

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: P977435

Luminaire Tested: **EPH-VN-08-E-750-U-T2**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977435
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-750-U-T2
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68990.6 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

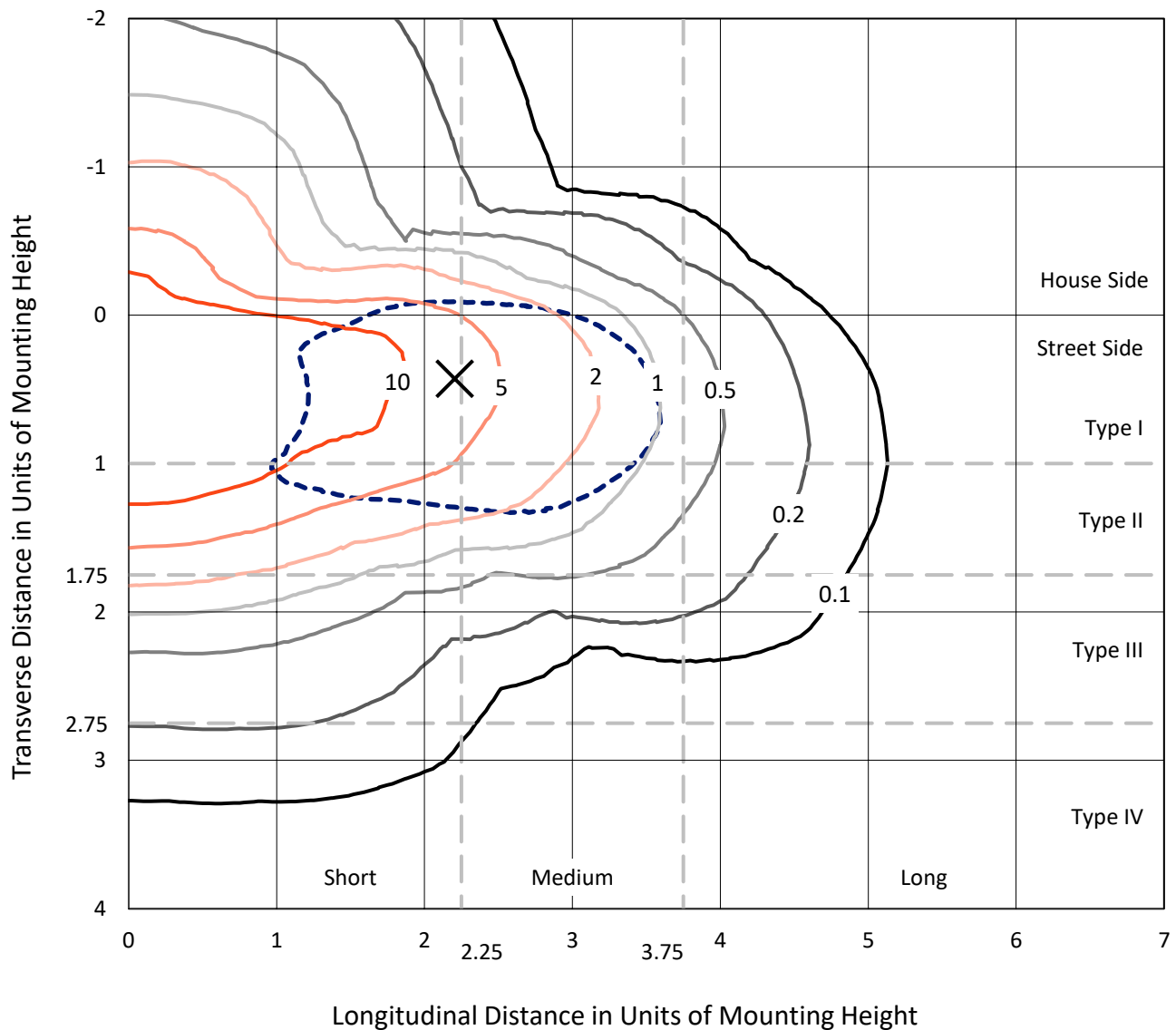
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

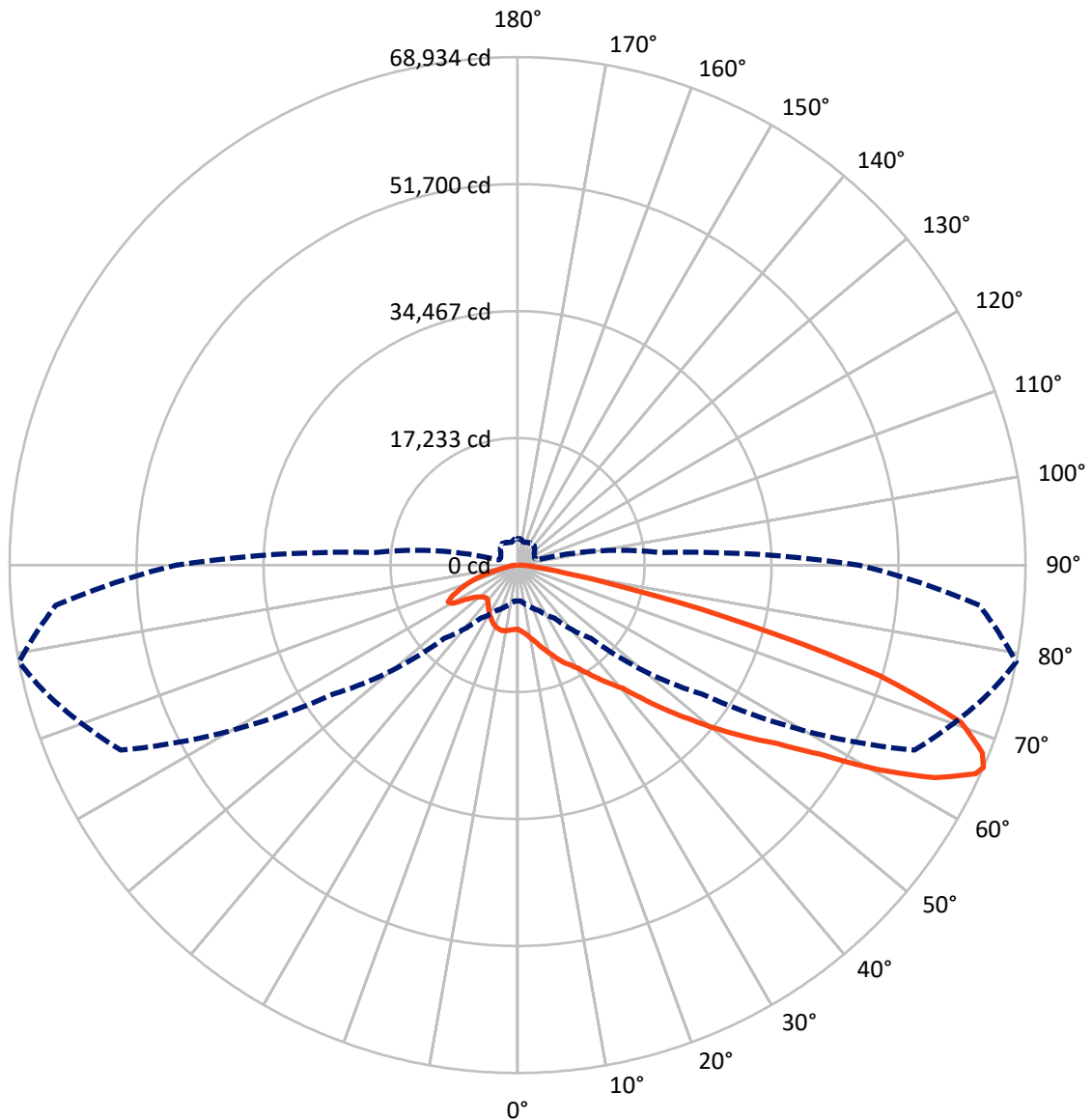
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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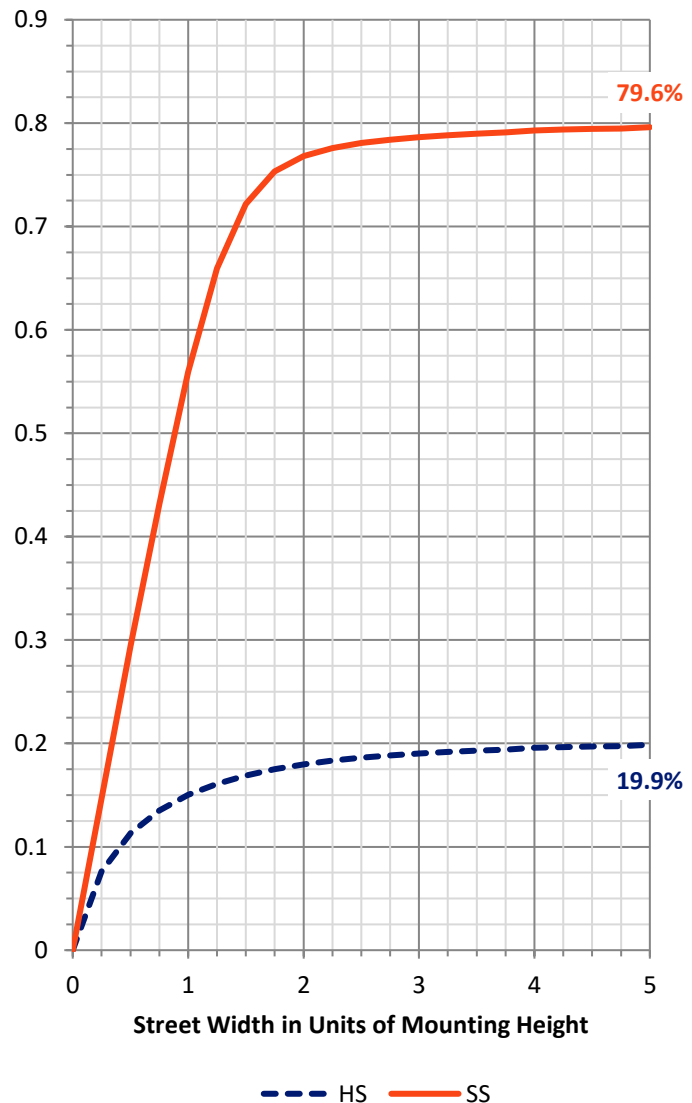
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13931.7	0.0	13931.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	55058.9	0.0	55058.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	68990.6	0.0	68990.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	856.6	1.2
10°-20°	2645.2	3.8
20°-30°	4540.5	6.6
30°-40°	7014.2	10.2
40°-50°	11235.0	16.3
50°-60°	16774.6	24.3
60°-70°	17235.9	25.0
70°-80°	7640.4	11.1
80°-90°	1048.3	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°	68990.6	100.0
0°-180°	68990.6	100.0

Coefficient of Utilization



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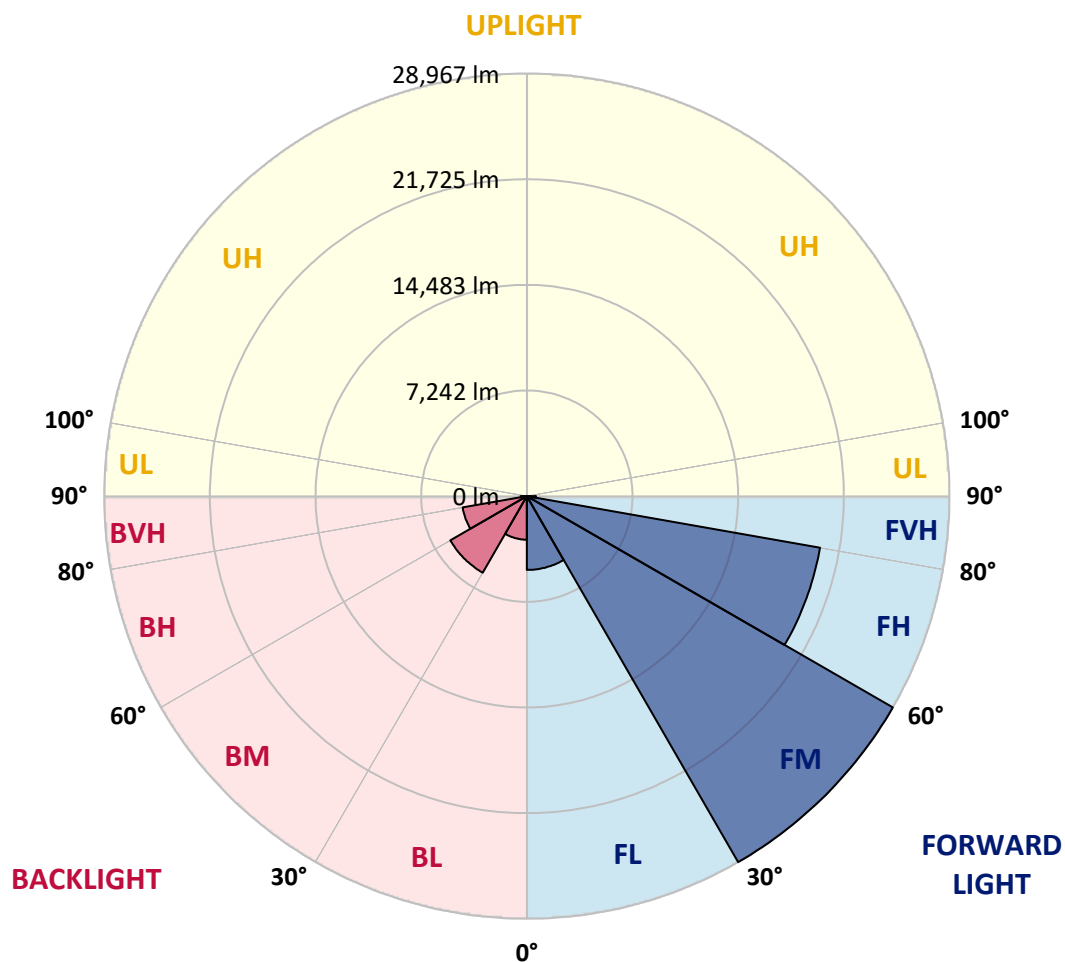
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5057.4	7.3			
FM	(30°-60°)	28966.8	42.0			
FH	(60°-80°)	20405.9	29.6			G5
FVH	(80°-90°)	628.7	0.9			G4/750
BL	(0°-30°)	2984.8	4.3	B4/5000		
BM	(30°-60°)	6056.9	8.8	B4/8500		
BH	(60°-80°)	4470.4	6.5	B4/5000		G4/5000
BVH	(80°-90°)	419.6	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°	8711.6	8711.6	8711.6	8711.6	8711.6	8711.6	8711.6	8711.6	8711.6	8711.6	8711.6
2.5°	9265.6	9273.1	9273.1	9242.8	9250.4	9273.1	9189.7	9007.5	9007.5	8977.2	8924.1
5°	9834.7	9796.8	9743.6	9751.2	9720.9	9720.9	9629.8	9455.3	9303.5	9242.8	9083.4
7.5°	9910.6	9948.5	9940.9	10032.0	10077.5	10077.5	10123.1	9978.9	9751.2	9607.0	9447.7
10°	10062.3	9963.7	9956.1	10168.6	10236.9	10396.2	10578.4	10502.5	10312.8	10107.9	9895.4
12.5°	10153.4	10214.1	10214.1	10320.4	10479.7	10715.0	11033.7	11177.9	10881.9	10669.4	10343.1
15°	10290.0	10206.5	10449.4	10540.4	10844.0	11010.9	11466.2	11838.1	11640.8	11382.7	10866.7
17.5°	10350.7	10297.6	10434.2	10601.1	11117.2	11367.6	11921.5	12437.5	12270.6	12103.7	11572.5
20°	10661.8	10654.3	10715.0	10851.6	11223.4	11716.6	12407.2	13120.5	13181.2	12877.7	12156.8
22.5°	11420.7	11322.0	11322.0	11268.9	11428.3	11936.7	12870.1	13856.6	14129.8	13773.1	12817.0
25°	12118.8	12255.4	12172.0	11929.1	11868.4	12134.0	13204.0	14638.2	15002.5	14668.6	13712.4
27.5°	13014.3	13059.8	13204.0	12877.7	12460.3	12543.8	13568.2	15078.3	15829.6	15381.9	14220.8
30°	14304.3	14220.8	14190.5	13826.2	13279.9	13166.0	13985.6	15723.4	16914.8	16284.9	14820.3
32.5°	15177.0	15381.9	15374.3	14873.5	14213.3	13962.8	14501.6	16330.4	18075.8	17491.5	15928.3
35°	16907.2	17119.7	16952.7	16216.6	15442.6	14941.8	15245.3	17119.7	19403.8	18948.5	16869.2
37.5°	19115.4	19616.3	19259.6	17901.3	16808.5	16262.2	16277.3	17977.2	20762.1	20390.3	17878.5
40°	20640.7	21316.1	20822.8	19548.0	18386.9	17870.9	17666.0	18994.0	22386.1	21991.5	19456.9
42.5°	22530.3	23091.8	22833.8	21574.1	20215.8	19775.6	19365.8	20693.8	24867.5	24685.4	21483.0
45°	24594.3	24859.9	24776.4	23979.7	22469.5	22317.8	21414.7	22932.4	27789.1	27865.0	24017.6
47.5°	26514.2	26658.4	26817.8	26241.0	25300.1	25429.1	23774.8	25330.4	30627.2	31128.0	26840.5
50°	27007.5	27500.7	27872.6	28259.6	28464.5	29337.1	26377.6	28274.7	33890.2	34861.6	29982.2
52.5°	26506.6	26468.7	27599.4	28813.5	30862.4	32691.3	29921.5	31932.4	36773.9	38693.8	32858.2
55°	24230.1	24154.2	25975.4	27584.2	31583.3	34558.0	34983.0	36804.2	40257.0	42753.6	36751.1
57.5°	20246.1	19775.6	21763.8	24404.6	30020.1	34762.9	40067.3	44036.1	45614.5	48460.2	42692.9
60°	13606.2	13408.9	15313.6	18462.8	24374.3	31856.5	43110.3	53089.1	53165.0	56367.4	51912.9
62.5°	8377.7	8415.6	9637.4	11997.4	17066.5	25254.5	41797.5	60321.0	60336.2	63546.1	59501.4
65°	5478.9	5501.7	6488.2	7793.4	10661.8	17127.2	34565.6	60890.1	65321.8	68304.1	62977.0
66°	4879.4	4887.0	5736.9	6799.3	8833.0	14016.0	30528.5	59410.4	66444.9	68933.9	62931.4
67.5°	4113.0	4211.6	4894.6	5714.1	6890.4	10069.9	24222.5	55130.4	65868.2	68053.7	61504.8
70°	3217.5	3270.6	3809.4	4644.2	5167.8	5828.0	14395.4	44939.1	60290.6	63834.5	56314.2
72.5°	2580.1	2625.6	3035.4	3771.5	4196.4	3839.8	7838.9	32607.8	47625.4	51404.5	44294.1
75°	2177.9	2185.5	2382.8	2967.1	3452.8	2883.6	4173.7	20929.1	30558.9	32319.4	27136.5
77.5°	1760.5	1790.9	1927.5	2261.4	2777.4	2269.0	2489.0	11724.2	15343.9	15472.9	12543.8
80°	1434.2	1449.4	1532.9	1646.7	2117.2	1677.1	1684.6	5721.7	6579.2	6427.5	5099.5
82.5°	1130.7	1145.9	1244.5	1221.7	1555.6	1199.0	1047.2	2754.6	3027.8	2967.1	2344.8
85°	637.4	637.4	978.9	978.9	986.5	758.8	637.4	1297.6	1601.2	1494.9	1100.3
87.5°	204.9	212.5	296.0	311.1	493.3	341.5	311.1	485.7	758.8	667.8	394.6
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°	8711.6	8711.6	8711.6	8711.6	8711.6	8711.6	8711.6	8711.6	8711.6	8711.6	8711.6
2.5°	8893.7	8772.3	8719.2	8544.6	8499.1	8385.3	8332.2	8263.9	8241.1	8142.5	8233.5
5°	8962.0	8924.1	8711.6	8491.5	8324.6	8248.7	8134.9	7983.1	7967.9	7831.3	7816.2
7.5°	9250.4	9121.4	8749.5	8514.3	8180.4	7990.7	7740.3	7664.4	7565.7	7520.2	7618.9
10°	9698.1	9371.8	8817.8	8225.9	7816.2	7588.5	7406.4	7353.3	7360.8	7330.5	7285.0
12.5°	10016.8	9705.7	8704.0	7983.1	7451.9	7231.8	7216.7	7269.8	7353.3	7315.3	7368.4
15°	10472.1	9887.8	8620.5	7580.9	7156.0	7095.2	7087.7	7247.0	7239.4	7239.4	7231.8
17.5°	10897.1	10069.9	8317.0	7231.8	6844.8	6890.4	6943.5	6935.9	7011.8	7042.1	7095.2
20°	11435.9	10282.4	7892.0	6882.8	6609.6	6594.4	6586.8	6594.4	6670.3	6715.8	6677.9
22.5°	11906.4	10327.9	7535.4	6548.9	6328.8	6268.1	6169.4	6268.1	6230.2	6245.3	6290.9
25°	12316.1	10335.5	7026.9	6298.5	6048.0	5911.4	5835.6	5828.0	5759.7	5752.1	5752.1
27.5°	12657.6	10077.5	6579.2	5949.4	5714.1	5585.1	5577.5	5494.1	5319.5	5205.7	5220.9
30°	12923.2	9880.2	6268.1	5645.8	5418.2	5395.4	5327.1	5137.4	4909.8	4765.6	4765.6
32.5°	13393.7	9485.6	5843.1	5334.7	5220.9	5190.5	5031.2	4864.2	4651.7	4515.2	4492.4
35°	13742.8	9121.4	5562.4	5069.1	5016.0	4955.3	4818.7	4636.6	4575.9	4545.5	4568.3
37.5°	14137.4	8711.6	5220.9	4841.5	4894.6	4780.8	4621.4	4537.9	4750.4	4697.3	4720.0
40°	14767.2	8423.2	4887.0	4704.9	4758.0	4629.0	4424.1	4393.7	4659.3	4469.6	4424.1
42.5°	15920.7	8415.6	4682.1	4500.0	4537.9	4439.3	4257.1	4242.0	4348.2	4120.6	4052.3
45°	17354.9	8681.2	4530.3	4348.2	4317.9	4302.7	4242.0	4173.7	4082.6	3786.7	3710.8
47.5°	19069.9	9113.8	4500.0	4120.6	4158.5	4287.5	4211.6	4037.1	3801.8	3612.1	3574.2
50°	21149.1	10009.2	4424.1	3953.6	4021.9	4226.8	4166.1	3923.3	3710.8	3589.4	3566.6
52.5°	23448.5	11139.9	4325.4	3695.6	3847.4	4173.7	4204.0	3976.4	3665.2	3559.0	3543.8
55°	26157.6	12809.4	4211.6	3414.8	3642.5	4120.6	4204.0	3824.6	3604.5	3604.5	3589.4
57.5°	31507.4	15814.4	3976.4	3156.8	3460.4	4021.9	4082.6	3832.2	3612.1	3612.1	3581.8
60°	39354.0	20504.1	3528.7	2959.5	3285.8	3885.3	3991.6	3718.4	3528.7	3574.2	3566.6
62.5°	45493.1	21930.8	3149.2	2769.8	3111.3	3634.9	3870.1	3596.9	3430.0	3596.9	3612.1
65°	46805.9	20488.9	2762.2	2564.9	2868.5	3392.1	3695.6	3422.4	3285.8	3612.1	3627.3
66°	46335.4	19365.8	2625.6	2504.2	2762.2	3270.6	3589.4	3361.7	3209.9	3596.9	3604.5
67.5°	44240.9	17681.2	2473.9	2375.2	2618.0	3096.1	3467.9	3278.2	3088.5	3551.4	3483.1
70°	39687.8	14994.9	2215.8	2147.5	2413.1	2807.7	3187.2	3065.8	2898.8	3270.6	3149.2
72.5°	30566.5	11982.2	1942.7	1950.2	2177.9	2511.8	2906.4	2822.9	2678.7	2868.5	2792.6
75°	18614.6	7656.8	1692.2	1707.4	1897.1	2231.0	2640.8	2580.1	2405.6	2511.8	2473.9
77.5°	8248.7	3794.2	1426.6	1457.0	1608.8	1965.4	2299.3	2200.7	2018.5	2041.3	2026.1
80°	3202.3	1798.5	1161.0	1199.0	1297.6	1570.8	1904.7	1813.7	1654.3	1623.9	1608.8
82.5°	1540.5	1001.7	895.4	910.6	948.6	1252.1	1639.1	1525.3	1312.8	1176.2	1176.2
85°	774.0	622.3	629.8	576.7	629.8	849.9	1107.9	925.8	766.4	683.0	698.1
87.5°	311.1	311.1	311.1	265.6	280.8	402.2	516.0	349.1	318.7	189.7	189.7
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)