

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: P842160

Luminaire Tested: **ARCH4-280-722-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-280-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1085mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34140 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 279.7
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

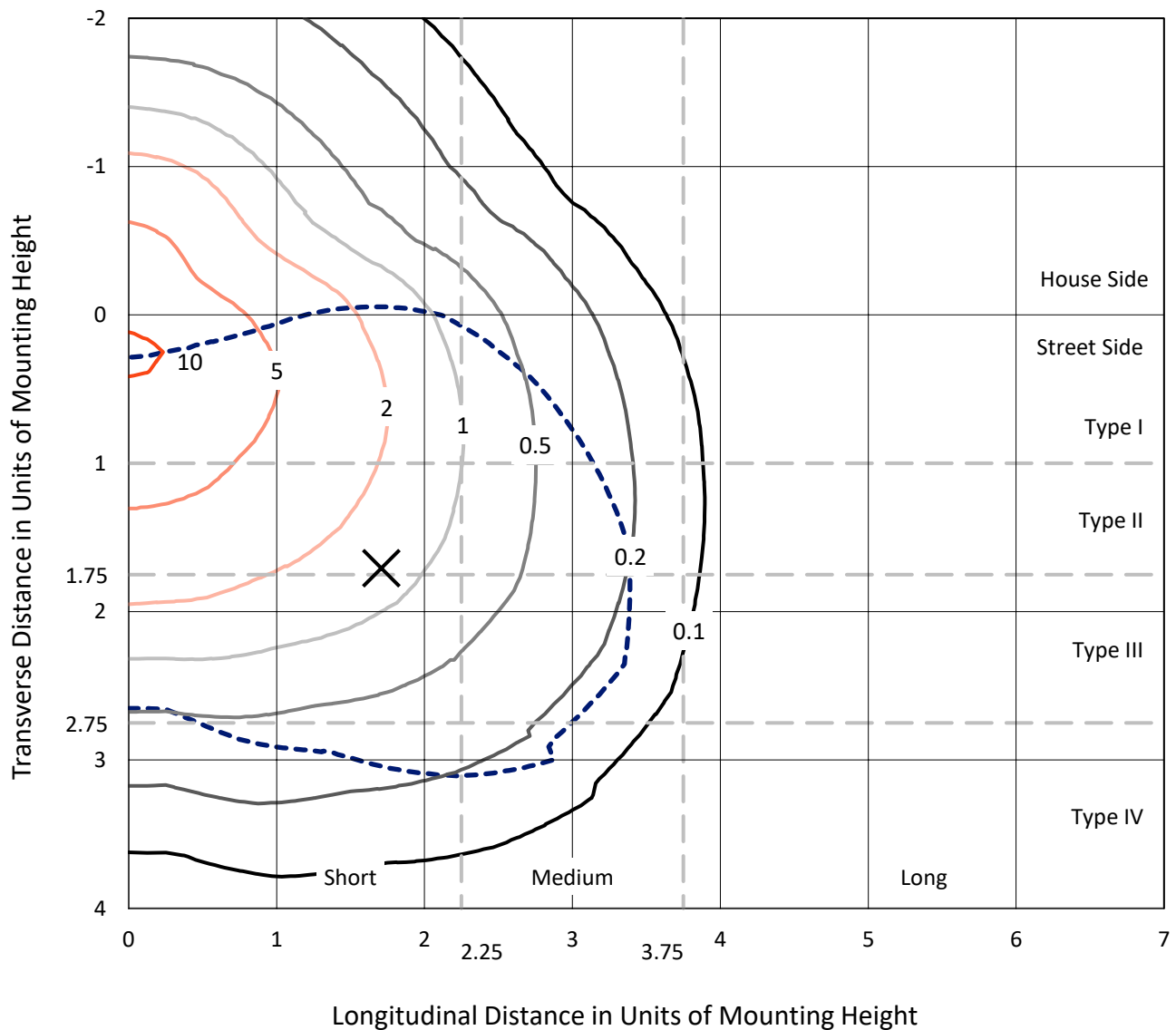


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

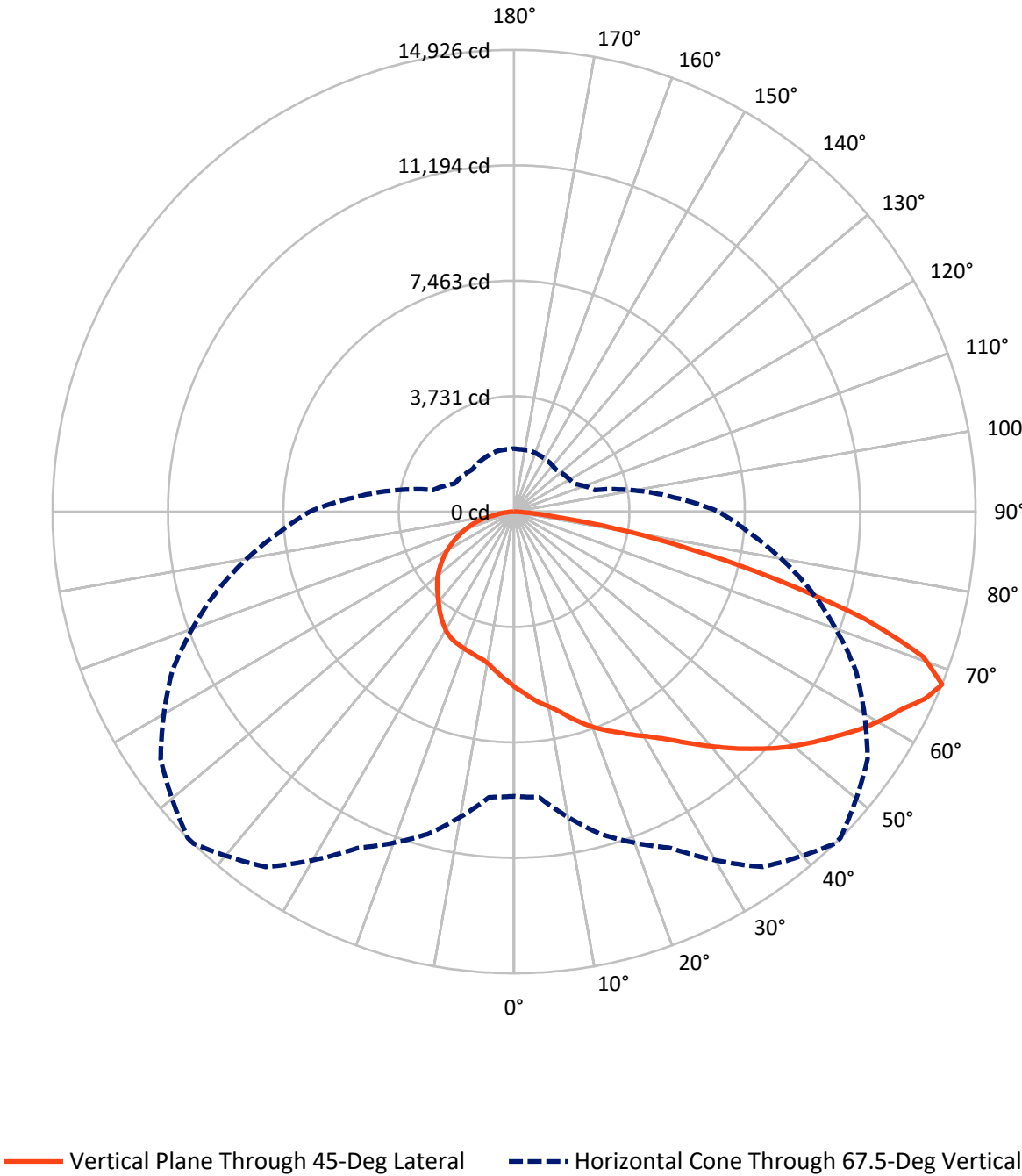


Based on 25 foot mounting height. Maximum calculated value = 10.6 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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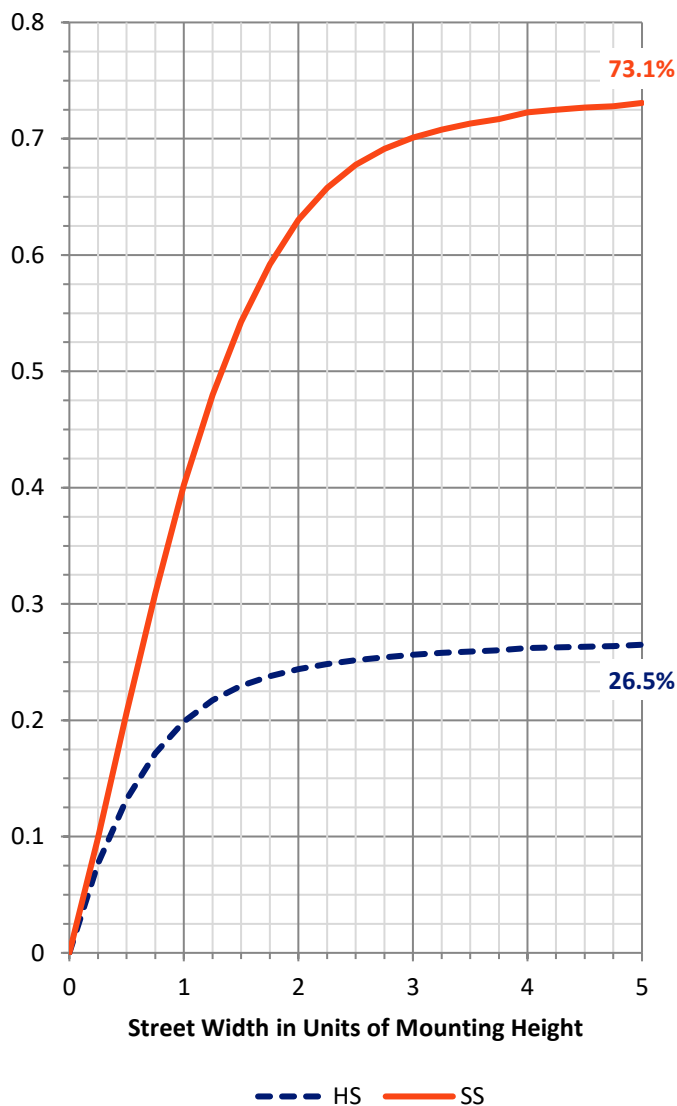
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9120.5	0.0	9120.5
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	25019.5	0.0	25019.5
	% Fixture	73.3	0.0	73.3
Total	Lumens	34140.0	0.0	34140.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.2	1.6
10°-20°	1684.1	4.9
20°-30°	2906.9	8.5
30°-40°	4286.7	12.6
40°-50°	5807.6	17.0
50°-60°	7098.3	20.8
60°-70°	7320.9	21.4
70°-80°	4009.9	11.7
80°-90°	480.6	1.4
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°	34140.0	100.0
0°-180°	34140.0	100.0

Coefficient of Utilization



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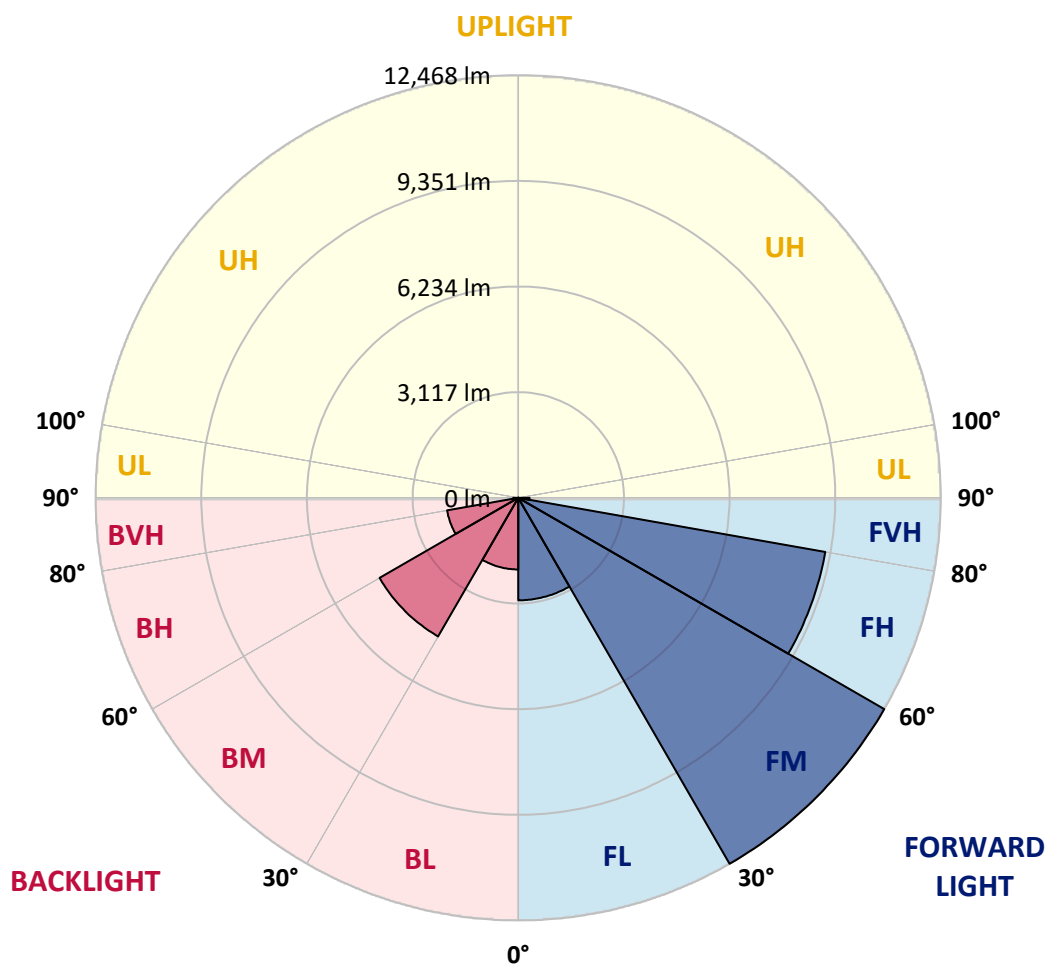
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3022.3	8.9			
FM	(30°-60°)	12468.3	36.5			
FH	(60°-80°)	9197.8	26.9			G4/12000
FVH	(80°-90°)	331.1	1.0			G3/500
BL	(0°-30°)	2113.8	6.2	B3/2500		
BM	(30°-60°)	4724.3	13.8	B3/5000		
BH	(60°-80°)	2132.9	6.2	B3/2500		G3/2500
BVH	(80°-90°)	149.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9
2.5°	5943.3	5938.1	5948.5	5912.1	5865.3	5860.1	5860.1	5829.0	5792.6	5719.9	5662.7
5°	6223.8	6213.4	6218.6	6166.7	6104.3	6073.2	6068.0	6000.4	5917.3	5803.0	5699.1
7.5°	6483.6	6473.2	6468.0	6410.8	6317.3	6265.4	6260.2	6161.5	6062.8	5886.1	5735.5
10°	6727.7	6717.4	6707.0	6629.0	6514.7	6436.8	6426.4	6301.7	6177.1	5958.9	5766.6
12.5°	7039.5	7018.7	7008.3	6914.8	6748.5	6665.4	6649.8	6483.6	6327.7	6062.8	5829.0
15°	7366.7	7351.2	7335.6	7247.3	7060.2	6951.1	6925.2	6717.4	6504.4	6197.8	5922.5
17.5°	7610.9	7595.3	7595.3	7517.4	7346.0	7221.3	7200.5	6951.1	6686.2	6322.5	5995.2
20°	7761.6	7746.0	7761.6	7714.8	7584.9	7481.0	7460.3	7184.9	6868.0	6436.8	6057.6
22.5°	7870.7	7855.1	7881.1	7860.3	7766.8	7704.4	7688.8	7418.7	7055.0	6556.3	6119.9
25°	8062.9	8062.9	8062.9	8026.5	7938.2	7917.4	7917.4	7683.7	7294.0	6712.2	6213.4
27.5°	8447.3	8426.6	8400.6	8296.7	8146.0	8140.8	8172.0	7953.8	7569.4	6914.8	6327.7
30°	9013.6	9003.2	8904.5	8686.3	8431.8	8405.8	8426.6	8244.7	7865.5	7127.8	6457.6
32.5°	9746.1	9709.8	9507.2	9179.9	8816.2	8696.7	8738.3	8546.1	8177.2	7346.0	6582.3
35°	10265.7	10276.0	10130.6	9834.5	9403.3	9086.3	9117.5	8883.7	8514.9	7590.1	6738.1
37.5°	10863.1	10899.5	10681.3	10457.9	10057.8	9517.5	9548.7	9231.8	8852.6	7896.7	6904.4
40°	11689.1	11616.4	11247.5	10982.6	10541.0	9969.5	9995.5	9621.5	9242.2	8187.6	7096.6
42.5°	12380.1	12250.2	11803.4	11465.7	10935.8	10447.5	10473.5	10042.3	9637.0	8509.7	7309.6
45°	13372.4	13013.9	12369.7	12203.5	11341.1	10915.0	10941.0	10489.0	10052.7	8852.6	7538.2
47.5°	13949.0	13377.6	12967.1	12878.8	11787.8	11398.2	11429.4	10961.8	10499.4	9242.2	7777.2
50°	13912.7	13543.8	13424.3	13206.1	12182.7	11850.2	11881.3	11450.2	10951.4	9626.6	8005.8
52.5°	13673.7	13741.2	13678.9	13315.2	12577.5	12286.6	12322.9	11933.3	11413.8	9985.1	8218.8
55°	14042.5	14089.3	13969.8	13491.9	13013.9	12723.0	12764.5	12442.4	11871.0	10302.0	8400.6
57.5°	14484.1	14317.9	14198.4	13803.6	13465.9	13195.7	13242.5	12961.9	12265.8	10556.6	8540.9
60°	14463.3	14115.3	14234.8	13824.3	13772.4	13632.1	13673.7	13387.9	12567.1	10743.6	8598.0
62.5°	13398.3	13211.3	13814.0	13673.7	14021.8	14021.8	14073.7	13647.7	12748.9	10821.5	8566.8
65°	11548.9	11559.2	12619.1	13200.9	14317.9	14556.9	14598.4	13808.8	12645.0	10592.9	8275.9
67.5°	9200.6	9268.2	10790.4	12000.8	14021.8	14920.5	14925.7	13954.2	12198.3	9948.7	7600.5
70°	6732.9	6784.9	8582.4	10052.7	12624.3	14115.3	14032.1	13543.8	11226.8	8826.6	6545.9
72.5°	4551.0	4597.7	6447.2	7720.0	10359.2	12021.6	11839.8	11969.7	9569.5	7252.5	5262.7
75°	3060.0	3117.1	4587.3	5522.5	7621.3	9127.9	8722.7	9065.6	7403.1	5491.3	3839.2
77.5°	1927.4	1963.8	2914.5	3621.0	5205.6	6213.4	5808.2	5813.4	4265.2	2956.1	2062.5
80°	1226.1	1236.5	1766.4	2088.5	3013.2	3735.3	3304.1	2685.9	1922.2	1568.9	1231.3
82.5°	711.7	696.2	1054.6	1179.3	1433.9	1418.3	1174.1	1111.8	841.6	784.5	628.6
85°	285.7	265.0	462.4	431.2	436.4	462.4	342.9	342.9	275.3	213.0	155.9
87.5°	57.1	57.1	62.3	57.1	57.1	62.3	46.8	46.8	41.6	41.6	41.6
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°	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9	5693.9
2.5°	5652.3	5642.0	5616.0	5548.4	5512.1	5491.3	5460.1	5449.7	5444.5	5449.7	5465.3
5°	5667.9	5631.6	5558.8	5449.7	5377.0	5330.2	5278.3	5257.5	5241.9	5241.9	5257.5
7.5°	5678.3	5621.2	5496.5	5335.4	5231.5	5158.8	5096.5	5070.5	5065.3	5080.9	5086.1
10°	5683.5	5600.4	5423.8	5221.1	5086.1	4992.6	4930.2	4914.6	4930.2	4961.4	4966.6
12.5°	5719.9	5605.6	5382.2	5143.2	4982.2	4888.7	4841.9	4841.9	4883.5	4940.6	4945.8
15°	5782.2	5642.0	5361.4	5080.9	4914.6	4831.5	4815.9	4841.9	4904.2	4992.6	5002.9
17.5°	5829.0	5662.7	5314.7	4997.8	4826.3	4774.4	4800.3	4862.7	4951.0	5070.5	5080.9
20°	5860.1	5662.7	5247.1	4899.0	4738.0	4727.6	4800.3	4899.0	4992.6	5132.8	5148.4
22.5°	5891.3	5652.3	5169.2	4779.6	4639.3	4670.5	4805.5	4930.2	5023.7	5174.4	5200.4
25°	5948.5	5667.9	5091.3	4660.1	4535.4	4623.7	4800.3	4951.0	5049.7	5205.6	5247.1
27.5°	6026.4	5704.3	5034.1	4551.0	4431.5	4551.0	4764.0	4945.8	5049.7	5200.4	5247.1
30°	6109.5	5745.9	4966.6	4431.5	4312.0	4447.1	4686.0	4888.7	5008.1	5148.4	5205.6
32.5°	6197.8	5792.6	4909.4	4301.6	4166.5	4306.8	4571.7	4800.3	4930.2	5060.1	5122.4
35°	6317.3	5875.7	4878.3	4197.7	4036.6	4161.3	4426.3	4686.0	4826.3	4945.8	5018.5
37.5°	6462.8	5979.6	4862.7	4093.8	3896.4	4000.3	4270.4	4545.8	4696.4	4795.1	4862.7
40°	6629.0	6109.5	4857.5	3995.1	3756.1	3834.0	4109.4	4384.7	4530.2	4608.1	4665.3
42.5°	6816.1	6255.0	4847.1	3896.4	3615.8	3678.2	3953.5	4223.7	4348.4	4415.9	4467.8
45°	7013.5	6400.4	4826.3	3776.9	3465.2	3537.9	3792.5	4031.5	4161.3	4218.5	4275.6
47.5°	7210.9	6545.9	4784.8	3641.8	3330.1	3397.6	3621.0	3828.8	3932.7	3984.7	4041.8
50°	7403.1	6675.8	4686.0	3486.0	3189.8	3252.2	3423.6	3563.9	3641.8	3683.4	3740.5
52.5°	7574.6	6764.1	4545.8	3304.1	3049.6	3080.7	3195.0	3314.5	3376.9	3382.1	3434.0
55°	7720.0	6810.9	4343.2	3117.1	2898.9	2904.1	2966.4	3060.0	3085.9	3065.1	3101.5
57.5°	7803.1	6784.9	4119.8	2924.9	2743.0	2722.3	2769.0	2815.8	2821.0	2769.0	2805.4
60°	7823.9	6665.4	3828.8	2732.7	2587.2	2530.0	2545.6	2535.2	2524.9	2504.1	2535.2
62.5°	7720.0	6410.8	3506.7	2545.6	2420.9	2332.6	2327.4	2322.2	2337.8	2343.0	2348.2
65°	7340.8	5932.9	3122.3	2353.4	2244.3	2124.8	2119.6	2182.0	2202.8	2171.6	2182.0
67.5°	6608.3	5200.4	2701.5	2130.0	2020.9	1917.0	1958.6	1994.9	2031.3	2020.9	2031.3
70°	5569.2	4270.4	2317.0	1880.7	1776.7	1719.6	1766.4	1797.5	1802.7	1792.3	1802.7
72.5°	4379.5	3335.3	1958.6	1626.1	1532.6	1506.6	1563.7	1589.7	1636.5	1657.3	1662.5
75°	3163.9	2462.5	1605.3	1350.7	1272.8	1272.8	1324.8	1371.5	1413.1	1387.1	1371.5
77.5°	1766.4	1470.2	1153.3	929.9	945.5	1018.3	1039.0	1091.0	1132.5	1127.4	1117.0
80°	1070.2	919.5	779.3	602.6	597.4	654.6	789.7	878.0	898.8	852.0	846.8
82.5°	555.9	483.2	415.6	337.7	374.1	436.4	457.2	550.7	607.8	587.1	613.0
85°	140.3	135.1	150.7	155.9	192.2	213.0	233.8	275.3	181.8	88.3	88.3
87.5°	41.6	41.6	52.0	52.0	67.5	83.1	77.9	77.9	41.6	5.2	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)