

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: P842250

Luminaire Tested: **ARCH4-290-730-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842250
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: ARCH4-290-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1120mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39992 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 289.7
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

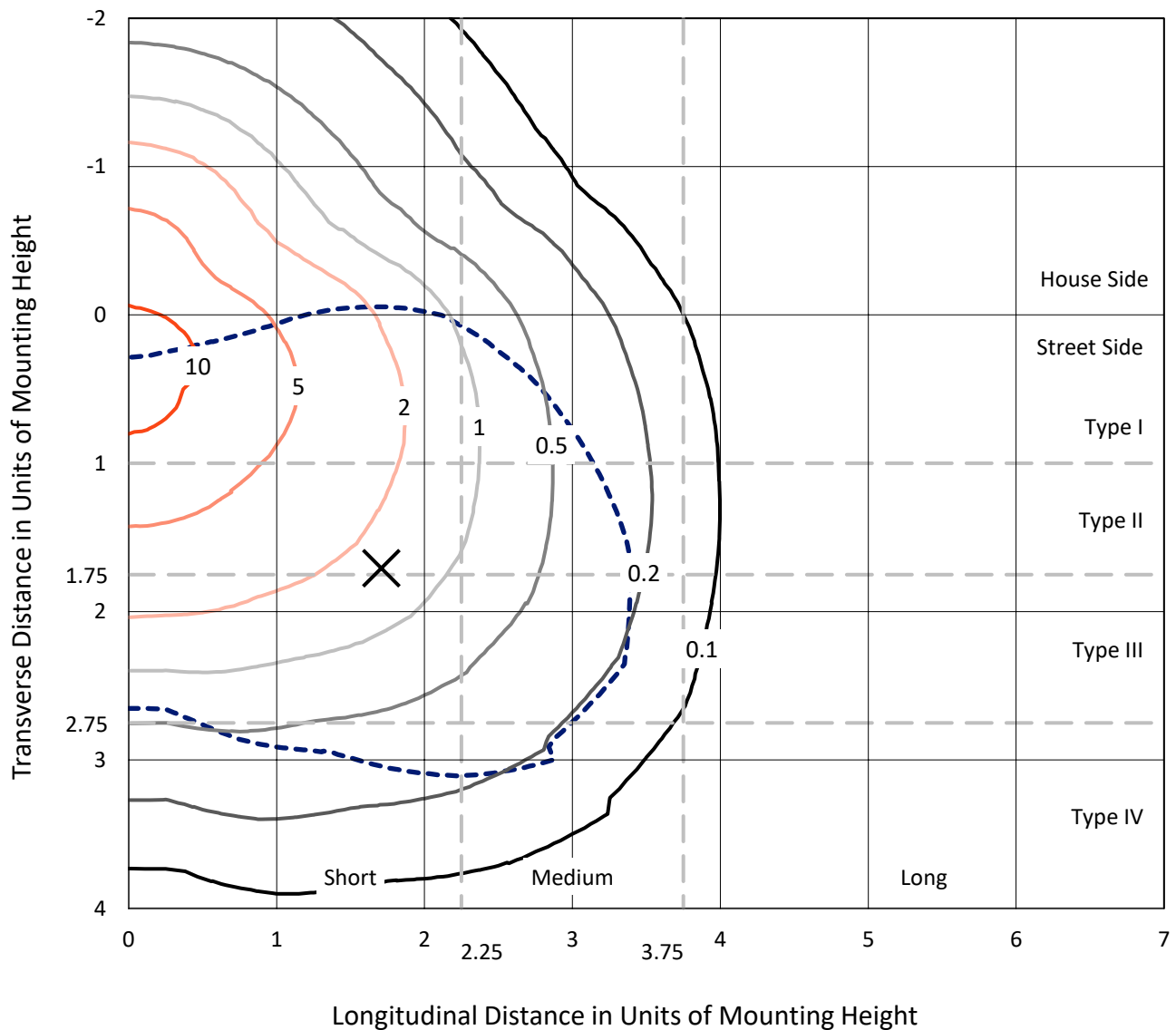


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

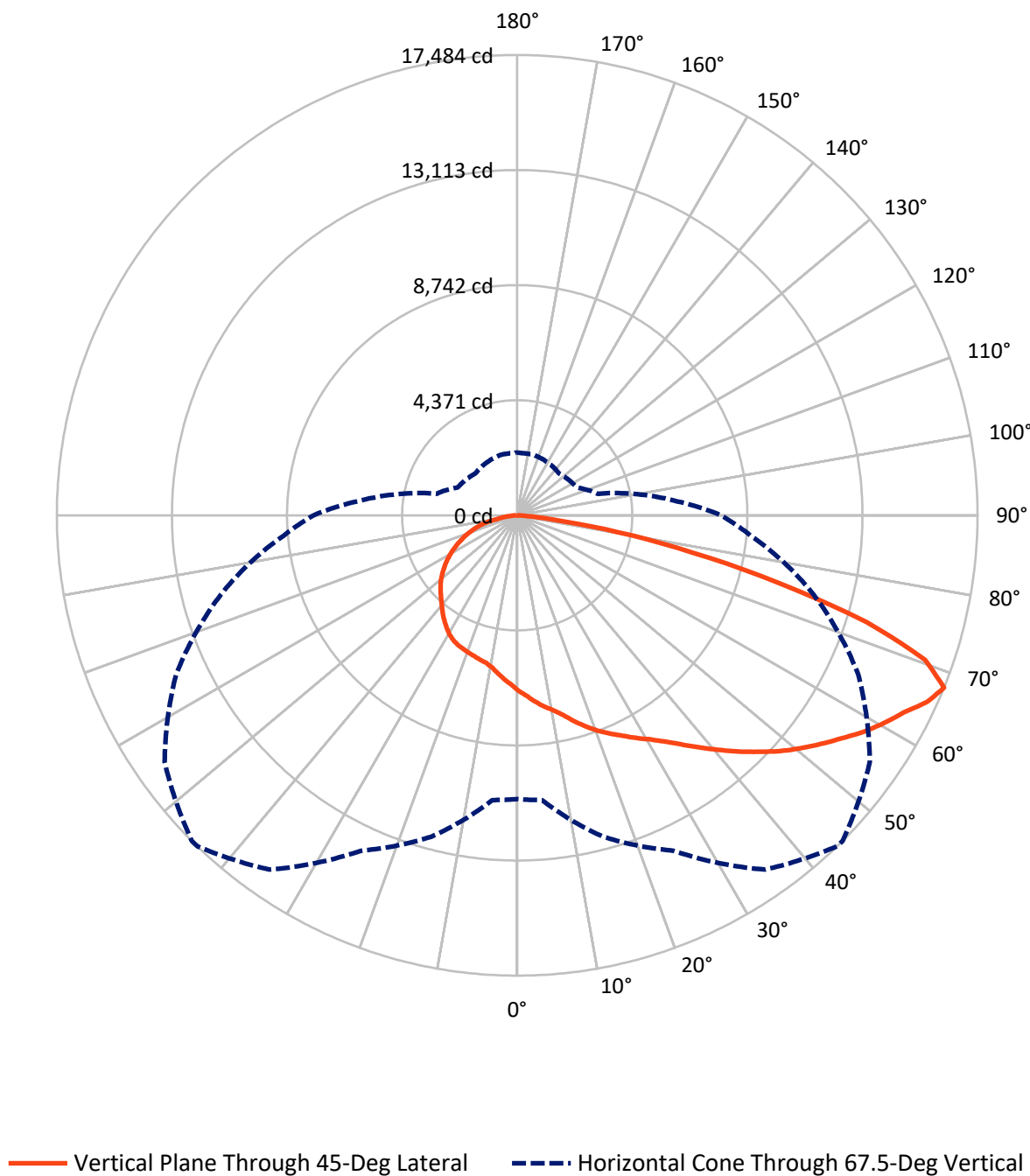


Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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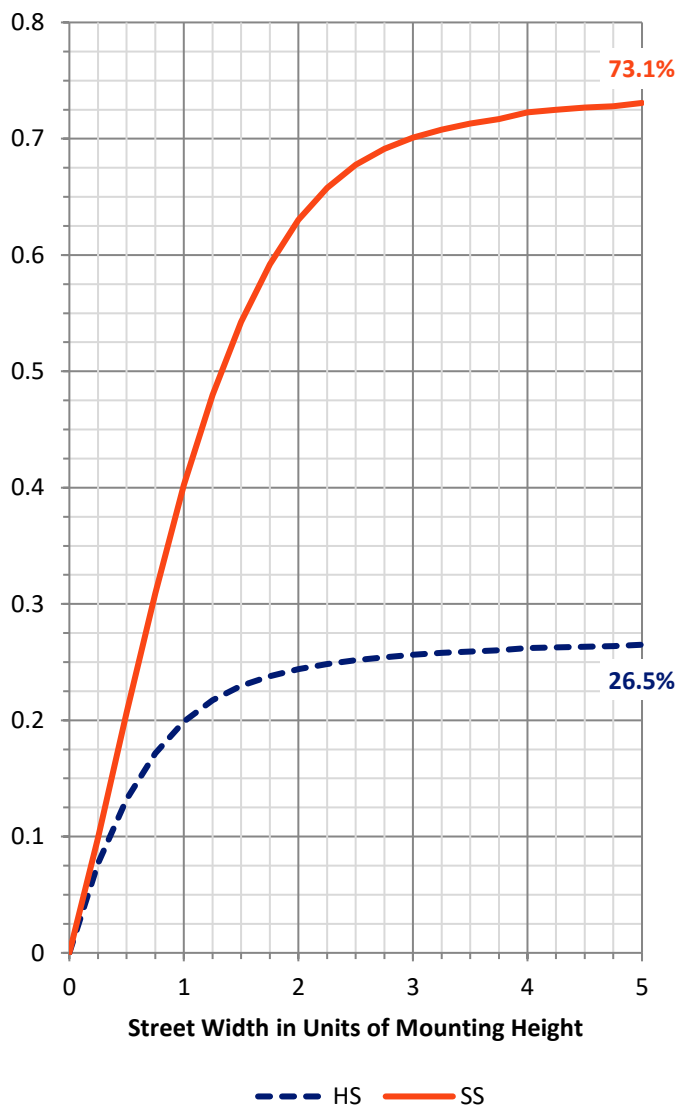
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10683.9	0.0	10683.9
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	29308.1	0.0	29308.1
	% Fixture	73.3	0.0	73.3
Total	Lumens	39992.0	0.0	39992.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.6	1.6
10°-20°	1972.7	4.9
20°-30°	3405.2	8.5
30°-40°	5021.5	12.6
40°-50°	6803.1	17.0
50°-60°	8315.0	20.8
60°-70°	8575.7	21.4
70°-80°	4697.2	11.7
80°-90°	563.0	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°	39992.0	100.0
0°-180°	39992.0	100.0

Coefficient of Utilization



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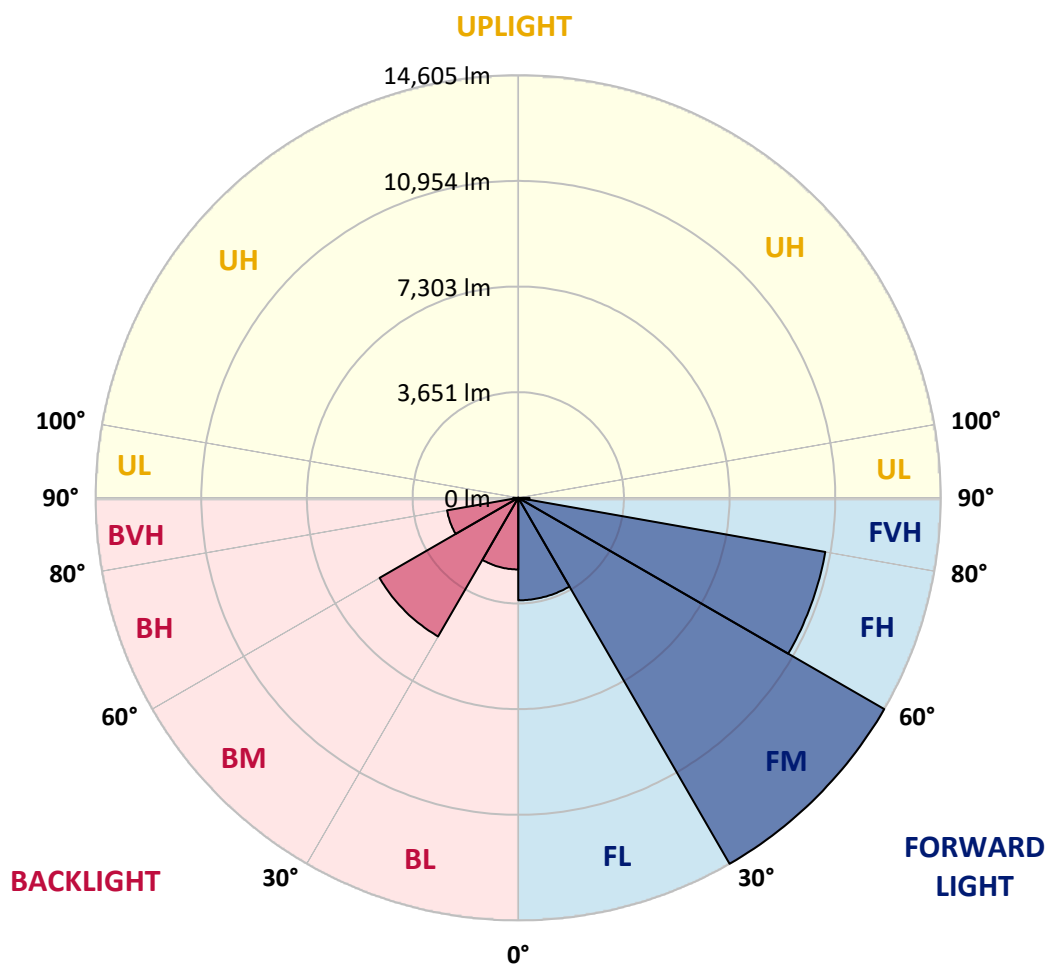
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3540.4	8.9			
FM	(30°-60°)	14605.5	36.5			
FH	(60°-80°)	10774.4	26.9			G4/12000
FVH	(80°-90°)	387.8	1.0			G3/500
BL	(0°-30°)	2476.2	6.2	B3/2500		
BM	(30°-60°)	5534.1	13.8	B4/8500		
BH	(60°-80°)	2498.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	175.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	6669.9	6669.9	6669.9	6669.9	6669.9	6669.9	6669.9	6669.9	6669.9	6669.9	6669.9
2.5°	6962.0	6955.9	6968.1	6925.5	6870.7	6864.6	6864.6	6828.1	6785.5	6700.3	6633.4
5°	7290.6	7278.5	7284.6	7223.7	7150.7	7114.2	7108.1	7029.0	6931.6	6797.7	6676.0
7.5°	7594.9	7582.8	7576.7	7509.7	7400.2	7339.3	7333.2	7217.6	7102.0	6895.1	6718.6
10°	7881.0	7868.8	7856.6	7765.3	7631.4	7540.2	7528.0	7381.9	7235.9	6980.3	6755.1
12.5°	8246.1	8221.8	8209.6	8100.0	7905.3	7807.9	7789.7	7594.9	7412.4	7102.0	6828.1
15°	8629.5	8611.2	8593.0	8489.5	8270.4	8142.6	8112.2	7868.8	7619.3	7260.2	6937.7
17.5°	8915.5	8897.3	8897.3	8806.0	8605.2	8459.1	8434.8	8142.6	7832.3	7406.3	7022.9
20°	9092.0	9073.8	9092.0	9037.2	8885.1	8763.4	8739.0	8416.5	8045.3	7540.2	7095.9
22.5°	9219.8	9201.6	9232.0	9207.6	9098.1	9025.1	9006.8	8690.4	8264.4	7680.1	7168.9
25°	9445.0	9445.0	9445.0	9402.4	9298.9	9274.6	9274.6	9000.7	8544.3	7862.7	7278.5
27.5°	9895.3	9871.0	9840.5	9718.8	9542.3	9536.3	9572.8	9317.2	8866.8	8100.0	7412.4
30°	10558.7	10546.5	10430.9	10175.3	9877.1	9846.6	9871.0	9658.0	9213.7	8349.6	7564.5
32.5°	11416.7	11374.1	11136.8	10753.4	10327.4	10187.4	10236.1	10010.9	9578.9	8605.2	7710.6
35°	12025.3	12037.5	11867.1	11520.2	11015.1	10643.9	10680.4	10406.5	9974.4	8891.2	7893.1
37.5°	12725.2	12767.8	12512.2	12250.5	11781.9	11149.0	11185.5	10814.3	10370.0	9250.2	8087.9
40°	13692.8	13607.6	13175.5	12865.1	12347.8	11678.4	11708.9	11270.7	10826.4	9591.0	8313.0
42.5°	14502.2	14350.0	13826.7	13431.1	12810.4	12238.3	12268.7	11763.6	11288.9	9968.3	8562.6
45°	15664.5	15244.6	14490.0	14295.3	13285.0	12786.0	12816.4	12287.0	11775.8	10370.0	8830.3
47.5°	16340.1	15670.6	15189.9	15086.4	13808.4	13352.0	13388.5	12840.8	12299.2	10826.4	9110.3
50°	16297.5	15865.4	15725.4	15469.8	14270.9	13881.4	13918.0	13412.8	12828.6	11276.8	9378.0
52.5°	16017.5	16096.6	16023.6	15597.6	14733.4	14392.6	14435.2	13978.8	13370.2	11696.7	9627.5
55°	16449.6	16504.4	16364.4	15804.5	15244.6	14903.8	14952.5	14575.2	13905.8	12067.9	9840.5
57.5°	16966.9	16772.1	16632.2	16169.7	15774.1	15457.6	15512.4	15183.8	14368.3	12366.1	10004.9
60°	16942.5	16534.8	16674.8	16194.0	16133.1	15968.8	16017.5	15682.8	14721.3	12585.2	10071.8
62.5°	15695.0	15475.9	16181.8	16017.5	16425.3	16425.3	16486.1	15987.1	14934.3	12676.5	10035.3
65°	13528.5	13540.6	14782.1	15463.7	16772.1	17052.1	17100.8	16175.7	14812.5	12408.7	9694.5
67.5°	10777.7	10856.9	12640.0	14057.9	16425.3	17478.1	17484.2	16346.1	14289.2	11654.1	8903.4
70°	7887.0	7947.9	10053.5	11775.8	14788.2	16534.8	16437.4	15865.4	13151.2	10339.6	7668.0
72.5°	5331.1	5385.8	7552.3	9043.3	12134.8	14082.3	13869.3	14021.4	11209.8	8495.6	6164.8
75°	3584.5	3651.4	5373.7	6469.1	8927.7	10692.5	10217.9	10619.5	8672.1	6432.6	4497.3
77.5°	2257.8	2300.4	3414.1	4241.7	6097.9	7278.5	6803.8	6809.9	4996.3	3462.8	2416.0
80°	1436.2	1448.4	2069.1	2446.4	3529.7	4375.6	3870.5	3146.3	2251.7	1837.9	1442.3
82.5°	833.7	815.5	1235.4	1381.4	1679.6	1661.4	1375.4	1302.3	985.9	918.9	736.4
85°	334.7	310.4	541.6	505.1	511.2	541.6	401.7	401.7	322.5	249.5	182.6
87.5°	66.9	66.9	73.0	66.9	66.9	73.0	54.8	54.8	48.7	48.7	48.7
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°	6669.9	6669.9	6669.9	6669.9	6669.9	6669.9	6669.9	6669.9	6669.9	6669.9	6669.9
2.5°	6621.2	6609.1	6578.6	6499.5	6456.9	6432.6	6396.1	6383.9	6377.8	6383.9	6402.1
5°	6639.5	6596.9	6511.7	6383.9	6298.7	6243.9	6183.1	6158.7	6140.5	6140.5	6158.7
7.5°	6651.7	6584.7	6438.7	6250.0	6128.3	6043.1	5970.1	5939.6	5933.5	5951.8	5957.9
10°	6657.7	6560.4	6353.5	6116.1	5957.9	5848.3	5775.3	5757.1	5775.3	5811.8	5817.9
12.5°	6700.3	6566.5	6304.8	6024.8	5836.2	5726.6	5671.9	5671.9	5720.5	5787.5	5793.6
15°	6773.4	6609.1	6280.4	5951.8	5757.1	5659.7	5641.4	5671.9	5744.9	5848.3	5860.5
17.5°	6828.1	6633.4	6225.7	5854.4	5653.6	5592.7	5623.2	5696.2	5799.7	5939.6	5951.8
20°	6864.6	6633.4	6146.5	5738.8	5550.1	5538.0	5623.2	5738.8	5848.3	6012.7	6030.9
22.5°	6901.2	6621.2	6055.3	5598.8	5434.5	5471.0	5629.3	5775.3	5884.9	6061.3	6091.8
25°	6968.1	6639.5	5964.0	5458.9	5312.8	5416.3	5623.2	5799.7	5915.3	6097.9	6146.5
27.5°	7059.4	6682.1	5897.0	5331.1	5191.1	5331.1	5580.6	5793.6	5915.3	6091.8	6146.5
30°	7156.8	6730.8	5817.9	5191.1	5051.1	5209.3	5489.3	5726.6	5866.6	6030.9	6097.9
32.5°	7260.2	6785.5	5751.0	5038.9	4880.7	5045.0	5355.4	5623.2	5775.3	5927.5	6000.5
35°	7400.2	6882.9	5714.5	4917.2	4728.6	4874.6	5185.0	5489.3	5653.6	5793.6	5878.8
37.5°	7570.6	7004.6	5696.2	4795.5	4564.3	4686.0	5002.4	5325.0	5501.5	5617.1	5696.2
40°	7765.3	7156.8	5690.1	4679.9	4399.9	4491.2	4813.8	5136.3	5306.7	5398.0	5464.9
42.5°	7984.4	7327.2	5677.9	4564.3	4235.6	4308.7	4631.2	4947.7	5093.7	5172.8	5233.7
45°	8215.7	7497.6	5653.6	4424.3	4059.1	4144.3	4442.5	4722.5	4874.6	4941.6	5008.5
47.5°	8446.9	7668.0	5604.9	4266.1	3900.9	3980.0	4241.7	4485.1	4606.9	4667.7	4734.7
50°	8672.1	7820.1	5489.3	4083.5	3736.6	3809.6	4010.5	4174.8	4266.1	4314.7	4381.7
52.5°	8872.9	7923.6	5325.0	3870.5	3572.3	3608.8	3742.7	3882.7	3955.7	3961.8	4022.6
55°	9043.3	7978.3	5087.6	3651.4	3395.8	3401.9	3474.9	3584.5	3614.9	3590.6	3633.2
57.5°	9140.7	7947.9	4825.9	3426.2	3213.2	3188.9	3243.7	3298.4	3304.5	3243.7	3286.3
60°	9165.0	7807.9	4485.1	3201.1	3030.7	2963.7	2982.0	2969.8	2957.6	2933.3	2969.8
62.5°	9043.3	7509.7	4107.8	2982.0	2835.9	2732.5	2726.4	2720.3	2738.6	2744.6	2750.7
65°	8599.1	6949.8	3657.5	2756.8	2629.0	2489.0	2483.0	2556.0	2580.3	2543.8	2556.0
67.5°	7741.0	6091.8	3164.6	2495.1	2367.3	2245.6	2294.3	2336.9	2379.5	2367.3	2379.5
70°	6523.9	5002.4	2714.2	2203.0	2081.3	2014.4	2069.1	2105.6	2111.7	2099.6	2111.7
72.5°	5130.2	3907.0	2294.3	1904.8	1795.3	1764.8	1831.8	1862.2	1917.0	1941.3	1947.4
75°	3706.2	2884.6	1880.5	1582.3	1491.0	1491.0	1551.8	1606.6	1655.3	1624.9	1606.6
77.5°	2069.1	1722.2	1351.0	1089.3	1107.6	1192.8	1217.1	1278.0	1326.7	1320.6	1308.4
80°	1253.7	1077.2	912.9	705.9	699.9	766.8	925.0	1028.5	1052.8	998.1	992.0
82.5°	651.2	566.0	486.9	395.6	438.2	511.2	535.5	645.1	712.0	687.7	718.1
85°	164.3	158.2	176.5	182.6	225.2	249.5	273.9	322.5	213.0	103.5	103.5
87.5°	48.7	48.7	60.9	60.9	79.1	97.4	91.3	91.3	48.7	6.1	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)