

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: P841165

Luminaire Tested: **ARCH4-140-730-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841165
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: ARCH4-140-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1155mA 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: 16328 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

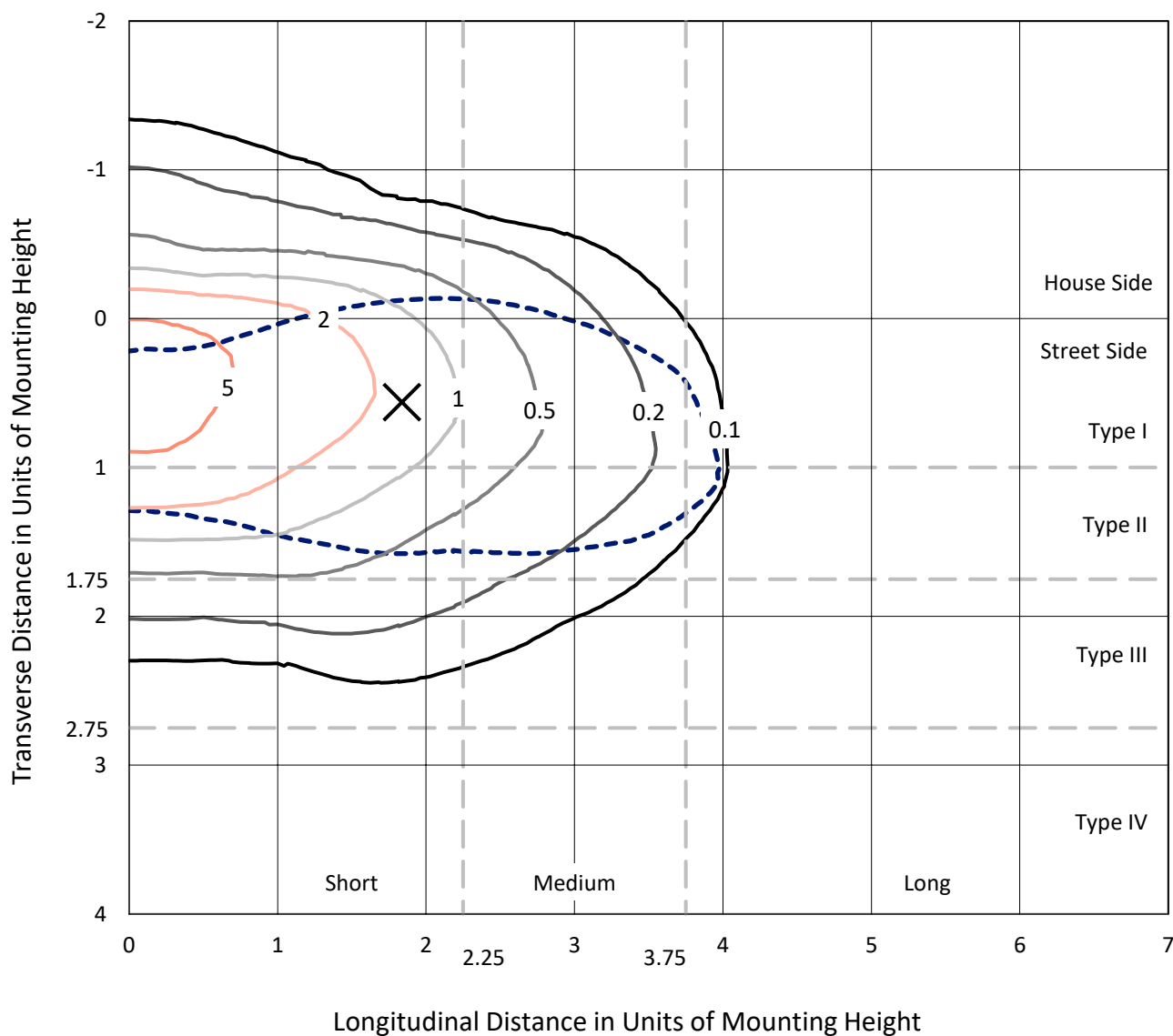
Input Watts (W): 141.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

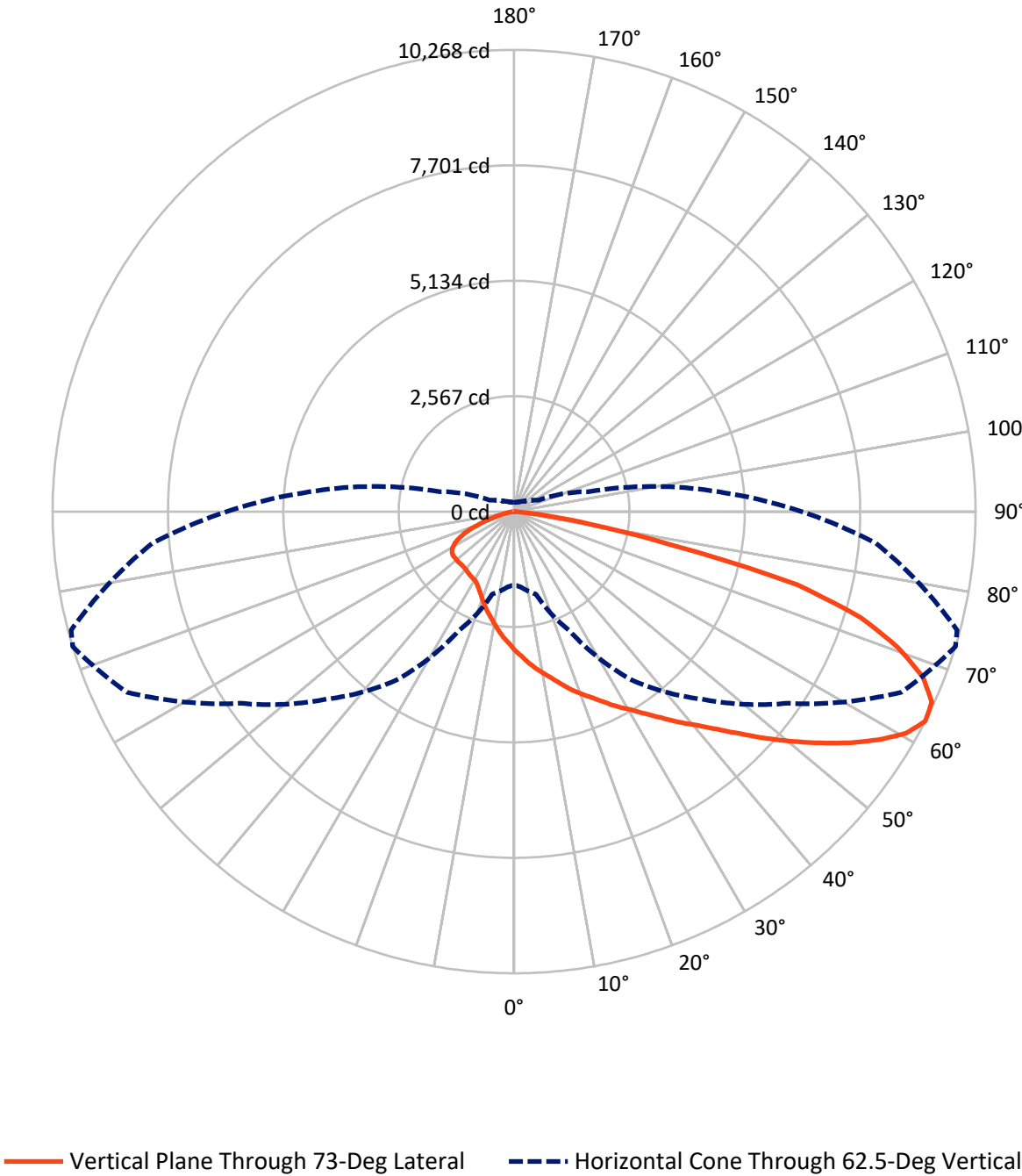
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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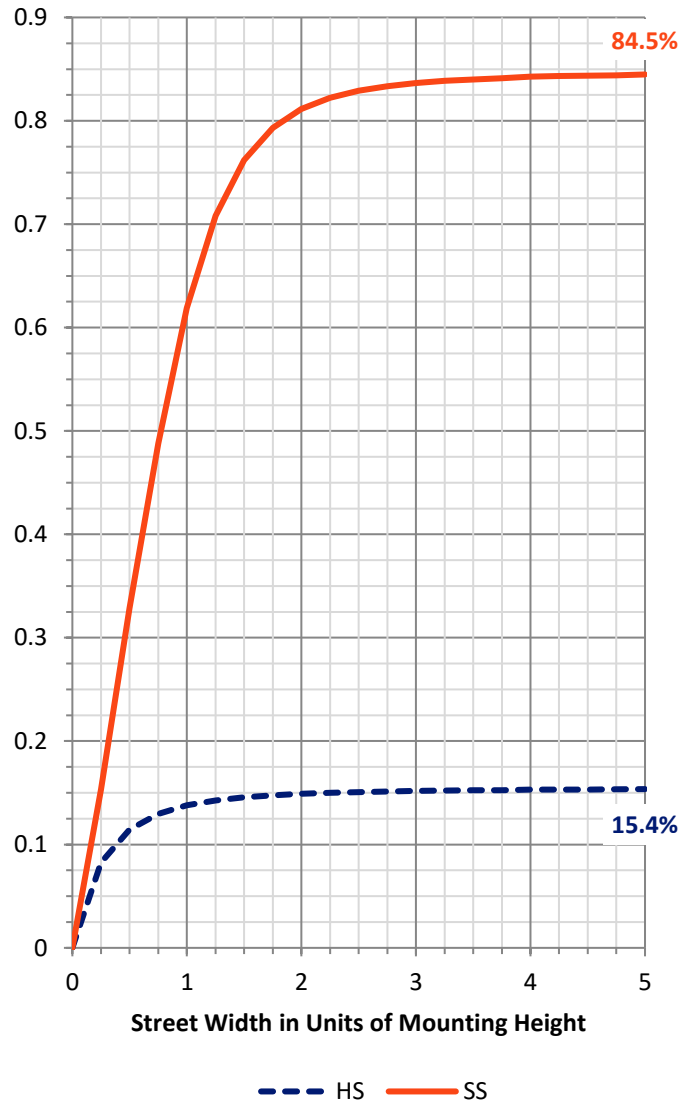
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2531.1	0.0	2531.1
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	13796.9	0.0	13796.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	16328.0	0.0	16328.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.7	1.8
10°-20°	901.3	5.5
20°-30°	1500.2	9.2
30°-40°	2263.6	13.9
40°-50°	3163.9	19.4
50°-60°	3494.7	21.4
60°-70°	3044.4	18.6
70°-80°	1537.8	9.4
80°-90°	123.4	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°	16328.0	100.0
0°-180°	16328.0	100.0

Coefficient of Utilization



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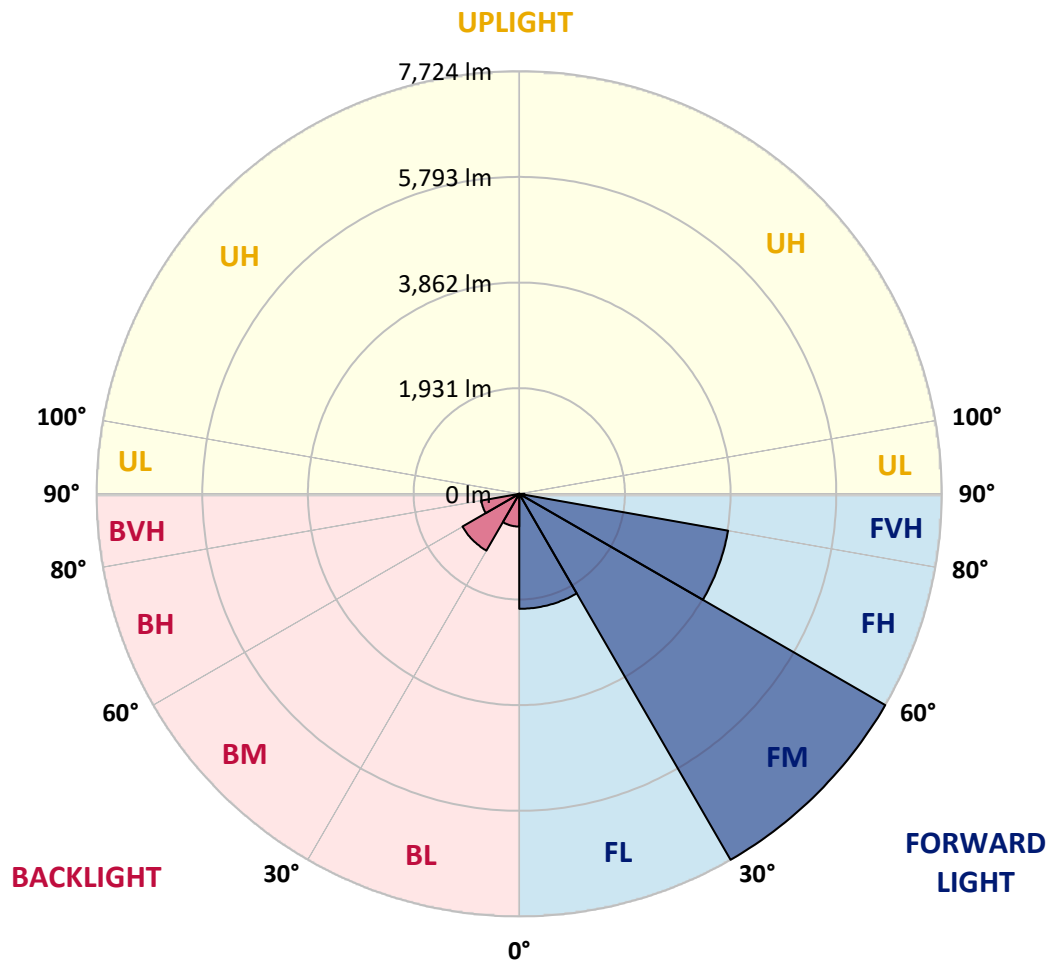
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2101.9	12.9			
FM	(30°-60°)	7723.7	47.3			
FH	(60°-80°)	3875.7	23.7			G2/5000
FVH	(80°-90°)	95.5	0.6			G1/100
BL	(0°-30°)	598.2	3.7	B2/1000		
BM	(30°-60°)	1198.5	7.3	B2/2500		
BH	(60°-80°)	706.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	27.9	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7
2.5°	3518.7	3557.8	3536.5	3550.7	3479.5	3433.3	3379.9	3276.7	3219.8	3212.7	3145.1
5°	4034.6	4077.3	4041.7	4031.0	3906.5	3799.7	3678.8	3497.3	3376.4	3355.0	3205.6
7.5°	4550.4	4589.6	4546.9	4514.9	4347.7	4159.1	3981.2	3714.4	3525.8	3490.2	3255.4
10°	4913.3	4948.9	4916.9	4884.9	4710.5	4518.4	4265.8	3917.2	3661.0	3604.1	3287.4
12.5°	5187.3	5208.6	5194.4	5165.9	5002.3	4795.9	4554.0	4144.9	3814.0	3742.8	3337.2
15°	5411.4	5447.0	5429.2	5407.9	5251.3	5045.0	4813.7	4383.2	3991.9	3902.9	3411.9
17.5°	5560.9	5585.8	5589.3	5589.3	5450.6	5247.8	5023.6	4600.3	4169.8	4055.9	3483.1
20°	5628.5	5656.9	5674.7	5703.2	5589.3	5415.0	5187.3	4785.3	4337.0	4208.9	3550.7
22.5°	5660.5	5685.4	5731.6	5795.7	5703.2	5557.3	5347.4	4956.0	4504.2	4369.0	3629.0
25°	5685.4	5717.4	5785.0	5906.0	5841.9	5717.4	5536.0	5151.7	4703.4	4564.7	3742.8
27.5°	5753.0	5792.1	5856.2	6002.0	5923.8	5863.3	5735.2	5361.6	4913.3	4771.0	3881.6
30°	5987.8	6019.8	6016.3	6108.8	6012.7	5994.9	5906.0	5564.4	5116.1	4973.8	4045.2
32.5°	6414.7	6446.8	6368.5	6332.9	6123.0	6126.6	6091.0	5781.4	5358.1	5212.2	4233.8
35°	6873.7	6909.3	6806.1	6745.6	6393.4	6290.2	6308.0	6051.8	5628.5	5482.6	4468.6
37.5°	7282.8	7325.5	7236.6	7147.7	6791.9	6553.5	6549.9	6354.3	5938.0	5788.6	4728.3
40°	7507.0	7556.8	7610.2	7560.4	7186.8	6923.5	6809.7	6663.8	6244.0	6091.0	5009.4
42.5°	7613.7	7752.5	7848.5	7816.5	7510.5	7243.7	7108.5	6987.5	6617.5	6468.1	5343.8
45°	7314.9	7318.4	7521.2	7695.6	7638.6	7460.7	7435.8	7350.4	7044.5	6902.2	5721.0
47.5°	6941.3	6912.8	7055.1	7364.7	7524.8	7571.0	7716.9	7752.5	7531.9	7389.6	6105.2
50°	6044.7	6062.5	6525.0	6969.8	7282.8	7581.7	7916.1	8165.2	8033.5	7898.3	6510.8
52.5°	4916.9	4959.6	5489.7	6468.1	6962.6	7475.0	8033.5	8577.9	8545.9	8417.8	6916.4
55°	3942.1	4009.7	4571.8	5632.0	6553.5	7236.6	8083.4	8955.0	9076.0	8958.6	7314.9
57.5°	3013.5	3084.6	3557.8	4646.5	6030.5	6848.8	8047.8	9285.9	9570.5	9495.8	7681.3
60°	2269.9	2341.0	2643.5	3767.7	5375.9	6414.7	7869.9	9502.9	10015.2	9937.0	7948.2
62.5°	1625.9	1682.8	1907.0	2931.6	4578.9	5898.9	7432.3	9506.5	10267.9	10203.8	8076.2
65°	1170.5	1170.5	1352.0	2092.0	3831.8	5279.8	6770.5	9068.9	10214.5	10196.7	7987.3
67.5°	843.2	850.3	996.2	1462.3	3056.2	4529.1	5913.1	8289.7	9801.8	9890.7	7667.1
70°	597.7	615.5	683.1	1021.1	2309.0	3575.6	4995.2	7268.6	9058.2	9214.7	7048.0
72.5°	462.5	473.2	519.4	711.6	1686.4	2657.7	3981.2	6130.1	8065.6	8243.5	6204.8
75°	355.8	366.5	402.0	523.0	1209.7	1864.3	2828.5	4756.8	6503.7	6820.3	4984.5
77.5°	259.7	274.0	298.9	380.7	704.4	1184.8	1714.9	2675.5	3589.8	3739.3	2611.4
80°	121.0	138.8	174.3	245.5	380.7	558.6	608.4	1031.8	1725.5	1803.8	1416.0
82.5°	67.6	85.4	99.6	149.4	192.1	199.2	206.4	259.7	651.1	718.7	594.2
85°	32.0	42.7	46.3	64.0	64.0	56.9	67.6	49.8	106.7	128.1	124.5
87.5°	0.0	3.6	7.1	17.8	14.2	10.7	10.7	10.7	10.7	14.2	10.7
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°	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7	3091.7
2.5°	3113.1	3066.8	2960.1	2867.6	2807.1	2753.7	2682.6	2650.6	2593.6	2604.3	2572.3
5°	3130.9	3045.5	2856.9	2682.6	2554.5	2440.7	2316.1	2245.0	2166.7	2159.6	2134.7
7.5°	3141.6	3009.9	2739.5	2494.0	2298.3	2124.0	1956.8	1864.3	1768.2	1746.9	1725.5
10°	3130.9	2956.5	2618.6	2298.3	2038.6	1821.6	1633.0	1515.6	1416.0	1391.1	1369.8
12.5°	3141.6	2928.1	2504.7	2116.9	1807.4	1561.9	1348.4	1227.4	1134.9	1110.0	1095.8
15°	3166.5	2910.3	2408.6	1953.2	1601.0	1327.1	1117.2	1014.0	939.3	914.4	907.2
17.5°	3187.8	2892.5	2305.5	1793.1	1394.7	1120.7	939.3	853.9	789.8	764.9	757.8
20°	3216.3	2867.6	2202.3	1640.2	1213.2	957.1	797.0	722.2	672.4	654.6	651.1
22.5°	3241.2	2849.8	2106.2	1487.2	1046.0	825.4	690.2	629.7	594.2	576.4	576.4
25°	3305.2	2856.9	2024.4	1344.9	921.5	722.2	608.4	562.1	533.7	523.0	523.0
27.5°	3379.9	2885.4	1960.4	1223.9	814.7	644.0	551.5	512.3	498.1	483.9	487.4
30°	3486.7	2942.3	1917.7	1124.3	736.5	583.5	505.2	476.7	462.5	459.0	459.0
32.5°	3621.9	3034.8	1914.1	1060.2	679.5	537.2	473.2	448.3	441.2	437.6	437.6
35°	3782.0	3116.6	1892.8	1031.8	644.0	505.2	448.3	430.5	426.9	426.9	426.9
37.5°	3974.1	3251.8	1878.5	992.6	626.2	487.4	430.5	416.3	416.3	416.3	416.3
40°	4173.3	3362.1	1857.2	957.1	619.1	476.7	419.8	402.0	402.0	402.0	402.0
42.5°	4411.7	3522.2	1850.1	939.3	608.4	469.6	405.6	384.2	387.8	387.8	391.4
45°	4699.9	3703.7	1846.5	921.5	604.8	462.5	391.4	366.5	370.0	366.5	366.5
47.5°	4991.6	3913.6	1857.2	910.8	601.3	455.4	380.7	348.7	348.7	345.1	345.1
50°	5297.6	4105.7	1864.3	900.1	594.2	441.2	362.9	334.4	327.3	320.2	323.8
52.5°	5585.8	4283.6	1867.9	882.3	572.8	419.8	348.7	316.6	306.0	295.3	298.9
55°	5874.0	4454.4	1875.0	861.0	544.3	398.5	330.9	298.9	284.6	270.4	270.4
57.5°	6133.7	4603.8	1857.2	807.6	512.3	377.1	313.1	277.5	256.2	241.9	241.9
60°	6311.6	4710.5	1803.8	729.4	469.6	352.2	295.3	256.2	231.3	220.6	220.6
62.5°	6397.0	4728.3	1707.8	601.3	416.3	327.3	274.0	234.8	213.5	206.4	206.4
65°	6315.1	4650.1	1558.3	451.8	359.3	298.9	252.6	217.0	195.7	177.9	177.9
67.5°	6030.5	4429.5	1352.0	341.6	306.0	270.4	231.3	199.2	174.3	160.1	160.1
70°	5457.7	3970.5	1046.0	274.0	259.7	234.8	209.9	177.9	156.5	138.8	138.8
72.5°	4707.0	3365.7	736.5	220.6	220.6	199.2	177.9	156.5	135.2	121.0	121.0
75°	3611.2	2490.5	494.5	177.9	181.4	167.2	145.9	128.1	113.9	103.2	103.2
77.5°	1971.0	1231.0	302.4	131.6	135.2	128.1	113.9	103.2	96.1	85.4	85.4
80°	957.1	540.8	174.3	92.5	96.1	92.5	85.4	74.7	74.7	67.6	67.6
82.5°	402.0	202.8	92.5	64.0	64.0	56.9	53.4	53.4	53.4	49.8	49.8
85°	99.6	39.1	39.1	35.6	35.6	35.6	32.0	32.0	32.0	24.9	28.5
87.5°	14.2	14.2	14.2	14.2	14.2	14.2	10.7	3.6	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)