

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: P977458

Luminaire Tested: **EPH-VN-08-E-735-U-T4W**

Issue Date: 03/26/2025



Test Information

Test Method: LM-79-08
Report Number: P977458
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-735-U-T4W
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

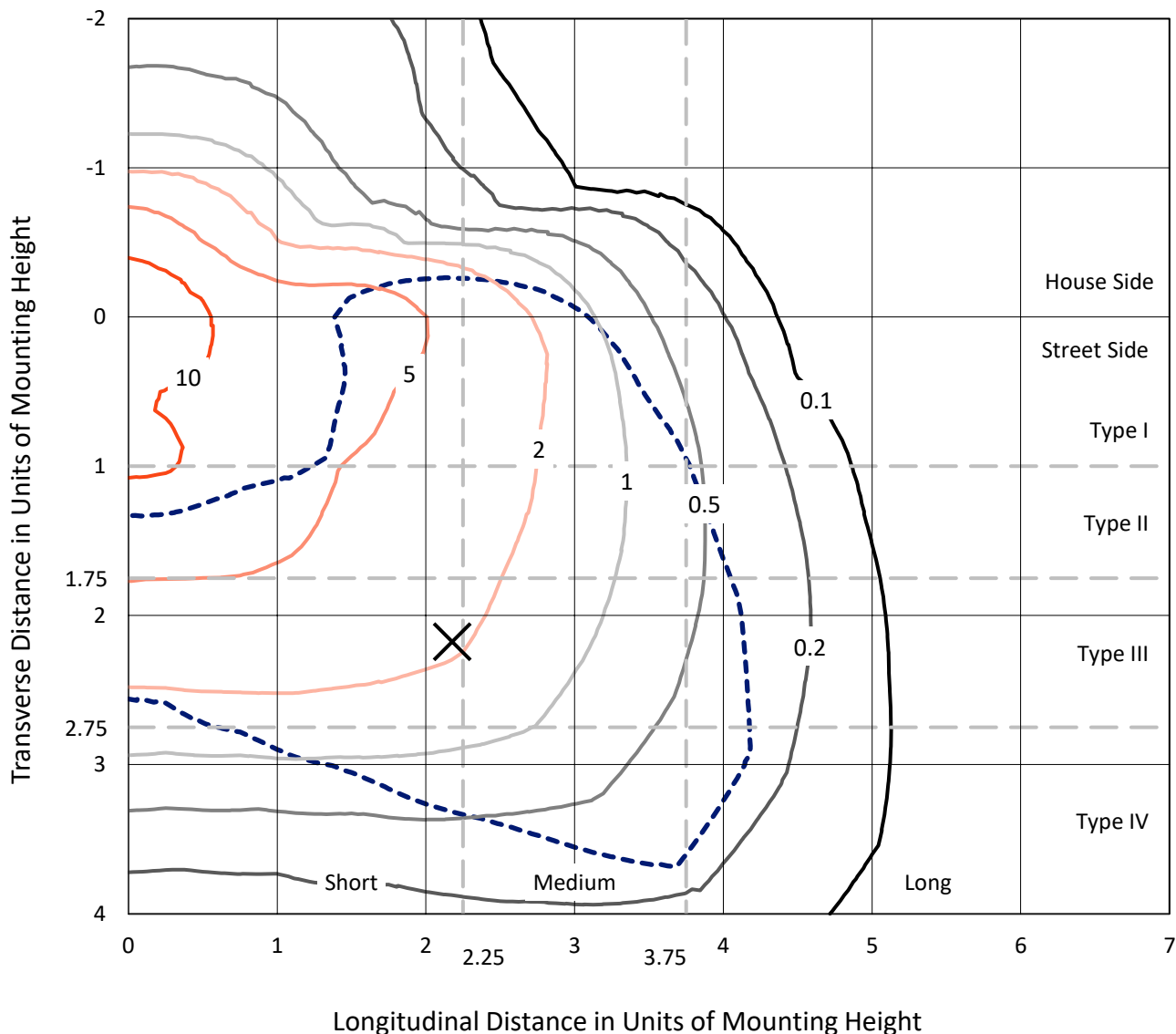
Lumens per Lamp: N/A
Luminaire Lumens: 67320.4 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

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

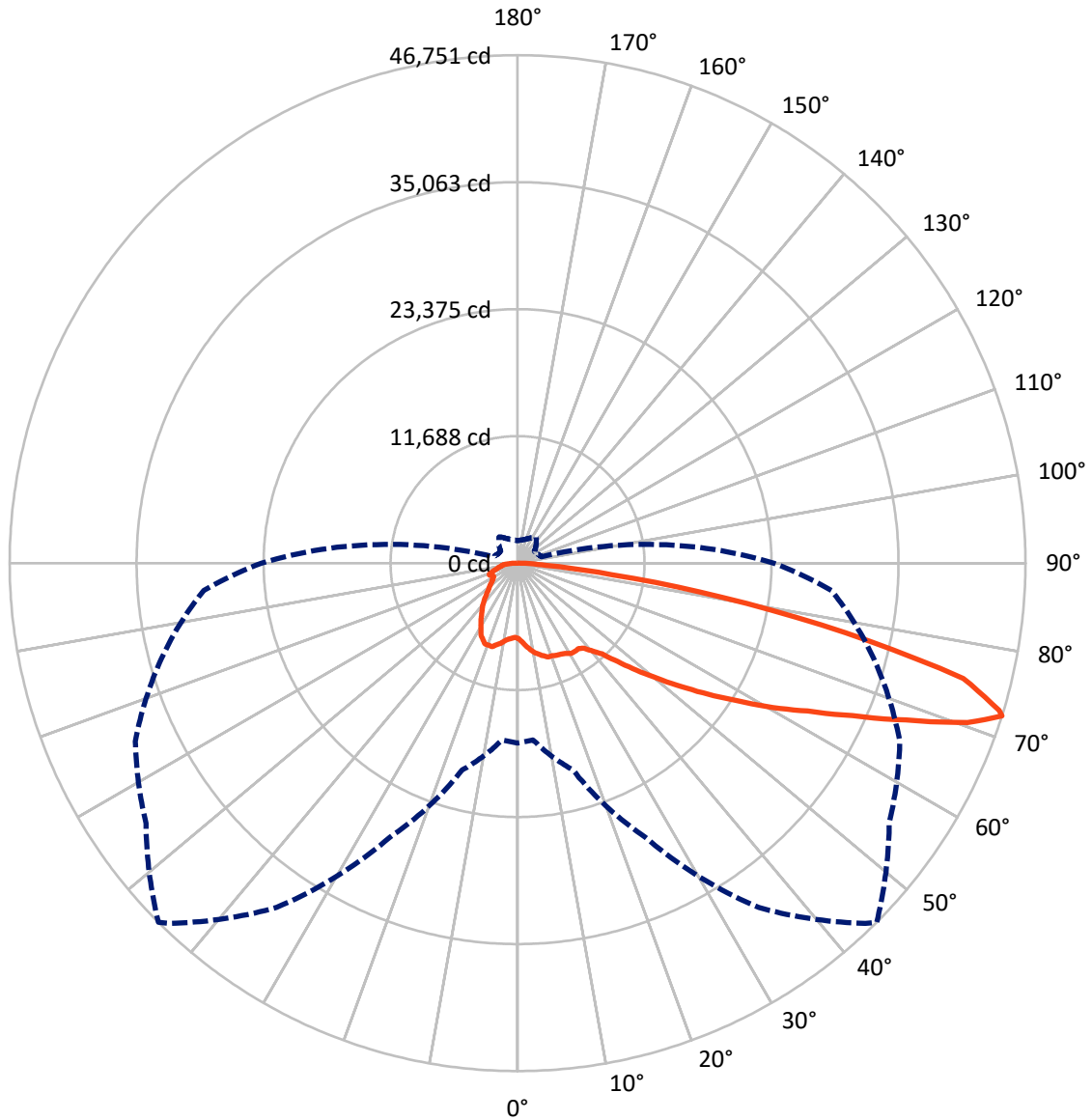
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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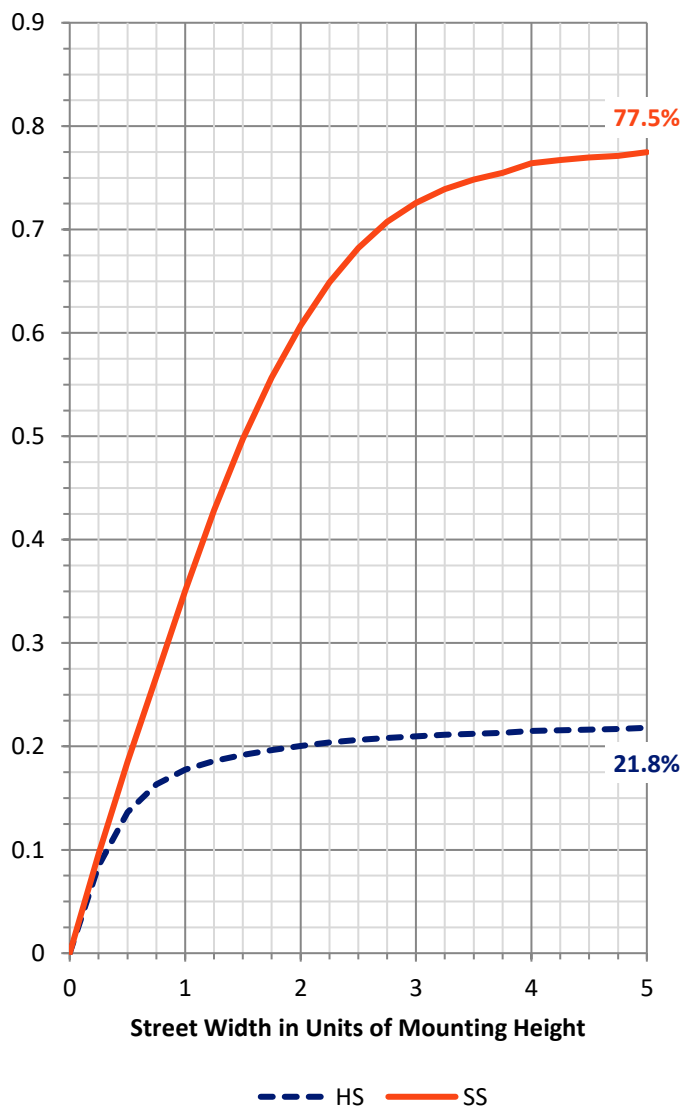
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14985.9	0.0	14985.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	52334.5	0.0	52334.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	67320.4	0.0	67320.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	709.4	1.1
10°-20°	2360.3	3.5
20°-30°	3985.8	5.9
30°-40°	5515.8	8.2
40°-50°	7889.8	11.7
50°-60°	12725.3	18.9
60°-70°	18768.0	27.9
70°-80°	13628.8	20.2
80°-90°	1737.3	2.6
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°	67320.4	100.0
0°-180°	67320.4	100.0



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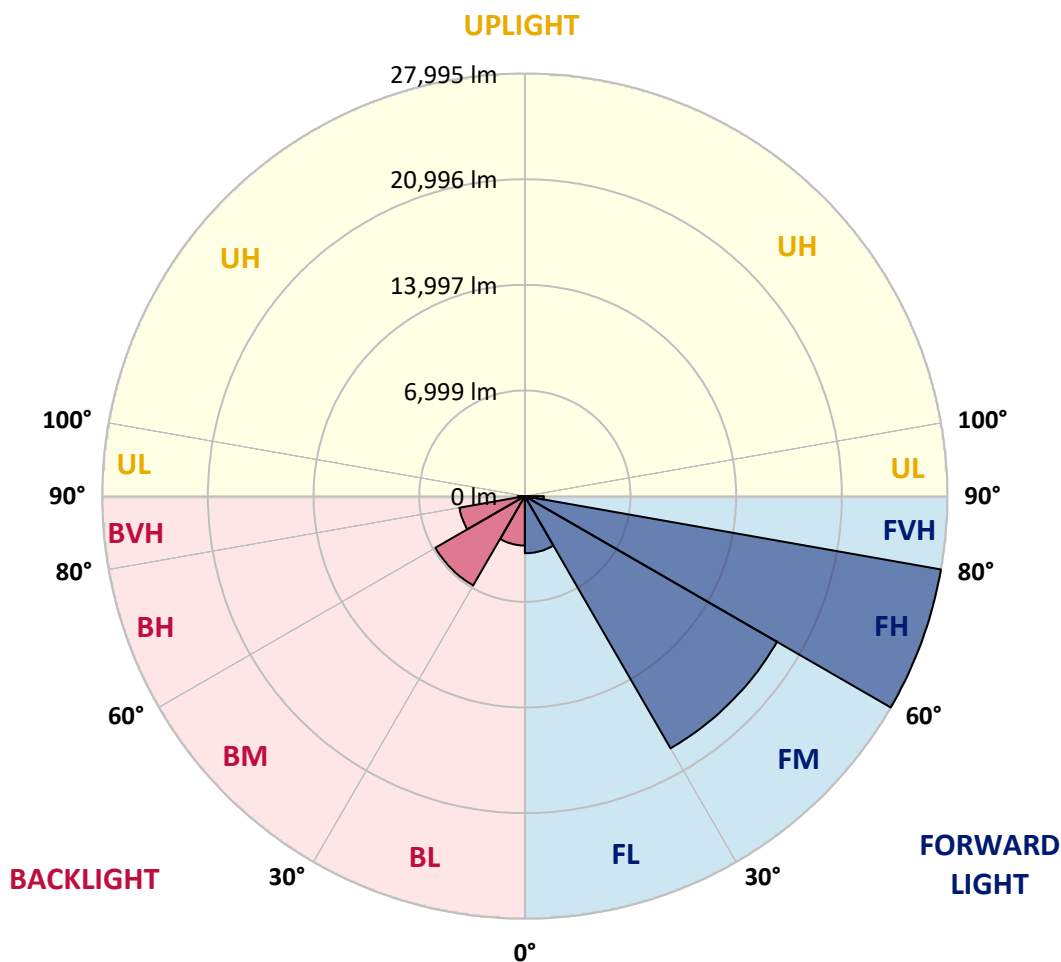
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3783.4	5.6			
FM (30°-60°)	19291.7	28.7			
FH (60°-80°)	27994.8	41.6			G5
FVH (80°-90°)	1264.5	1.9			G5
BL (0°-30°)	3272.1	4.9	B4/5000		
BM (30°-60°)	6839.1	10.2	B4/8500		
BH (60°-80°)	4401.9	6.5	B4/5000		G4/5000
BVH (80°-90°)	472.8	0.7			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	6932.8	6932.8	6932.8	6932.8	6932.8	6932.8	6932.8	6932.8	6932.8	6932.8	6932.8
2.5°	7303.0	7346.6	7303.0	7295.8	7223.2	7172.3	7215.9	7150.6	7078.0	7048.9	6983.6
5°	7970.9	7978.1	7898.3	7905.5	7753.1	7593.4	7622.4	7426.4	7215.9	7136.0	7005.4
7.5°	8653.3	8573.4	8457.3	8421.0	8181.4	8007.2	7985.4	7811.2	7484.5	7303.0	7121.5
10°	9096.1	9125.1	8936.4	8776.7	8573.4	8362.9	8355.6	8029.0	7840.2	7571.6	7339.3
12.5°	9488.1	9495.4	9335.7	9081.6	8827.5	8566.2	8602.5	8457.3	8137.9	7883.8	7651.5
15°	9793.0	9749.5	9575.2	9342.9	9074.3	8871.1	8849.3	8725.9	8457.3	8246.7	7862.0
17.5°	9880.1	9858.3	9684.1	9437.3	9176.0	9023.5	9081.6	8878.3	8769.4	8580.7	8210.4
20°	9713.2	9662.3	9633.3	9357.4	9168.7	9154.2	9103.4	9146.9	8965.4	8791.2	8522.6
22.5°	9408.3	9386.5	9372.0	9154.2	9067.1	9132.4	9219.5	9284.8	9255.8	9088.8	8783.9
25°	9096.1	9197.7	9103.4	9001.7	9125.1	9292.1	9270.3	9480.9	9480.9	9430.0	9176.0
27.5°	9313.9	9248.5	9176.0	9125.1	9168.7	9430.0	9415.5	9669.6	9764.0	9669.6	9379.2
30°	9858.3	9793.0	9582.5	9357.4	9299.4	9582.5	9655.1	9880.1	9923.7	9691.4	9444.6
32.5°	10881.9	10845.6	10511.7	9851.1	9495.4	9655.1	9691.4	9945.5	9909.2	9764.0	9662.3
35°	12399.2	12275.7	11811.1	10693.2	9909.2	9749.5	9655.1	9858.3	9996.3	9923.7	9829.3
37.5°	14061.6	13923.6	13350.1	11934.5	10656.9	10003.5	9930.9	10097.9	10257.6	10221.3	10025.3
40°	15651.4	15651.4	15136.0	13488.1	11767.6	10620.6	10635.1	10446.4	10591.5	10526.2	10562.5
42.5°	17219.4	17161.4	16950.8	15310.2	12958.1	11651.4	11419.1	10947.3	11208.6	11186.8	11237.6
45°	18809.3	18765.7	18707.6	17008.9	14664.1	13045.2	12921.8	12072.5	12312.0	12210.4	12428.2
47.5°	20079.7	20130.5	20130.5	18903.6	16486.2	14903.7	14722.2	13379.2	13836.5	13887.3	13938.2
50°	21161.3	21183.1	21161.3	20711.2	18518.9	17030.7	16660.5	15295.7	15753.0	16152.3	16616.9
52.5°	22656.8	22685.8	22584.2	22409.9	21277.5	19266.6	18852.8	17335.6	18272.1	18693.1	19527.9
55°	24500.7	24282.9	24094.1	24224.8	23927.2	21727.6	21299.2	19440.8	20849.2	21408.1	23077.8
57.5°	24841.9	25030.6	25509.7	26547.8	26976.1	24123.2	23876.4	22025.2	23760.2	24246.6	27034.2
60°	26046.9	25734.8	26910.8	29161.2	29640.4	27244.7	26990.7	24856.4	26656.7	27164.9	30685.7
62.5°	26838.2	26823.7	28566.0	31237.4	32326.4	30482.5	29967.0	28536.9	29785.6	30279.2	34663.9
65°	26605.9	26816.4	29909.0	32457.0	34569.5	34163.0	33865.4	31702.1	33349.9	33306.4	37255.5
67.5°	24486.1	25081.4	29059.6	33335.4	37908.9	38649.4	38555.0	36152.1	36246.5	35324.5	38409.8
70°	21546.1	21342.8	25466.2	32420.7	39578.6	43970.5	43948.8	39462.4	38852.6	35767.3	35099.5
72°	16551.6	16326.5	19716.7	27840.0	38700.2	46097.6	46750.9	41756.4	38823.6	33930.7	28994.3
72.5°	15027.1	14831.1	18206.7	26206.6	37727.4	46649.3	46344.4	41843.5	38518.7	33066.8	27085.0
75°	6918.3	6693.2	9096.1	16043.4	29429.8	41335.4	42373.5	39157.5	33640.3	26322.8	16224.9
77.5°	2061.7	1996.4	2925.6	6475.4	17103.3	30453.4	30852.7	29546.0	23484.3	14417.3	6018.1
80°	1147.0	1154.3	1510.0	2424.7	7520.8	17604.2	19041.6	18250.3	11520.8	4762.2	2003.6
82.5°	638.8	675.1	943.7	1437.4	3455.5	8079.8	8696.8	8384.7	4166.9	2235.9	1096.2
85°	333.9	348.5	493.6	769.5	1960.1	2555.3	2627.9	2816.7	2163.3	1524.5	588.0
87.5°	130.7	130.7	181.5	319.4	725.9	791.3	711.4	863.9	1241.4	987.3	290.4
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°	6932.8	6932.8	6932.8	6932.8	6932.8	6932.8	6932.8	6932.8	6932.8	6932.8	6932.8
2.5°	7041.7	6983.6	6976.3	6882.0	6911.0	6831.1	6838.4	6823.9	6831.1	6816.6	6780.3
5°	7005.4	6961.8	6838.4	6918.3	6845.7	6947.3	7027.2	6998.1	7019.9	7012.6	7019.9
7.5°	7056.2	6998.1	6983.6	6940.0	7005.4	7048.9	7114.3	7295.8	7281.2	7303.0	7346.6
10°	7208.6	7143.3	7099.7	7165.1	7128.8	7266.7	7339.3	7433.7	7600.7	7607.9	7520.8
12.5°	7506.3	7462.7	7375.6	7390.1	7513.5	7557.1	7600.7	7658.7	7767.6	7745.8	7825.7
15°	7847.5	7753.1	7702.3	7687.8	7716.8	7767.6	7760.4	7818.4	7876.5	7927.3	7905.5
17.5°	8094.3	7970.9	7985.4	8058.0	8050.7	8036.2	7941.8	7912.8	7941.8	7970.9	7956.4
20°	8348.4	8362.9	8254.0	8188.7	8159.6	8014.4	7941.8	7854.7	7767.6	7811.2	7876.5
22.5°	8667.8	8602.5	8442.7	8246.7	8101.6	8014.4	7789.4	7636.9	7636.9	7680.5	7658.7
25°	9030.8	8892.8	8617.0	8261.3	8079.8	7709.5	7549.8	7528.1	7470.0	7535.3	7564.4
27.5°	9313.9	9190.5	8813.0	8210.4	7709.5	7411.9	7317.5	7288.5	7382.9	7390.1	7506.3
30°	9430.0	9393.7	8842.0	8079.8	7332.1	6852.9	6794.9	6925.5	7027.2	7179.6	7186.9
32.5°	9582.5	9597.0	8885.6	7774.9	6838.4	6359.3	6272.2	6431.9	6722.3	6845.7	6940.0
35°	9836.6	9909.2	8849.3	7397.4	6315.7	5858.4	5843.9	5887.4	6170.5	6388.3	6511.7
37.5°	10279.4	10264.9	8842.0	6947.3	5901.9	5422.8	5306.7	5321.2	5509.9	5691.4	5669.6
40°	10874.7	10816.6	8820.2	6359.3	5364.7	5052.6	4856.6	4784.0	4769.5	4718.6	4733.2
42.5°	11687.7	11571.6	8813.0	5764.0	4878.4	4544.4	4406.5	4217.7	4079.8	3818.5	3833.0
45°	12820.2	12616.9	8624.2	5205.0	4399.2	4123.4	3912.8	3774.9	3477.3	3150.6	3150.6
47.5°	14569.7	13909.1	8631.5	4588.0	3934.6	3709.6	3564.4	3324.8	3005.4	2744.1	2715.0
50°	17146.8	15636.9	8384.7	4101.6	3557.1	3404.7	3252.2	2976.4	2671.5	2490.0	2511.8
52.5°	20471.7	18214.0	8377.4	3666.0	3259.5	3150.6	2983.6	2736.8	2511.8	2395.6	2352.1
55°	24435.3	21625.9	8638.8	3310.3	2954.6	2896.5	2823.9	2620.7	2402.9	2301.2	2294.0
57.5°	28493.4	24958.0	9059.8	3056.2	2693.3	2736.8	2686.0	2526.3	2352.1	2235.9	2221.4
60°	32101.3	27600.5	8210.4	2751.3	2461.0	2555.3	2627.9	2490.0	2395.6	2388.4	2337.5
62.5°	34823.6	28732.9	6243.1	2519.0	2337.5	2511.8	2707.8	2794.9	2751.3	2809.4	2816.7
65°	35818.2	28050.5	4297.6	2395.6	2243.2	2613.4	3049.0	3019.9	2765.9	2657.0	2715.0
67.5°	34424.3	25284.7	3186.9	2250.4	2177.8	2823.9	3245.0	2882.0	2497.3	2482.7	2439.2
70°	29604.1	21429.9	2598.9	2098.0	2068.9	2707.8	3157.9	2671.5	2352.1	2257.7	2214.1
72°	23586.0	16689.5	2279.5	1989.1	1894.7	2417.4	2954.6	2504.5	2228.7	2112.5	2061.7
72.5°	21531.6	15469.9	2235.9	1938.3	1858.4	2352.1	2853.0	2453.7	2199.6	2098.0	2018.1
75°	11811.1	7920.1	1967.3	1778.6	1568.0	2032.6	2642.4	2301.2	2076.2	1931.0	1916.5
77.5°	4392.0	3070.8	1698.7	1575.3	1357.5	1756.8	2402.9	2185.1	1887.5	1706.0	1669.7
80°	1684.2	1618.9	1386.6	1328.5	1139.7	1539.0	2214.1	1960.1	1604.3	1422.9	1364.8
82.5°	1023.6	943.7	1052.6	1038.1	871.1	1401.1	2083.5	1836.6	1422.9	1154.3	1118.0
85°	559.0	559.0	733.2	704.2	609.8	1118.0	1575.3	1219.6	900.2	740.5	755.0
87.5°	246.8	290.4	392.0	370.2	333.9	631.6	769.5	646.1	450.1	304.9	326.7
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)