2
77.5°	2639.4	1648.5	405.0	176.3	181.0	171.5	152.5	138.2	128.6	114.3	114.3
80°	1281.6	724.2	233.5	123.9	128.6	123.9	114.3	100.1	100.1	90.5	90.5
82.5°	538.4	271.6	123.9	85.8	85.8	76.2	71.5	71.5	71.5	66.7	66.7
85°	133.4	52.4	52.4	47.6	47.6	47.6	42.9	42.9	42.9	33.4	38.1
87.5°	19.1	19.1	19.1	19.1	19.1	19.1	14.3	4.8	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)