

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: P977432

Luminaire Tested: **EPH-VN-08-E-730-U-T2**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977432
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-730-U-T2
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2
distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61416.4 lumens
Efficiency: N/A
Efficacy: 98.0 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

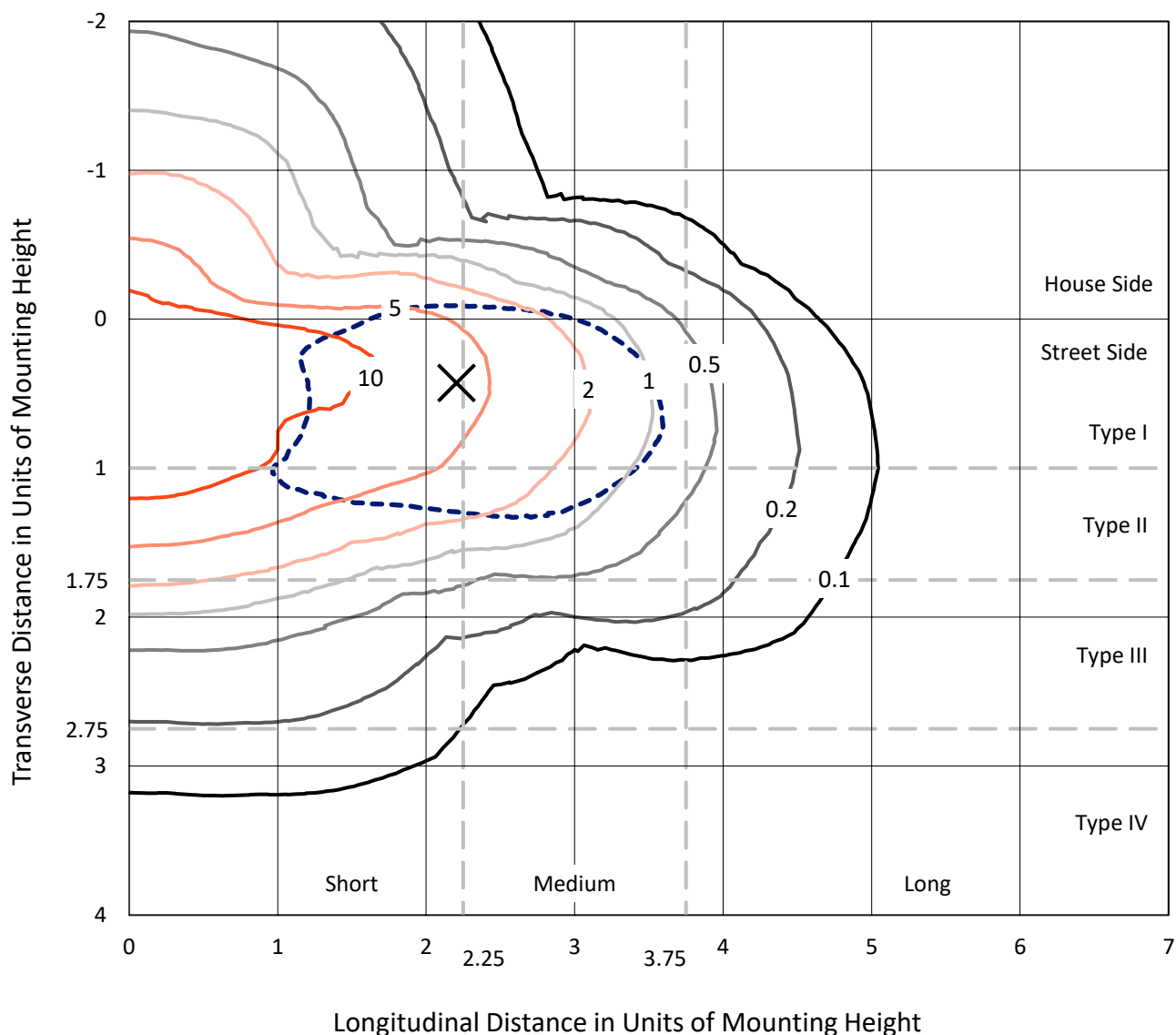
REPORT NUMBER: P977432

CATALOG NUMBER: EPH-VN-08-E-730-U-T2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

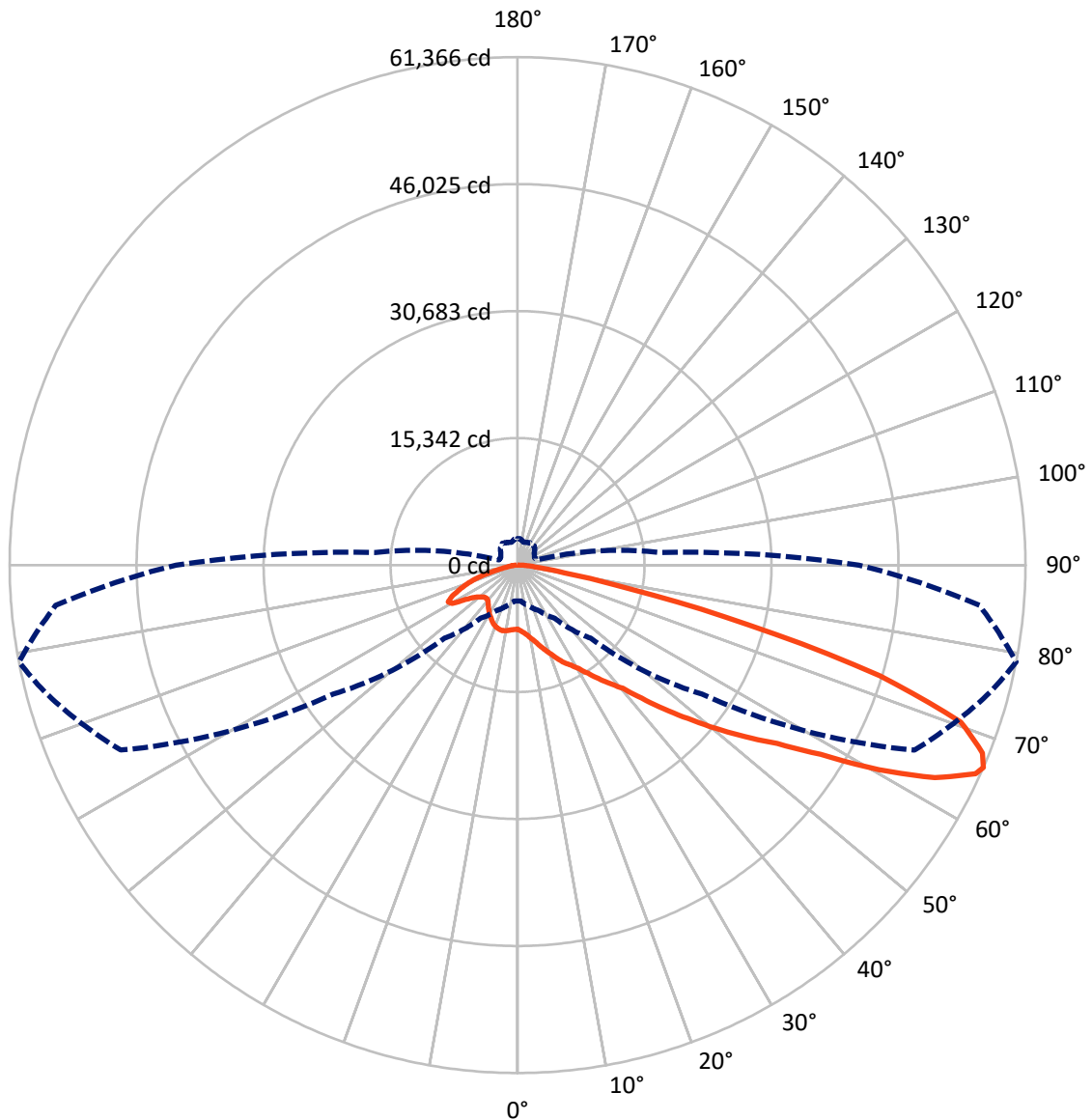


Based on 25 foot mounting height. Maximum calculated value = 15.7 fc

Type II - Short - N/A

REPORT NUMBER: P977432
CATALOG NUMBER: EPH-VN-08-E-730-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P977432

CATALOG NUMBER: EPH-VN-08-E-730-U-T2

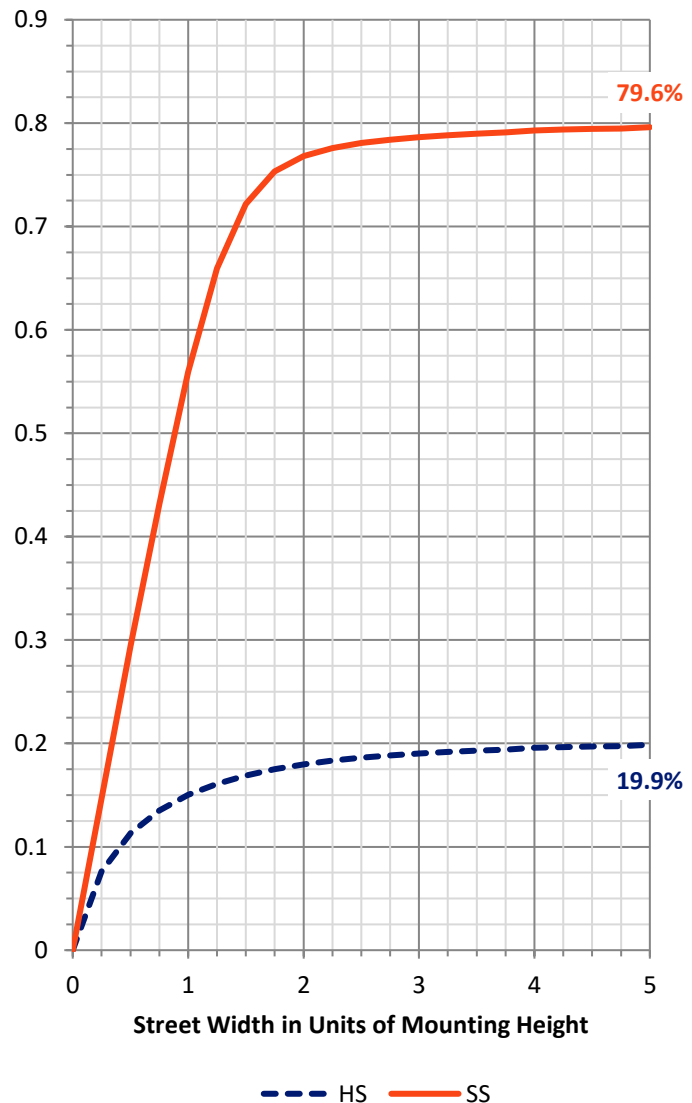
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12402.2	0.0	12402.2
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	49014.2	0.0	49014.2
	% Fixture	79.8	0.0	79.8
Total	Lumens	61416.4	0.0	61416.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	762.6	1.2
10°-20°	2354.8	3.8
20°-30°	4042.0	6.6
30°-40°	6244.1	10.2
40°-50°	10001.5	16.3
50°-60°	14933.0	24.3
60°-70°	15343.6	25.0
70°-80°	6801.6	11.1
80°-90°	933.2	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°	61416.4	100.0
0°-180°	61416.4	100.0

Coefficient of Utilization



REPORT NUMBER: P977432

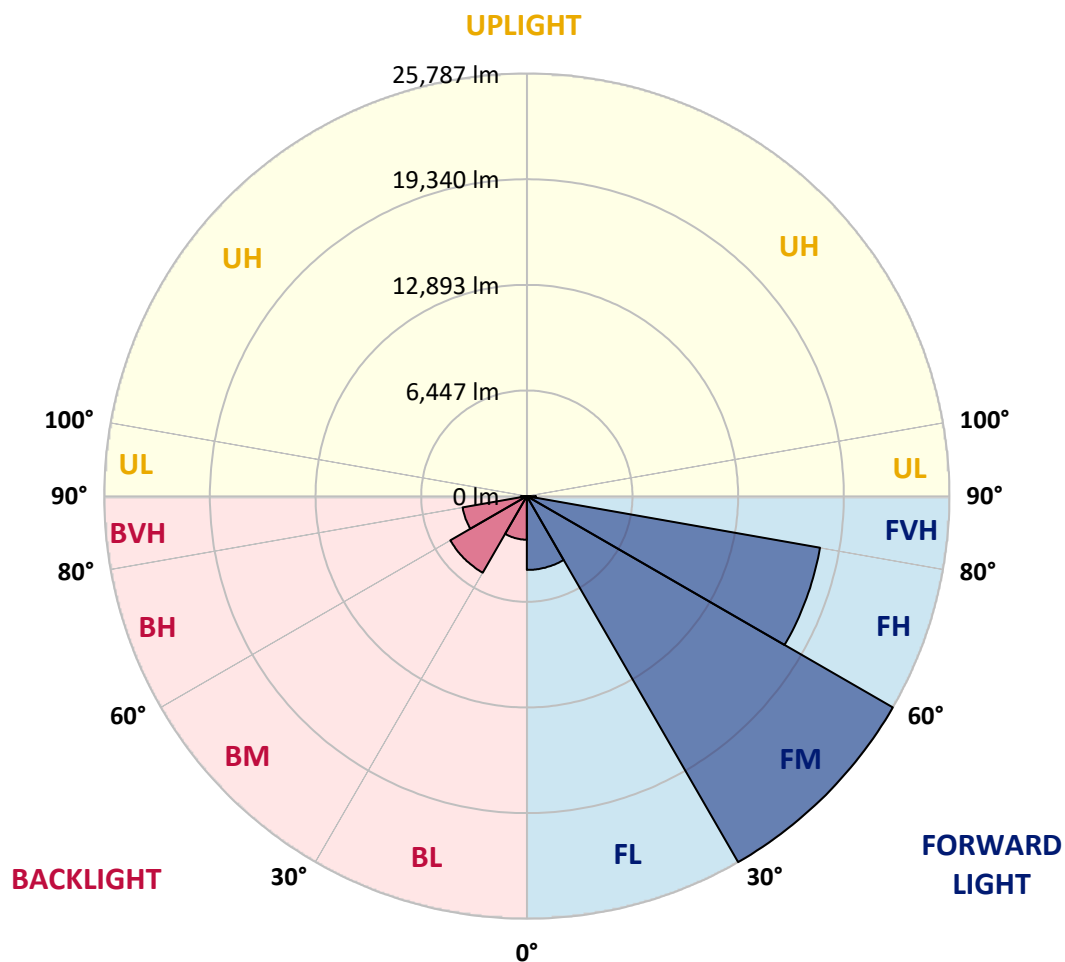
CATALOG NUMBER: EPH-VN-08-E-730-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4502.2	7.3			
FM	(30°-60°)	25786.7	42.0			
FH	(60°-80°)	18165.6	29.6			G5
FVH	(80°-90°)	559.7	0.9			G4/750
BL	(0°-30°)	2657.1	4.3	B4/5000		
BM	(30°-60°)	5391.9	8.8	B4/8500		
BH	(60°-80°)	3979.6	6.5	B4/5000		G4/5000
BVH	(80°-90°)	373.5	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





REPORT NUMBER: P977432

CATALOG NUMBER: EPH-VN-08-E-730-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7755.2	7755.2	7755.2	7755.2	7755.2	7755.2	7755.2	7755.2	7755.2	7755.2	7755.2
2.5°	8248.3	8255.1	8255.1	8228.1	8234.8	8255.1	8180.8	8018.6	8018.6	7991.6	7944.3
5°	8755.0	8721.2	8673.9	8680.7	8653.7	8653.7	8572.6	8417.2	8282.1	8228.1	8086.2
7.5°	8822.5	8856.3	8849.6	8930.6	8971.2	8971.2	9011.7	8883.3	8680.7	8552.3	8410.5
10°	8957.6	8869.8	8863.1	9052.2	9113.0	9254.9	9417.0	9349.5	9180.6	8998.2	8809.0
12.5°	9038.7	9092.8	9092.8	9187.3	9329.2	9538.6	9822.3	9950.7	9687.2	9498.1	9207.6
15°	9160.3	9086.0	9302.2	9383.2	9653.5	9802.1	10207.4	10538.4	10362.8	10133.1	9673.7
17.5°	9214.4	9167.1	9288.7	9437.3	9896.6	10119.6	10612.7	11072.1	10923.5	10774.8	10302.0
20°	9491.3	9484.6	9538.6	9660.2	9991.2	10430.3	11045.1	11680.1	11734.1	11463.9	10822.1
22.5°	10166.9	10079.0	10079.0	10031.8	10173.6	10626.2	11457.1	12335.3	12578.5	12261.0	11409.9
25°	10788.4	10910.0	10835.6	10619.5	10565.4	10801.9	11754.4	13031.1	13355.4	13058.2	12207.0
27.5°	11585.5	11626.0	11754.4	11463.9	11092.3	11166.7	12078.6	13423.0	14091.7	13693.2	12659.6
30°	12733.9	12659.6	12632.6	12308.3	11821.9	11720.6	12450.2	13997.2	15057.8	14497.1	13193.3
32.5°	13510.8	13693.2	13686.4	13240.6	12652.8	12429.9	12909.5	14537.6	16091.3	15571.2	14179.6
35°	15051.0	15240.2	15091.5	14436.3	13747.2	13301.4	13571.6	15240.2	17273.5	16868.2	15017.2
37.5°	17016.8	17462.7	17145.2	15936.0	14963.2	14476.8	14490.3	16003.5	18482.7	18151.7	15915.7
40°	18374.7	18975.9	18536.8	17401.9	16368.3	15908.9	15726.5	16908.7	19928.4	19577.1	17320.8
42.5°	20056.7	20556.6	20327.0	19205.6	17996.4	17604.5	17239.8	18421.9	22137.4	21975.3	19124.5
45°	21894.2	22130.7	22056.3	21347.0	20002.7	19867.6	19063.7	20414.8	24738.2	24805.8	21380.8
47.5°	23603.3	23731.7	23873.5	23360.1	22522.5	22637.3	21164.6	22549.5	27264.7	27710.6	23893.8
50°	24042.4	24481.5	24812.5	25157.1	25339.5	26116.3	23481.7	25170.6	30169.6	31034.3	26690.5
52.5°	23596.6	23562.8	24569.3	25650.2	27474.2	29102.2	26636.5	28426.7	32736.6	34445.7	29250.8
55°	21570.0	21502.4	23123.7	24555.8	28115.9	30764.0	31142.3	32763.6	35837.3	38059.9	32716.3
57.5°	18023.4	17604.5	19374.5	21725.3	26724.3	30946.4	35668.5	39201.5	40606.6	43139.9	38005.8
60°	12112.4	11936.8	13632.4	16435.9	21698.3	28359.1	38377.4	47260.7	47328.3	50179.0	46213.6
62.5°	7457.9	7491.7	8579.3	10680.3	15192.9	22481.9	37208.7	53698.6	53712.1	56569.6	52969.0
65°	4877.4	4897.7	5775.9	6937.8	9491.3	15246.9	30770.8	54205.2	58150.4	60805.3	56063.0
66°	4343.7	4350.5	5107.1	6052.8	7863.3	12477.2	27176.9	52887.9	59150.2	61366.0	56022.4
67.5°	3661.4	3749.2	4357.2	5086.8	6133.9	8964.4	21563.2	49077.9	58636.8	60582.3	54752.4
70°	2864.3	2911.6	3391.2	4134.3	4600.4	5188.1	12815.0	40005.4	53671.6	56826.3	50131.7
72.5°	2296.8	2337.4	2702.2	3357.4	3735.7	3418.2	6978.3	29027.9	42396.8	45761.0	39431.2
75°	1938.8	1945.6	2121.2	2641.4	3073.7	2567.0	3715.5	18631.4	27204.0	28771.2	24157.3
77.5°	1567.3	1594.3	1715.9	2013.1	2472.5	2019.9	2215.8	10437.1	13659.4	13774.2	11166.7
80°	1276.8	1290.3	1364.6	1465.9	1884.8	1492.9	1499.7	5093.6	5856.9	5721.8	4539.6
82.5°	1006.6	1020.1	1107.9	1087.6	1384.9	1067.4	932.2	2452.2	2695.4	2641.4	2087.4
85°	567.5	567.5	871.4	871.4	878.2	675.5	567.5	1155.2	1425.4	1330.8	979.5
87.5°	182.4	189.2	263.5	277.0	439.1	304.0	277.0	432.3	675.5	594.5	351.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P977432

CATALOG NUMBER: EPH-VN-08-E-730-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7755.2	7755.2	7755.2	7755.2	7755.2	7755.2	7755.2	7755.2	7755.2	7755.2	7755.2
2.5°	7917.3	7809.2	7761.9	7606.6	7566.0	7464.7	7417.4	7356.6	7336.4	7248.5	7329.6
5°	7978.1	7944.3	7755.2	7559.3	7410.7	7343.1	7241.8	7106.7	7093.2	6971.6	6958.1
7.5°	8234.8	8120.0	7789.0	7579.5	7282.3	7113.4	6890.5	6822.9	6735.1	6694.6	6782.4
10°	8633.4	8342.9	7849.8	7322.8	6958.1	6755.4	6593.3	6546.0	6552.7	6525.7	6485.2
12.5°	8917.1	8640.1	7748.4	7106.7	6633.8	6437.9	6424.4	6471.7	6546.0	6512.2	6559.5
15°	9322.4	8802.3	7674.1	6748.6	6370.3	6316.3	6309.5	6451.4	6444.6	6444.6	6437.9
17.5°	9700.7	8964.4	7403.9	6437.9	6093.4	6133.9	6181.2	6174.4	6242.0	6269.0	6316.3
20°	10180.4	9153.6	7025.6	6127.1	5883.9	5870.4	5863.7	5870.4	5938.0	5978.5	5944.7
22.5°	10599.2	9194.1	6708.1	5829.9	5634.0	5580.0	5492.1	5580.0	5546.2	5559.7	5600.2
25°	10964.0	9200.8	6255.5	5607.0	5384.0	5262.4	5194.9	5188.1	5127.3	5120.6	5120.6
27.5°	11268.0	8971.2	5856.9	5296.2	5086.8	4972.0	4965.2	4890.9	4735.5	4634.2	4647.7
30°	11504.4	8795.5	5580.0	5026.0	4823.3	4803.1	4742.3	4573.4	4370.7	4242.4	4242.4
32.5°	11923.3	8444.2	5201.6	4749.0	4647.7	4620.7	4478.8	4330.2	4141.1	4019.5	3999.2
35°	12234.0	8120.0	4951.7	4512.6	4465.3	4411.3	4289.7	4127.5	4073.5	4046.5	4066.7
37.5°	12585.3	7755.2	4647.7	4309.9	4357.2	4255.9	4114.0	4039.7	4228.9	4181.6	4201.9
40°	13146.0	7498.5	4350.5	4188.3	4235.6	4120.8	3938.4	3911.4	4147.8	3978.9	3938.4
42.5°	14172.8	7491.7	4168.1	4005.9	4039.7	3951.9	3789.8	3776.3	3870.8	3668.2	3607.4
45°	15449.6	7728.2	4033.0	3870.8	3843.8	3830.3	3776.3	3715.5	3634.4	3370.9	3303.4
47.5°	16976.3	8113.2	4005.9	3668.2	3702.0	3816.8	3749.2	3593.9	3384.4	3215.6	3181.8
50°	18827.3	8910.4	3938.4	3519.6	3580.4	3762.8	3708.7	3492.5	3303.4	3195.3	3175.0
52.5°	20874.2	9916.9	3850.6	3289.9	3425.0	3715.5	3742.5	3539.8	3262.9	3168.3	3154.8
55°	23285.8	11403.1	3749.2	3039.9	3242.6	3668.2	3742.5	3404.7	3208.8	3208.8	3195.3
57.5°	28048.4	14078.2	3539.8	2810.2	3080.5	3580.4	3634.4	3411.5	3215.6	3215.6	3188.5
60°	35033.4	18253.1	3141.3	2634.6	2925.1	3458.8	3553.3	3310.1	3141.3	3181.8	3175.0
62.5°	40498.6	19523.1	2803.5	2465.7	2769.7	3235.8	3445.2	3202.1	3053.4	3202.1	3215.6
65°	41667.2	18239.5	2459.0	2283.3	2553.5	3019.7	3289.9	3046.7	2925.1	3215.6	3229.1
66°	41248.4	17239.8	2337.4	2229.3	2459.0	2911.6	3195.3	2992.6	2857.5	3202.1	3208.8
67.5°	39383.9	15740.1	2202.3	2114.4	2330.6	2756.2	3087.2	2918.3	2749.4	3161.5	3100.7
70°	35330.7	13348.6	1972.6	1911.8	2148.2	2499.5	2837.3	2729.2	2580.6	2911.6	2803.5
72.5°	27210.7	10666.8	1729.4	1736.1	1938.8	2236.0	2587.3	2513.0	2384.7	2553.5	2486.0
75°	16571.0	6816.2	1506.5	1520.0	1688.8	1986.1	2350.9	2296.8	2141.5	2236.0	2202.3
77.5°	7343.1	3377.7	1270.0	1297.0	1432.1	1749.6	2046.9	1959.1	1796.9	1817.2	1803.7
80°	2850.8	1601.0	1033.6	1067.4	1155.2	1398.4	1695.6	1614.5	1472.7	1445.7	1432.1
82.5°	1371.3	891.7	797.1	810.6	844.4	1114.6	1459.2	1357.8	1168.7	1047.1	1047.1
85°	689.0	553.9	560.7	513.4	560.7	756.6	986.3	824.2	682.3	608.0	621.5
87.5°	277.0	277.0	277.0	236.4	249.9	358.0	459.4	310.7	283.7	168.9	168.9
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)