

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: EPHESUS

Report Number: P977434

Luminaire Tested: **EPH-VN-08-E-740-U-T2**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977434
Test Lab: INNOVATION CENTER(G2)
Issue Date: 03/26/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-740-U-T2
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2
distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67446.1 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

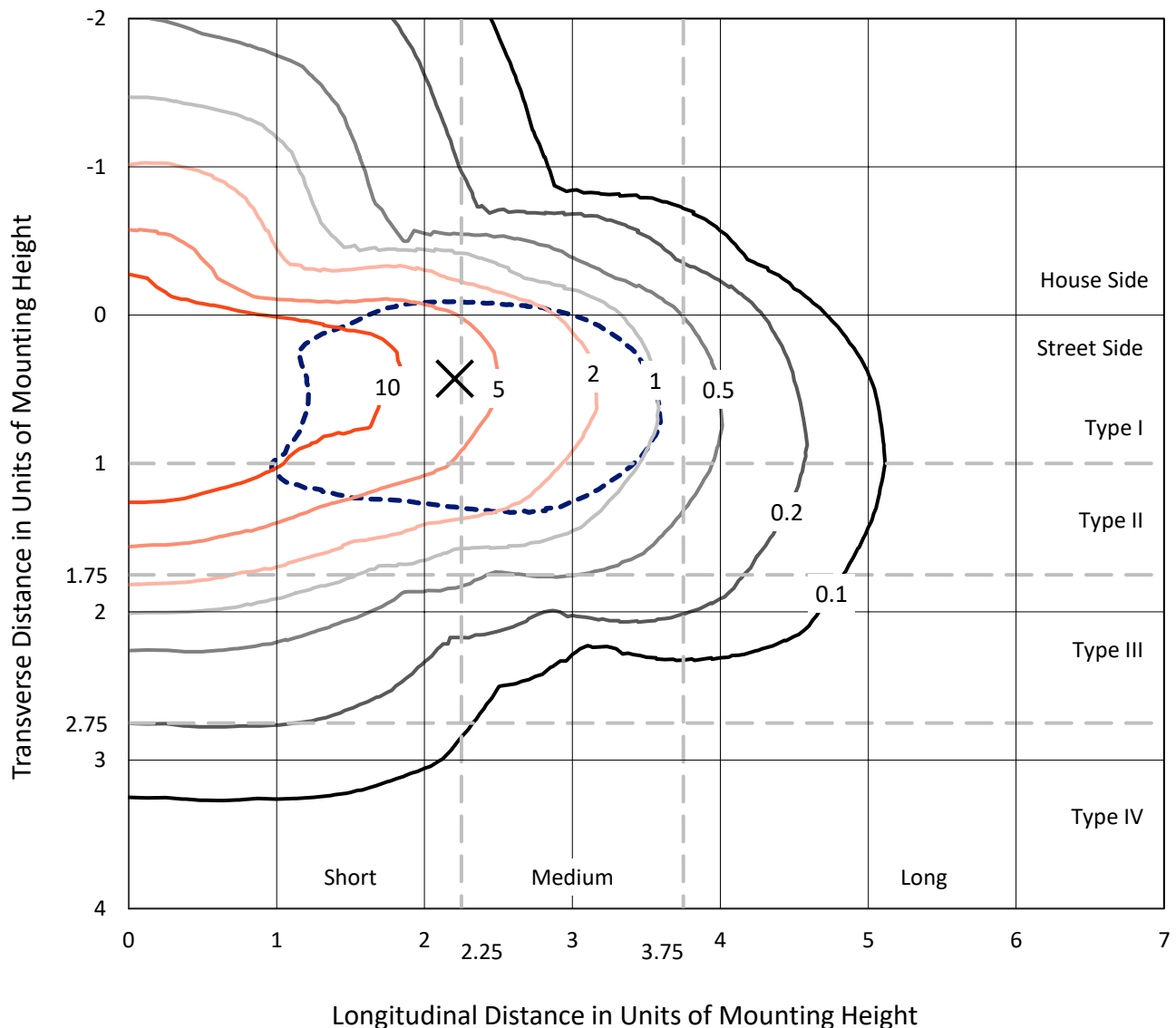
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

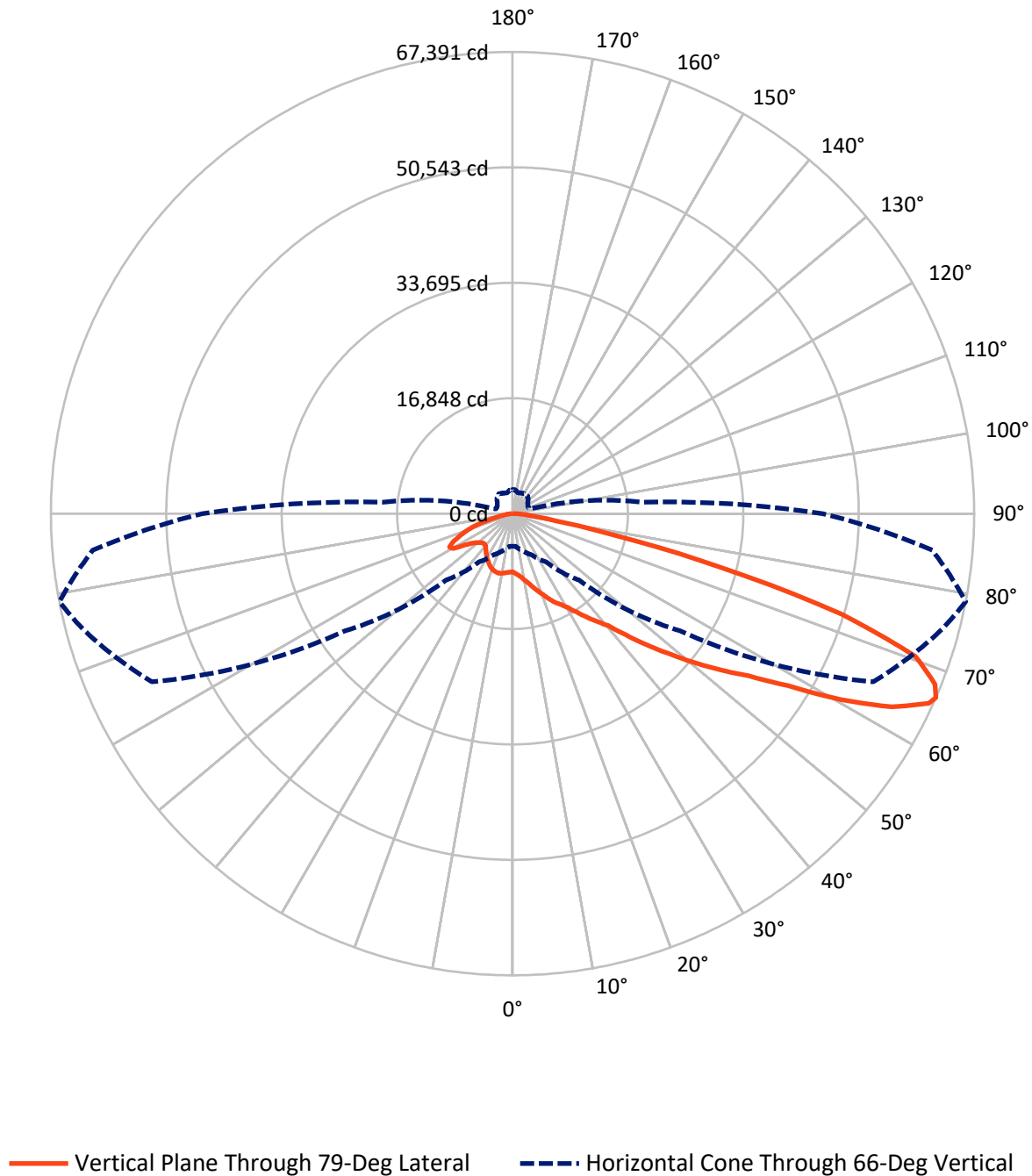
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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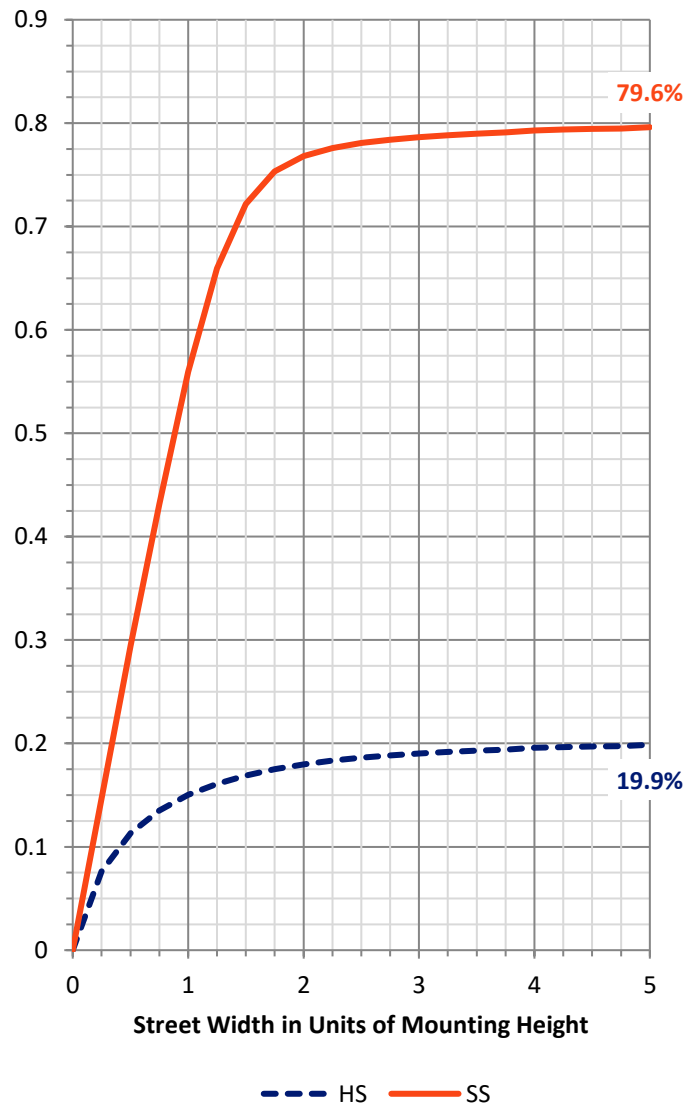
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13619.8	0.0	13619.8
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	53826.3	0.0	53826.3
	% Fixture	79.8	0.0	79.8
Total	Lumens	67446.1	0.0	67446.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.4	1.2
10°-20°	2585.9	3.8
20°-30°	4438.9	6.6
30°-40°	6857.1	10.2
40°-50°	10983.4	16.3
50°-60°	16399.0	24.3
60°-70°	16850.0	25.0
70°-80°	7469.4	11.1
80°-90°	1024.9	1.5
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°	67446.1	100.0
0°-180°	67446.1	100.0

Coefficient of Utilization



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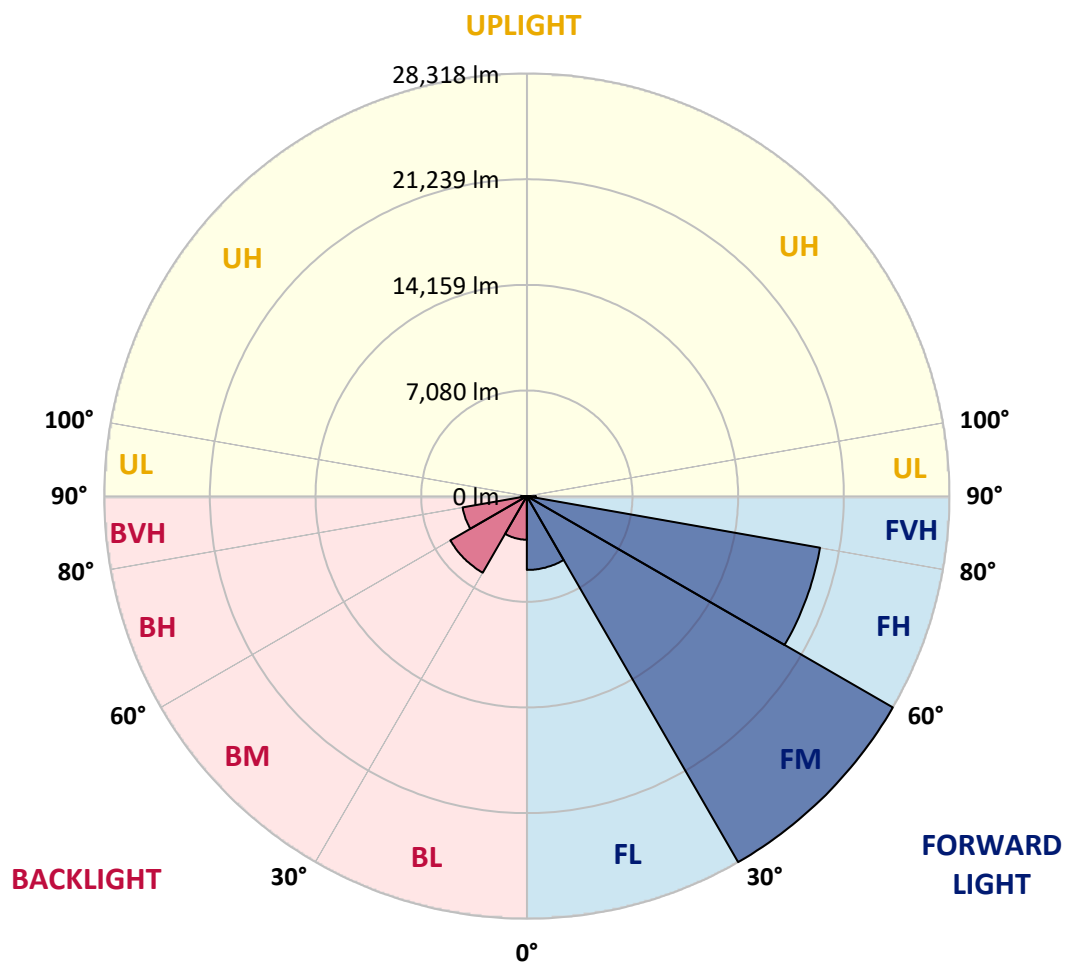
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4944.2	7.3			
FM	(30°-60°)	28318.3	42.0			
FH	(60°-80°)	19949.0	29.6			G5
FVH	(80°-90°)	614.7	0.9			G4/750
BL	(0°-30°)	2918.0	4.3	B4/5000		
BM	(30°-60°)	5921.3	8.8	B4/8500		
BH	(60°-80°)	4370.3	6.5	B4/5000		G4/5000
BVH	(80°-90°)	410.2	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8516.6	8516.6	8516.6	8516.6	8516.6	8516.6	8516.6	8516.6	8516.6	8516.6	8516.6
2.5°	9058.1	9065.5	9065.5	9035.9	9043.3	9065.5	8983.9	8805.9	8805.9	8776.2	8724.3
5°	9614.5	9577.4	9525.5	9532.9	9503.2	9503.2	9414.2	9243.6	9095.2	9035.9	8880.1
7.5°	9688.7	9725.8	9718.4	9807.4	9851.9	9851.9	9896.4	9755.5	9532.9	9392.0	9236.2
10°	9837.1	9740.6	9733.2	9940.9	10007.7	10163.5	10341.5	10267.4	10081.9	9881.6	9673.9
12.5°	9926.1	9985.5	9985.5	10089.3	10245.1	10475.1	10786.7	10927.6	10638.3	10430.6	10111.6
15°	10059.6	9978.0	10215.4	10304.5	10601.2	10764.4	11209.5	11573.0	11380.2	11127.9	10623.5
17.5°	10119.0	10067.1	10200.6	10363.8	10868.3	11113.1	11654.6	12159.1	11995.9	11832.7	11313.4
20°	10423.2	10415.7	10475.1	10608.6	10972.1	11454.3	12129.4	12826.8	12886.1	12589.4	11884.6
22.5°	11165.0	11068.6	11068.6	11016.6	11172.4	11669.5	12582.0	13546.4	13813.5	13464.8	12530.0
25°	11847.5	11981.1	11899.5	11662.1	11602.7	11862.4	12908.4	14310.5	14666.6	14340.2	13405.4
27.5°	12722.9	12767.4	12908.4	12589.4	12181.4	12263.0	13264.5	14740.8	15475.2	15037.5	13902.5
30°	13984.1	13902.5	13872.8	13516.7	12982.6	12871.3	13672.5	15371.4	16536.1	15920.3	14488.6
32.5°	14837.2	15037.5	15030.1	14540.5	13895.1	13650.2	14177.0	15964.9	17671.1	17099.9	15571.7
35°	16528.7	16736.4	16573.2	15853.6	15096.9	14607.2	14904.0	16736.4	18969.4	18524.3	16491.6
37.5°	18687.5	19177.1	18828.4	17500.5	16432.2	15898.1	15912.9	17574.7	20297.3	19933.8	17478.3
40°	20178.6	20838.9	20356.7	19110.3	17975.3	17470.8	17270.5	18568.8	21884.9	21499.1	19021.3
42.5°	22025.9	22574.8	22322.6	21091.1	19763.2	19332.9	18932.3	20230.6	24310.8	24132.7	21002.1
45°	24043.7	24303.4	24221.8	23442.8	21966.5	21818.1	20935.3	22419.0	27167.0	27241.1	23479.9
47.5°	25920.6	26061.6	26217.4	25653.6	24733.7	24859.8	23242.5	24763.3	29941.5	30431.1	26239.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8516.6	8516.6	8516.6	8516.6	8516.6	8516.6	8516.6	8516.6	8516.6	8516.6	8516.6
2.5°	8694.6	8575.9	8524.0	8353.4	8308.8	8197.6	8145.6	8078.9	8056.6	7960.2	8049.2
5°	8761.4	8724.3	8516.6	8301.4	8138.2	8064.0	7952.8	7804.4	7789.5	7656.0	7641.2
7.5°	9043.3	8917.2	8553.7	8323.7	7997.3	7811.8	7567.0	7492.8	7396.4	7351.8	7448.3
10°	9481.0	9162.0	8620.4	8041.8	7641.2	7418.6	7240.6	7188.6	7196.1	7166.4	7121.9
12.5°	9792.6	9488.4	8509.1	7804.4	7285.1	7069.9	7055.1	7107.0	7188.6	7151.5	7203.5
15°	10237.7	9666.5	8427.5	7411.2	6995.8	6936.4	6929.0	7084.8	7077.4	7077.4	7069.9
17.5°	10653.1	9844.5	8130.8	7069.9	6691.6	6736.1	6788.0	6780.6	6854.8	6884.5	6936.4
20°	11179.8	10052.2	7715.4	6728.7	6461.6	6446.8	6439.4	6446.8	6521.0	6565.5	6528.4
22.5°	11639.8	10096.7	7366.7	6402.3	6187.1	6127.8	6031.3	6127.8	6090.7	6105.5	6150.0
25°	12040.4	10104.2	6869.6	6157.4	5912.6	5779.1	5704.9	5697.5	5630.7	5623.3	5623.3
27.5°	12374.2	9851.9	6431.9	5816.2	5586.2	5460.1	5452.7	5371.1	5200.4	5089.2	5104.0
30°	12633.9	9659.0	6127.8	5519.4	5296.9	5274.6	5207.9	5022.4	4799.8	4658.9	4658.9
32.5°	13093.9	9273.3	5712.3	5215.3	5104.0	5074.3	4918.5	4755.3	4547.6	4414.1	4391.8
35°	13435.1	8917.2	5437.8	4955.6	4903.7	4844.4	4710.8	4532.8	4473.4	4443.7	4466.0
37.5°	13820.9	8516.6	5104.0	4733.1	4785.0	4673.7	4517.9	4436.3	4644.1	4592.1	4614.4
40°	14436.6	8234.7	4777.6	4599.5	4651.5	4525.4	4325.1	4295.4	4555.0	4369.6	4325.1
42.5°	15564.2	8227.2	4577.3	4399.2	4436.3	4339.9	4161.8	4147.0	4250.9	4028.3	3961.5
45°	16966.4	8486.9	4428.9	4250.9	4221.2	4206.4	4147.0	4080.2	3991.2	3701.9	3627.7
47.5°	18643.0	8909.8	4399.2	4028.3	4065.4	4191.5	4117.3	3946.7	3716.7	3531.3	3494.2
50°	20675.7	9785.2	4325.1	3865.1	3931.9	4132.2	4072.8	3835.4	3627.7	3509.0	3486.7
52.5°	22923.5	10890.5	4228.6	3612.9	3761.2	4080.2	4109.9	3887.4	3583.2	3479.3	3464.5