

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: P841656

Luminaire Tested: **ARCH4-210-722-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841656
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: ARCH4-210-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27697 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - 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

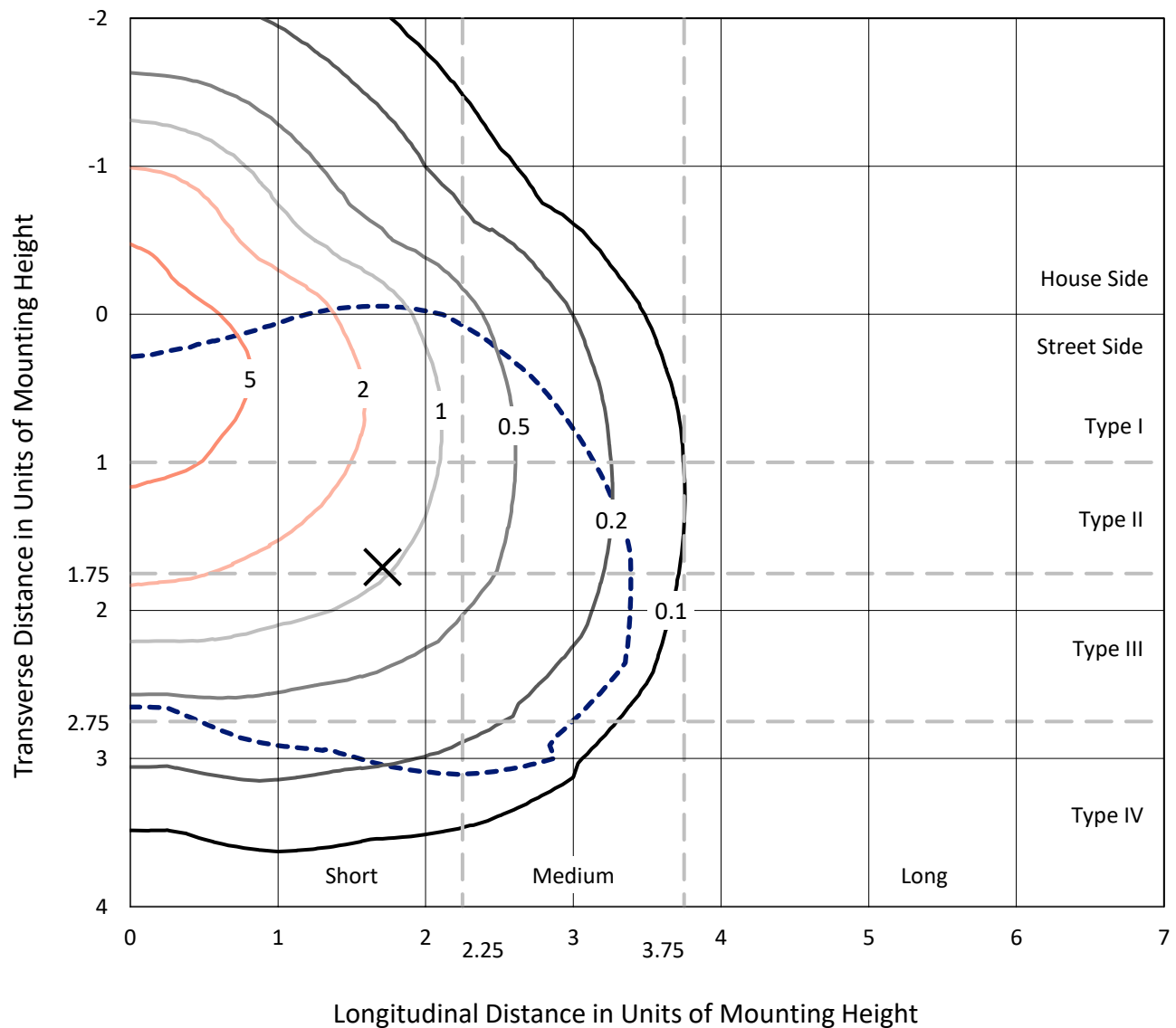


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Iso-Footcandle Lines of Horizontal Illumination

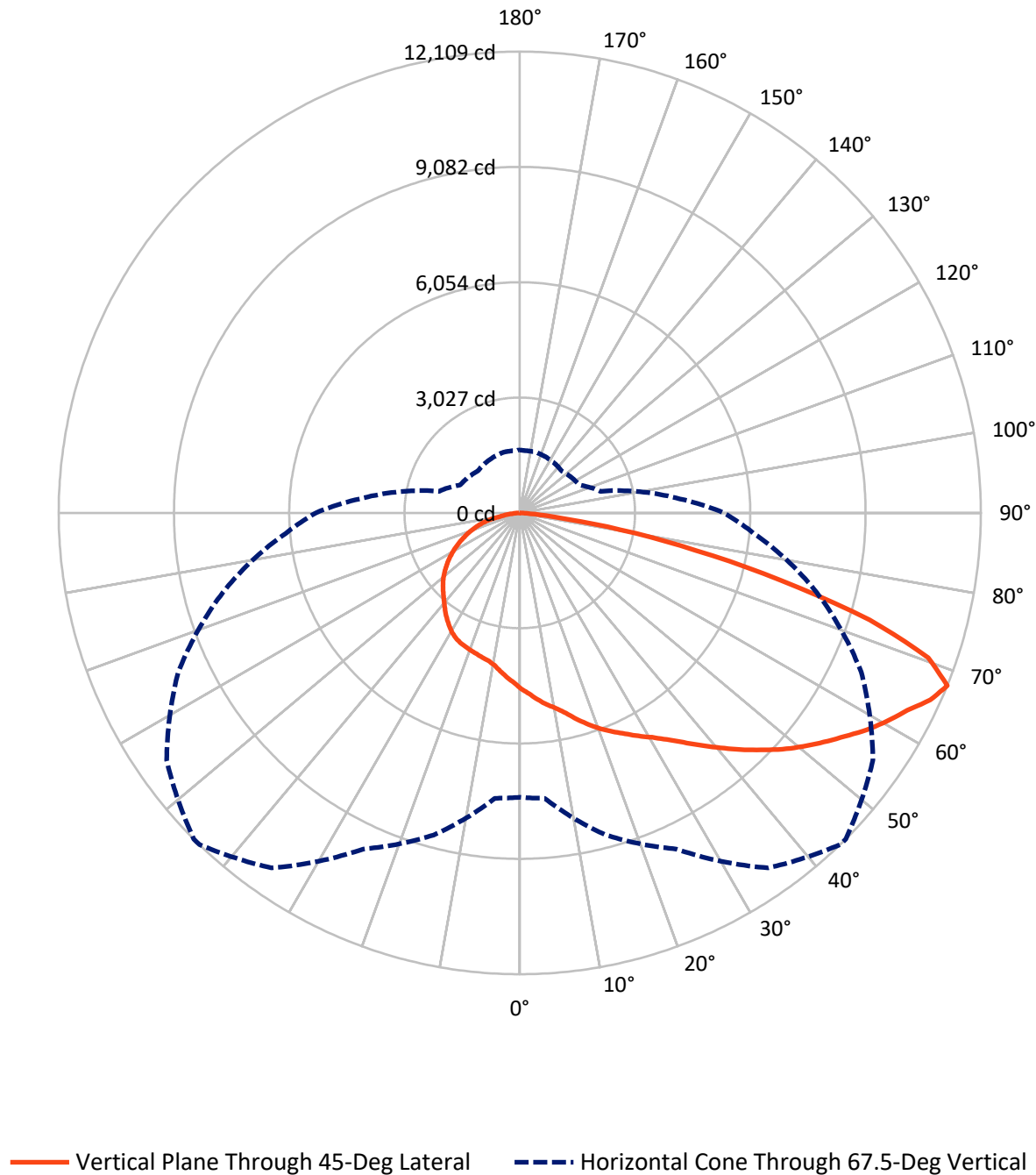
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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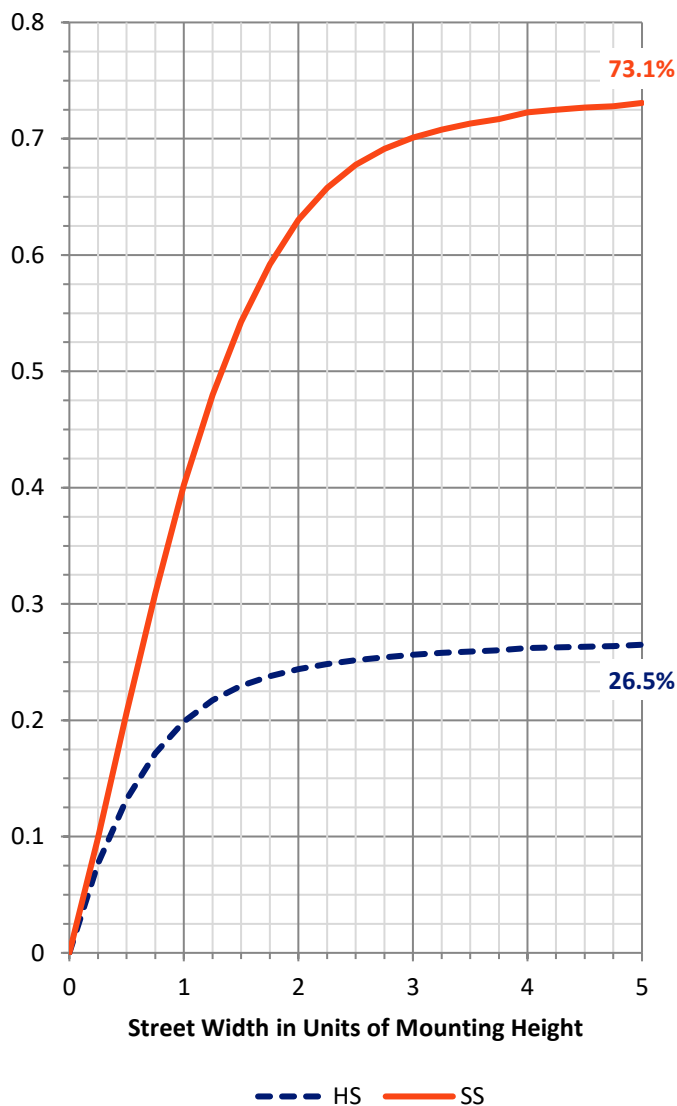
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7399.3	0.0	7399.3
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	20297.7	0.0	20297.7
	% Fixture	73.3	0.0	73.3
Total	Lumens	27697.0	0.0	27697.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.3	1.6
10°-20°	1366.2	4.9
20°-30°	2358.3	8.5
30°-40°	3477.7	12.6
40°-50°	4711.6	17.0
50°-60°	5758.7	20.8
60°-70°	5939.2	21.4
70°-80°	3253.1	11.7
80°-90°	389.9	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°	27697.0	100.0
0°-180°	27697.0	100.0

Coefficient of Utilization



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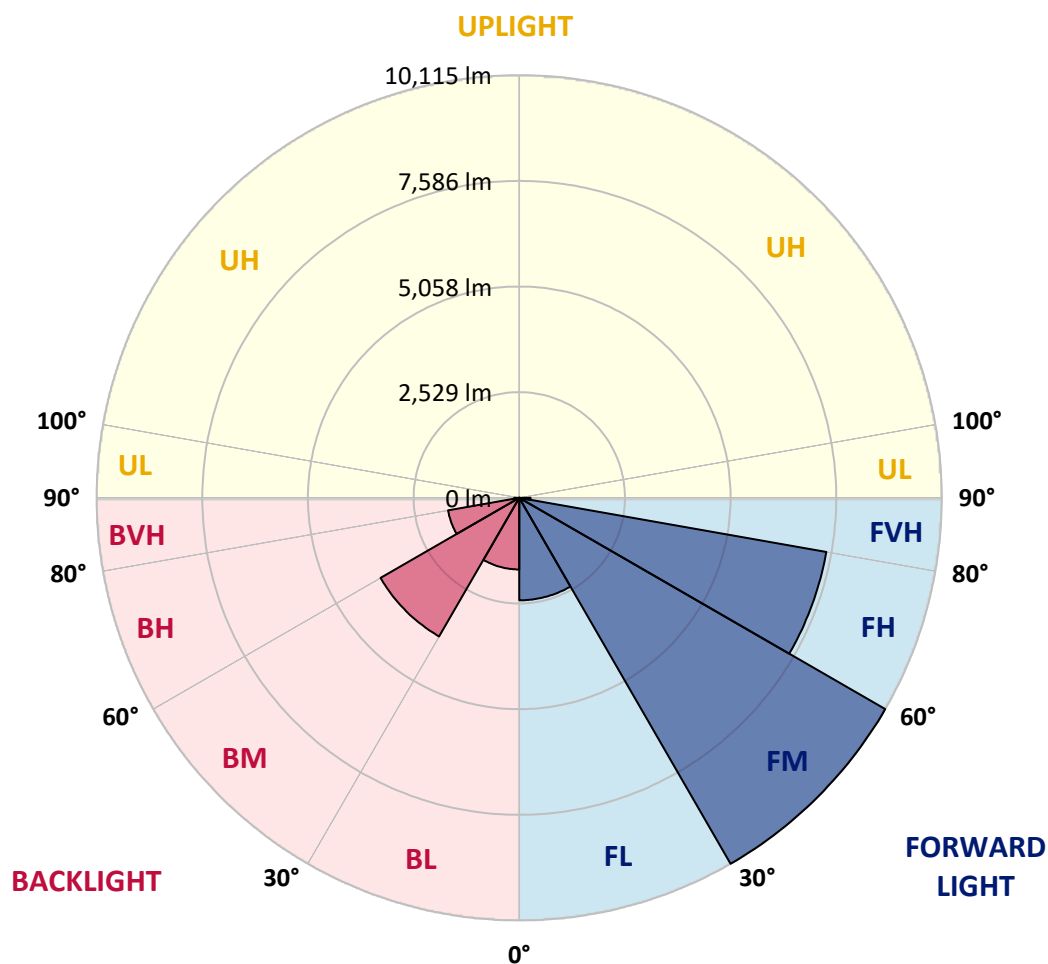
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2451.9	8.9			
FM	(30°-60°)	10115.2	36.5			
FH	(60°-80°)	7462.0	26.9			G3/7500
FVH	(80°-90°)	268.6	1.0			G3/500
BL	(0°-30°)	1714.9	6.2	B3/2500		
BM	(30°-60°)	3832.7	13.8	B3/5000		
BH	(60°-80°)	1730.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	121.3	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4619.3	4619.3	4619.3	4619.3	4619.3	4619.3	4619.3	4619.3	4619.3	4619.3	4619.3
2.5°	4821.6	4817.4	4825.9	4796.4	4758.4	4754.2	4754.2	4728.9	4699.4	4640.4	4594.0
5°	5049.2	5040.8	5045.0	5002.9	4952.3	4927.0	4922.8	4868.0	4800.6	4707.8	4623.5
7.5°	5260.0	5251.5	5247.3	5201.0	5125.1	5083.0	5078.7	4998.7	4918.6	4775.3	4653.1
10°	5458.1	5449.6	5441.2	5378.0	5285.3	5222.0	5213.6	5112.5	5011.3	4834.3	4678.3
12.5°	5710.9	5694.1	5685.7	5609.8	5474.9	5407.5	5394.8	5260.0	5133.5	4918.6	4728.9
15°	5976.5	5963.8	5951.2	5879.5	5727.8	5639.3	5618.2	5449.6	5276.8	5028.2	4804.8
17.5°	6174.6	6161.9	6161.9	6098.7	5959.6	5858.5	5841.6	5639.3	5424.3	5129.3	4863.8
20°	6296.8	6284.1	6296.8	6258.9	6153.5	6069.2	6052.3	5829.0	5571.9	5222.0	4914.4
22.5°	6385.3	6372.7	6393.7	6376.9	6301.0	6250.4	6237.8	6018.6	5723.6	5319.0	4964.9
25°	6541.2	6541.2	6541.2	6511.7	6440.1	6423.2	6423.2	6233.6	5917.5	5445.4	5040.8
27.5°	6853.1	6836.3	6815.2	6730.9	6608.7	6604.5	6629.8	6452.7	6140.8	5609.8	5133.5
30°	7312.5	7304.1	7224.0	7047.0	6840.5	6819.4	6836.3	6688.8	6381.1	5782.6	5238.9
32.5°	7906.8	7877.3	7712.9	7447.4	7152.4	7055.4	7089.2	6933.2	6634.0	5959.6	5340.1
35°	8328.3	8336.7	8218.7	7978.5	7628.6	7371.5	7396.8	7207.2	6907.9	6157.7	5466.5
37.5°	8813.0	8842.5	8665.5	8484.2	8159.7	7721.4	7746.7	7489.6	7181.9	6406.4	5601.4
40°	9483.1	9424.1	9124.9	8909.9	8551.7	8088.0	8109.1	7805.7	7498.0	6642.4	5757.3
42.5°	10043.7	9938.3	9575.8	9301.9	8872.0	8475.8	8496.9	8147.1	7818.3	6903.7	5930.1
45°	10848.7	10557.9	10035.3	9900.4	9200.7	8855.1	8876.2	8509.5	8155.5	7181.9	6115.6
47.5°	11316.5	10852.9	10519.9	10448.3	9563.2	9247.1	9272.4	8893.1	8518.0	7498.0	6309.4
50°	11287.0	10987.8	10890.8	10713.8	9883.5	9613.8	9639.1	9289.2	8884.6	7809.9	6494.9
52.5°	11093.1	11147.9	11097.4	10802.3	10203.8	9967.8	9997.3	9681.2	9259.7	8100.7	6667.7
55°	11392.4	11430.3	11333.4	10945.6	10557.9	10321.9	10355.6	10094.3	9630.6	8357.8	6815.2
57.5°	11750.6	11615.8	11518.8	11198.5	10924.6	10705.4	10743.3	10515.7	9951.0	8564.3	6929.0
60°	11733.8	11451.4	11548.3	11215.4	11173.2	11059.4	11093.1	10861.3	10195.4	8716.0	6975.4
62.5°	10869.8	10718.0	11206.9	11093.1	11375.5	11375.5	11417.7	11072.1	10342.9	8779.3	6950.1
65°	9369.3	9377.8	10237.6	10709.6	11615.8	11809.6	11843.4	11202.7	10258.6	8593.8	6714.1
67.5°	7464.3	7519.1	8754.0	9736.0	11375.5	12104.7	12108.9	11320.7	9896.2	8071.2	6166.1
70°	5462.3	5504.4	6962.7	8155.5	10241.8	11451.4	11384.0	10987.8	9108.0	7160.8	5310.5
72.5°	3692.1	3730.0	5230.5	6263.1	8404.2	9752.9	9605.3	9710.7	7763.5	5883.8	4269.5
75°	2482.5	2528.8	3721.6	4480.2	6183.0	7405.3	7076.5	7354.7	6006.0	4455.0	3114.7
77.5°	1563.7	1593.2	2364.5	2937.7	4223.2	5040.8	4712.1	4716.3	3460.3	2398.2	1673.2
80°	994.7	1003.1	1433.0	1694.3	2444.5	3030.4	2680.6	2179.0	1559.4	1272.8	998.9
82.5°	577.4	564.8	855.6	956.7	1163.3	1150.6	952.5	902.0	682.8	636.4	510.0
85°	231.8	215.0	375.1	349.8	354.0	375.1	278.2	278.2	223.4	172.8	126.4
87.5°	46.4	46.4	50.6	46.4	46.4	50.6	37.9	37.9	33.7	33.7	33.7
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°	4619.3	4619.3	4619.3	4619.3	4619.3	4619.3	4619.3	4619.3	4619.3	4619.3	4619.3
2.5°	4585.6	4577.2	4556.1	4501.3	4471.8	4455.0	4429.7	4421.2	4417.0	4421.2	4433.9
5°	4598.3	4568.8	4509.8	4421.2	4362.2	4324.3	4282.2	4265.3	4252.7	4252.7	4265.3
7.5°	4606.7	4560.3	4459.2	4328.5	4244.2	4185.2	4134.6	4113.6	4109.4	4122.0	4126.2
10°	4610.9	4543.5	4400.2	4235.8	4126.2	4050.3	3999.8	3987.1	3999.8	4025.1	4029.3
12.5°	4640.4	4547.7	4366.5	4172.6	4041.9	3966.1	3928.1	3928.1	3961.8	4008.2	4012.4
15°	4691.0	4577.2	4349.6	4122.0	3987.1	3919.7	3907.0	3928.1	3978.7	4050.3	4058.8
17.5°	4728.9	4594.0	4311.7	4054.6	3915.5	3873.3	3894.4	3945.0	4016.6	4113.6	4122.0
20°	4754.2	4594.0	4256.9	3974.5	3843.8	3835.4	3894.4	3974.5	4050.3	4164.1	4176.8
22.5°	4779.5	4585.6	4193.6	3877.5	3763.7	3789.0	3898.6	3999.8	4075.6	4197.9	4218.9
25°	4825.9	4598.3	4130.4	3780.6	3679.5	3751.1	3894.4	4016.6	4096.7	4223.2	4256.9
27.5°	4889.1	4627.8	4084.1	3692.1	3595.2	3692.1	3864.9	4012.4	4096.7	4218.9	4256.9
30°	4956.5	4661.5	4029.3	3595.2	3498.2	3607.8	3801.7	3966.1	4063.0	4176.8	4223.2
32.5°	5028.2	4699.4	3982.9	3489.8	3380.2	3494.0	3709.0	3894.4	3999.8	4105.1	4155.7
35°	5125.1	4766.8	3957.6	3405.5	3274.8	3376.0	3590.9	3801.7	3915.5	4012.4	4071.4
37.5°	5243.1	4851.1	3945.0	3321.2	3161.0	3245.3	3464.5	3687.9	3810.1	3890.2	3945.0
40°	5378.0	4956.5	3940.8	3241.1	3047.2	3110.5	3333.8	3557.2	3675.2	3738.5	3784.8
42.5°	5529.7	5074.5	3932.3	3161.0	2933.4	2984.0	3207.4	3426.6	3527.7	3582.5	3624.7
45°	5689.9	5192.5	3915.5	3064.1	2811.2	2870.2	3076.7	3270.6	3376.0	3422.4	3468.7
47.5°	5850.0	5310.5	3881.8	2954.5	2701.6	2756.4	2937.7	3106.2	3190.5	3232.7	3279.1
50°	6006.0	5415.9	3801.7	2828.1	2587.8	2638.4	2777.5	2891.3	2954.5	2988.2	3034.6
52.5°	6145.1	5487.6	3687.9	2680.6	2474.0	2499.3	2592.1	2689.0	2739.6	2743.8	2785.9
55°	6263.1	5525.5	3523.5	2528.8	2351.8	2356.0	2406.6	2482.5	2503.5	2486.7	2516.2
57.5°	6330.5	5504.4	3342.3	2372.9	2225.4	2208.5	2246.4	2284.4	2288.6	2246.4	2275.9
60°	6347.4	5407.5	3106.2	2216.9	2098.9	2052.6	2065.2	2056.8	2048.4	2031.5	2056.8
62.5°	6263.1	5201.0	2844.9	2065.2	1964.1	1892.4	1888.2	1884.0	1896.6	1900.8	1905.1
65°	5955.4	4813.2	2533.0	1909.3	1820.8	1723.8	1719.6	1770.2	1787.0	1761.8	1770.2
67.5°	5361.1	4218.9	2191.7	1728.0	1639.5	1555.2	1588.9	1618.5	1648.0	1639.5	1648.0
70°	4518.2	3464.5	1879.8	1525.7	1441.4	1395.1	1433.0	1458.3	1462.5	1454.1	1462.5
72.5°	3553.0	2705.9	1588.9	1319.2	1243.3	1222.3	1268.6	1289.7	1327.6	1344.5	1348.7
75°	2566.8	1997.8	1302.3	1095.8	1032.6	1032.6	1074.8	1112.7	1146.4	1125.3	1112.7
77.5°	1433.0	1192.8	935.7	754.4	767.1	826.1	842.9	885.1	918.8	914.6	906.2
80°	868.2	746.0	632.2	488.9	484.7	531.1	640.6	712.3	729.1	691.2	687.0
82.5°	451.0	392.0	337.2	274.0	303.5	354.0	370.9	446.8	493.1	476.3	497.3
85°	113.8	109.6	122.2	126.4	155.9	172.8	189.7	223.4	147.5	71.7	71.7
87.5°	33.7	33.7	42.1	42.1	54.8	67.4	63.2	63.2	33.7	4.2	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)