

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: P977453

Luminaire Tested: **EPH-VN-08-E-735-U-T4FT**

Issue Date: 03/26/2025



Test Information

Test Method: LM-79-08
Report Number: P977453
Test Lab: INNOVATION CENTER(G2)
Issue Date: 03/26/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-E-735-U-T4FT
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

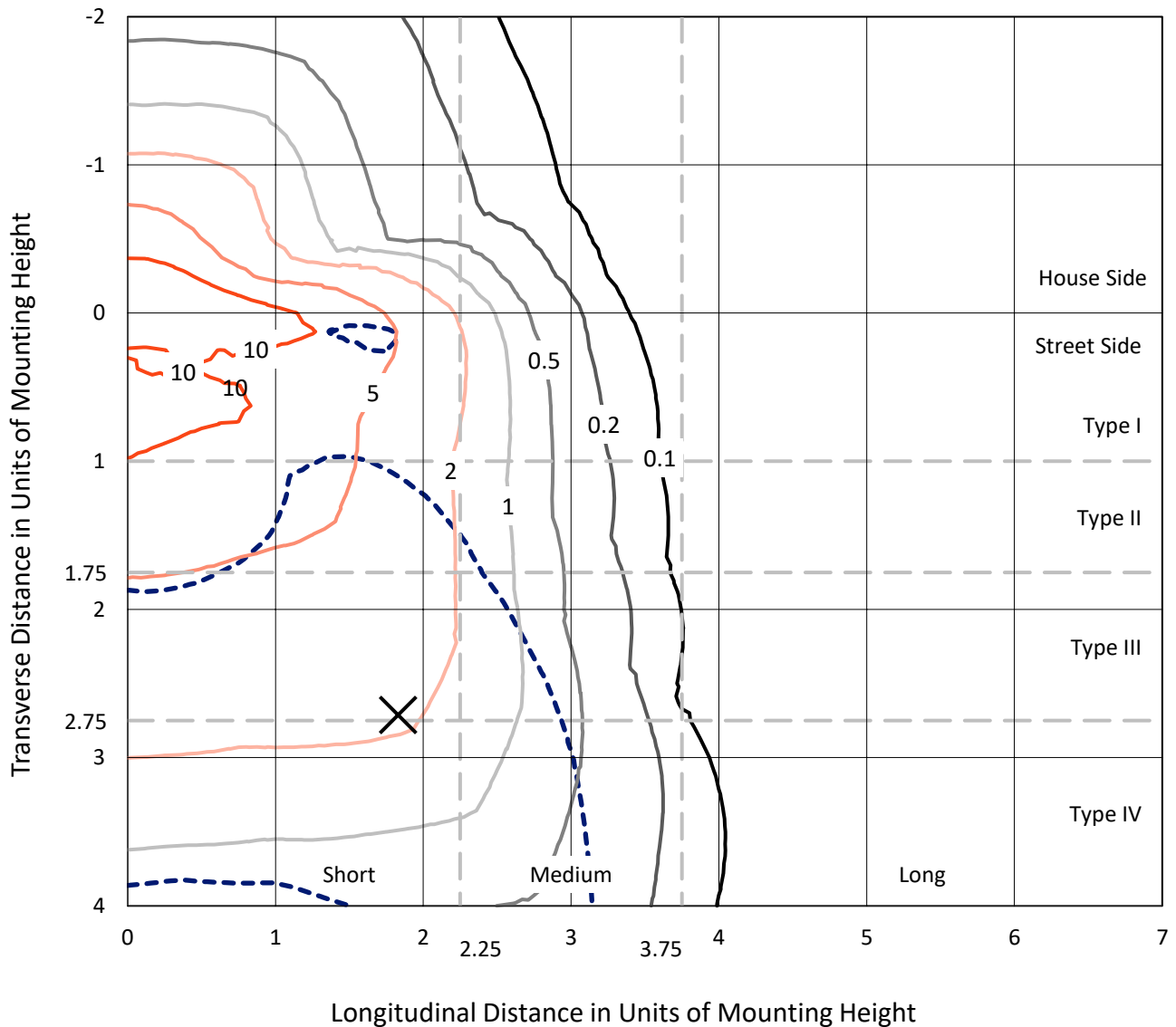
Lumens per Lamp: N/A
Luminaire Lumens: 68233.6 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

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

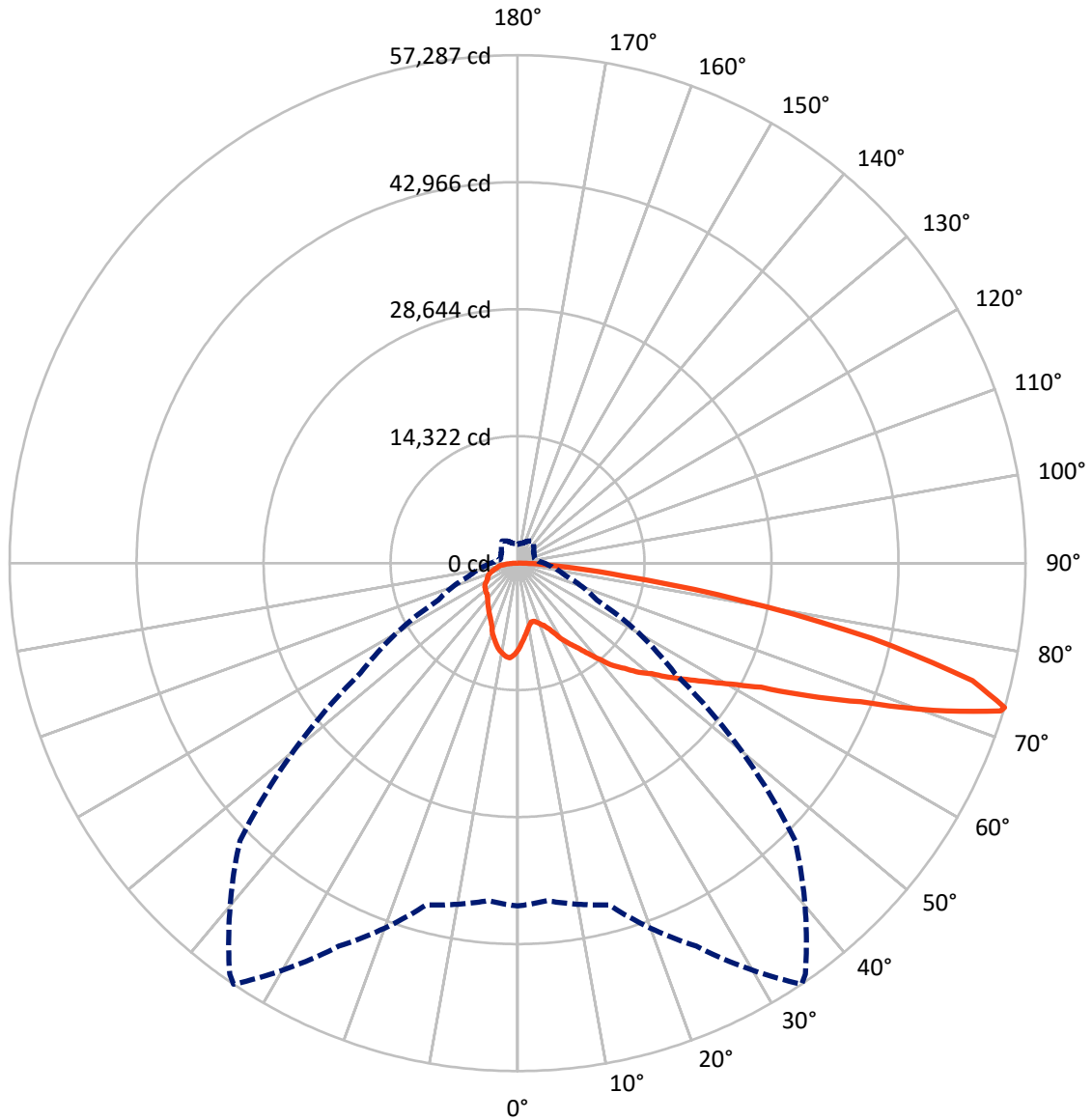
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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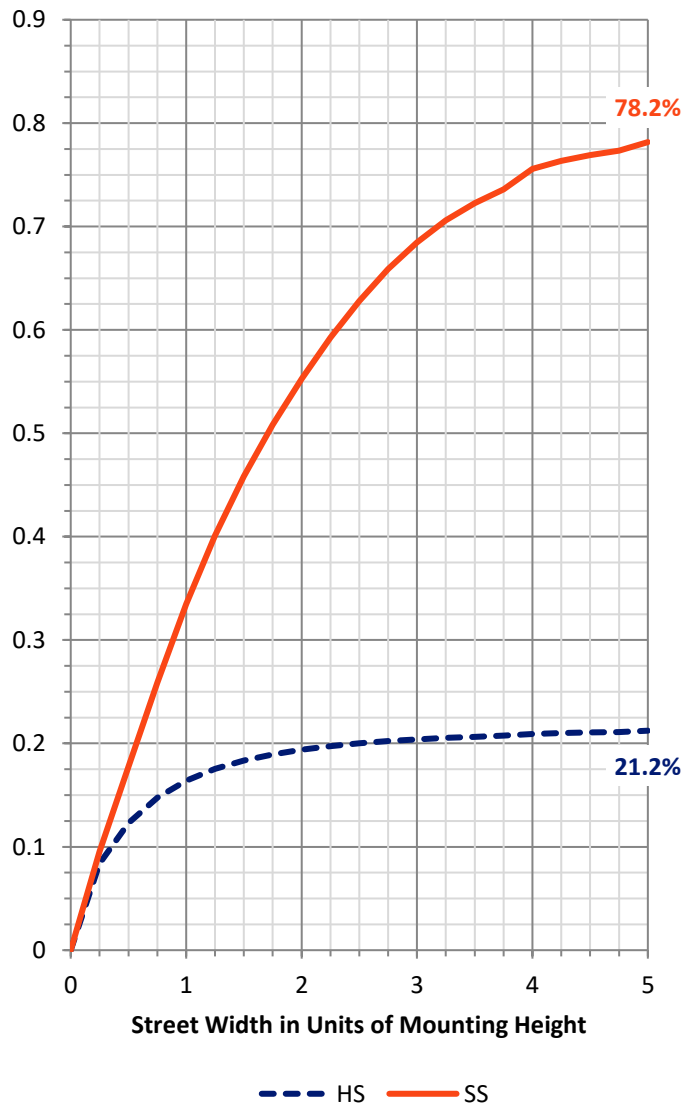
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14739.3	0.0	14739.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	53494.3	0.0	53494.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	68233.6	0.0	68233.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	902.9	1.3
10°-20°	2526.7	3.7
20°-30°	4158.7	6.1
30°-40°	6219.2	9.1
40°-50°	9219.7	13.5
50°-60°	13286.6	19.5
60°-70°	16955.5	24.8
70°-80°	13194.2	19.3
80°-90°	1770.1	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°	68233.6	100.0
0°-180°	68233.6	100.0



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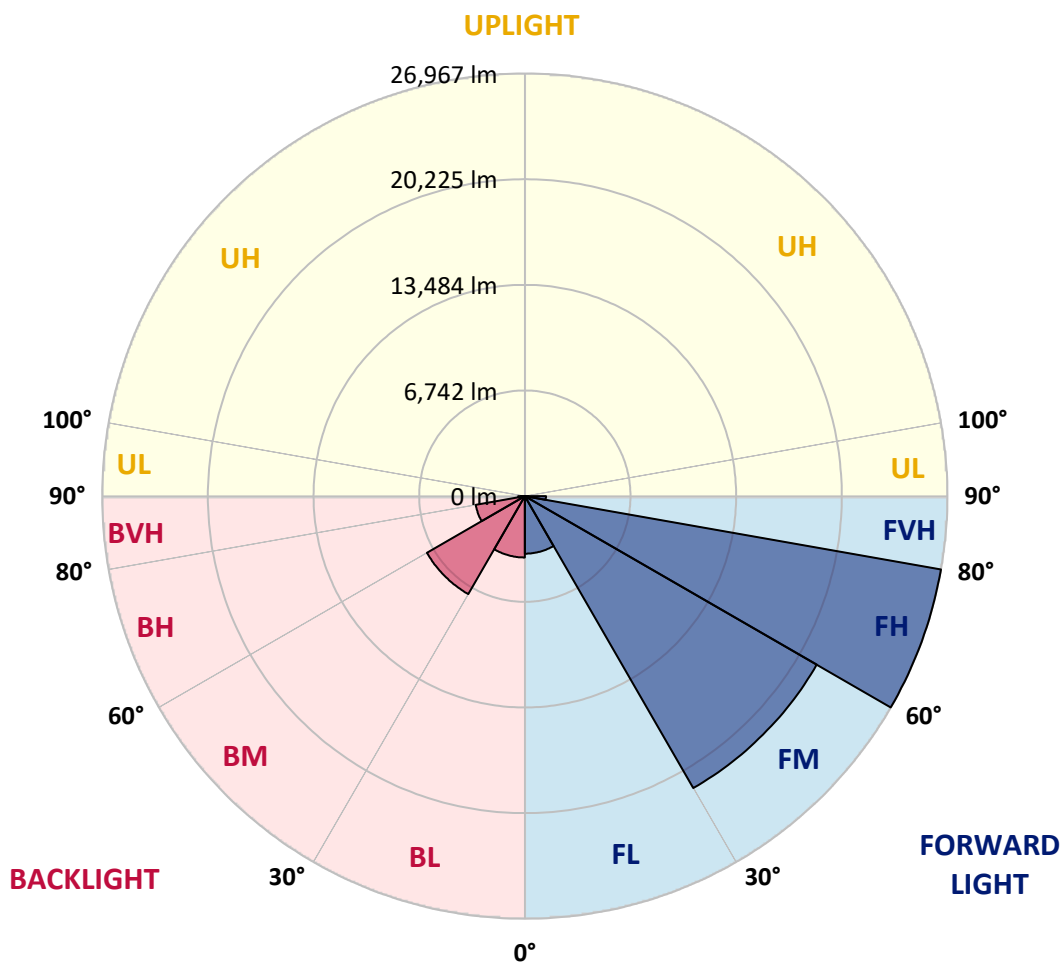
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3672.1	5.4			
FM (30°-60°)	21507.7	31.5			
FH (60°-80°)	26967.2	39.5			G5
FVH (80°-90°)	1347.3	2.0			G5
BL (0°-30°)	3916.1	5.7	B4/5000		
BM (30°-60°)	7217.9	10.6	B4/8500		
BH (60°-80°)	3182.5	4.7	B4/5000		G4/5000
BVH (80°-90°)	422.7	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	9782.4	9782.4	9782.4	9782.4	9782.4	9782.4	9782.4	9782.4	9782.4	9782.4	9782.4
2.5°	8765.2	8794.0	8887.8	8909.5	9010.4	8952.7	9075.4	9291.8	9414.4	9594.8	9811.2
5°	8072.6	7950.0	8007.7	8231.3	8346.7	8375.6	8505.5	8873.4	9104.2	9371.2	9775.1
7.5°	7257.4	7235.8	7351.2	7495.5	7726.3	7748.0	8036.5	8361.2	8837.3	9428.9	9905.0
10°	6701.9	6795.7	6860.6	7012.1	7170.8	7170.8	7538.8	8101.5	8642.5	9212.4	9933.9
12.5°	6673.1	6615.4	6629.8	6709.1	6824.6	6968.9	7315.1	7820.1	8505.5	9169.2	10056.5
15°	6766.9	6788.5	6658.6	6759.6	6802.9	6853.4	7235.8	7805.7	8418.9	9320.7	10265.7
17.5°	7264.6	7142.0	6940.0	6846.2	6997.7	6997.7	7257.4	7704.7	8433.3	9400.0	10568.7
20°	7654.2	7654.2	7322.3	7221.3	7329.6	7307.9	7488.3	7820.1	8505.5	9558.7	10907.8
22.5°	8310.7	8404.5	7856.2	7647.0	7639.8	7697.5	7856.2	8137.5	8707.5	9782.4	11232.4
25°	9255.7	9277.4	8642.5	8426.1	8195.3	8289.0	8317.9	8599.2	8887.8	10042.1	11600.3
27.5°	10309.0	10294.6	9710.2	9169.2	9017.7	9039.3	8880.6	9068.2	9154.7	10121.4	12127.0
30°	11477.7	11347.8	10907.8	10143.1	10020.4	9883.4	9537.1	9529.9	9710.2	10568.7	12855.6
32.5°	12242.4	12076.5	11773.5	11225.2	10886.1	10900.6	10352.3	10345.1	10186.4	11059.3	13490.4
35°	12992.6	12740.2	12660.8	12098.1	11759.0	11795.1	11355.0	11297.3	11008.8	11802.3	14536.5
37.5°	13894.4	13670.8	13793.4	13367.8	12949.4	12776.2	12574.2	12502.1	12127.0	12848.4	15964.9
40°	14890.0	14817.8	14738.5	14529.3	14276.8	14291.2	14074.8	14002.6	13447.1	14110.8	17335.6
42.5°	16231.8	15957.7	15546.5	15683.5	15813.4	15950.4	15878.3	15690.7	15113.6	15395.0	18865.0
45°	17479.8	17119.1	16361.6	16404.9	16938.8	17047.0	17919.9	17898.3	16736.8	17025.3	20603.6
47.5°	18323.9	18158.0	17703.5	17653.0	18417.7	18410.5	19983.1	19983.1	18446.5	18648.5	22472.0
50°	19579.2	19146.3	18951.5	19204.0	19593.6	19860.5	22089.7	22226.7	20127.4	20343.8	24917.6
52.5°	21050.8	20509.8	20019.2	20668.5	21361.0	21534.2	24174.6	24116.8	21418.8	22313.3	27781.6
55°	22270.0	21995.9	21656.8	22032.0	23164.6	23381.0	26266.6	25732.8	22710.1	23943.7	29159.5
57.5°	23691.2	23857.1	23929.3	23835.5	25184.5	25523.6	28654.5	27125.1	23821.1	25040.2	29967.5
60°	25833.8	25934.8	26028.6	26252.2	27680.6	28156.8	30544.6	28871.0	24520.8	25675.1	30032.4
62.5°	29094.6	28705.0	28914.2	29686.1	30833.2	31374.3	33329.3	30097.4	25054.7	26057.4	27911.5
65°	32824.3	32297.7	32081.2	33076.8	36049.0	35616.2	36806.5	31013.5	24282.8	24629.0	23669.6
67.5°	36604.5	36662.2	36106.7	38105.0	41748.2	41748.2	40038.4	31453.6	22190.7	19961.5	16599.7
70°	39605.6	39785.9	40088.9	43962.9	49734.2	50607.1	44042.3	29650.1	17927.1	13288.4	9075.4
72.5°	39562.3	39021.2	40572.3	47707.0	56991.6	56263.0	44879.1	23445.9	11189.1	6507.1	4162.6
73°	38675.0	38220.5	39915.8	47671.0	57287.4	56602.1	44265.9	21613.5	9868.9	5641.5	3700.8
75°	31583.5	30761.1	33646.7	43176.6	53002.2	53528.8	37607.3	14096.4	5410.6	3477.2	2604.3
77.5°	14399.4	14760.1	18518.7	28964.7	40846.4	41466.8	24722.8	6095.9	2965.0	2438.4	1919.0
80°	4624.3	4855.1	7206.9	14399.4	25602.9	26721.1	11427.2	2770.2	2113.7	1868.5	1435.6
82.5°	1767.5	1760.2	3022.7	5987.7	12134.2	12848.4	4177.0	1688.1	1572.7	1377.9	1017.2
85°	620.4	649.3	1139.8	2366.2	4775.8	4999.4	1450.0	937.8	1089.3	923.4	584.3
87.5°	216.4	223.6	404.0	858.5	1644.8	1738.6	404.0	375.1	541.1	533.8	295.8
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°	9782.4	9782.4	9782.4	9782.4	9782.4	9782.4	9782.4	9782.4	9782.4	9782.4	9782.4
2.5°	9883.4	9948.3	9969.9	10229.6	10229.6	10229.6	10330.6	10330.6	10301.8	10229.6	10402.8
5°	9926.6	10042.1	10265.7	10489.3	10547.1	10597.6	10734.6	10619.2	10662.5	10590.3	10655.3
7.5°	10049.3	10208.0	10626.4	10763.5	10669.7	10777.9	10633.6	10554.3	10474.9	10503.8	10402.8
10°	10258.5	10460.5	10655.3	10907.8	10727.4	10619.2	10323.4	10251.3	9998.8	9912.2	9991.6
12.5°	10518.2	10763.5	11095.3	11001.5	10655.3	10345.1	10027.6	9724.6	9573.2	9356.7	9414.4
15°	10777.9	11059.3	11109.8	10951.1	10518.2	10128.6	9551.5	9125.9	8974.4	8779.6	8880.6
17.5°	11059.3	11326.2	11239.6	10828.4	10244.1	9652.5	8996.0	8577.6	8260.2	8137.5	8137.5
20°	11477.7	11607.5	11470.5	10626.4	9912.2	9133.1	8498.2	8022.1	7704.7	7654.2	7574.8
22.5°	11802.3	12011.5	11398.3	10330.6	9428.9	8455.0	7726.3	7546.0	7452.2	7372.8	7271.8
25°	12220.7	12213.5	11268.5	10056.5	8599.2	7647.0	7206.9	7192.5	7149.2	7120.3	7257.4
27.5°	12617.5	12451.6	11117.0	9378.4	7740.8	7033.8	6795.7	6954.4	7019.3	6976.1	7033.8
30°	13245.1	12971.0	10900.6	8657.0	6983.3	6413.4	6456.6	6673.1	6781.3	6846.2	6759.6
32.5°	13908.8	13490.4	10453.3	7906.7	6312.4	6023.8	6124.8	6348.4	6478.3	6550.4	6629.8
35°	14868.3	13894.4	9998.8	6925.6	5829.0	5785.7	5843.4	5966.1	6153.7	6204.2	6225.8
37.5°	16051.4	14507.6	9385.6	6139.2	5453.9	5504.4	5562.1	5605.4	5612.6	5706.4	5670.3
40°	17234.6	15027.0	8491.0	5389.0	5064.3	5338.5	5309.6	5230.2	5165.3	5078.7	5057.1
42.5°	18273.4	15481.5	7495.5	4754.1	4718.0	5165.3	5071.5	4869.5	4718.0	4653.1	4544.9
45°	19442.1	16123.6	6492.7	4357.3	4451.1	4956.1	4927.3	4617.0	4422.3	4191.4	4162.6
47.5°	20957.0	16794.5	5533.2	3946.1	4198.6	4876.8	4891.2	4494.4	4213.1	3902.8	3859.6
50°	22897.7	17761.2	4804.6	3773.0	4047.1	4761.3	4783.0	4328.5	3960.6	3643.1	3614.3
52.5°	24758.9	18749.5	4198.6	3506.1	3946.1	4624.3	4674.8	4177.0	3751.3	3354.6	3376.2
55°	25696.7	18388.8	3679.2	3311.3	3715.3	4400.6	4588.2	4068.8	3433.9	3159.8	3152.6
57.5°	25905.9	17501.5	3268.0	3109.3	3520.5	4162.6	4443.9	3744.1	3289.6	3058.8	3029.9
60°	25220.6	15950.4	2943.4	2892.9	3275.2	3917.3	4112.1	3571.0	3145.4	2957.8	2914.5
62.5°	23532.5	14341.7	2719.7	2791.9	3066.0	3650.4	3902.8	3448.4	3008.3	2878.4	2784.7
65°	19297.8	11795.1	2539.4	2597.1	2849.6	3390.6	3773.0	3311.3	2885.7	2763.0	2755.8
67.5°	13367.8	8130.3	2395.1	2503.3	2676.4	3203.1	3643.1	3159.8	2726.9	2683.7	2625.9
70°	6846.2	4335.7	2207.5	2294.1	2488.9	2965.0	3412.3	3001.1	2561.0	2553.8	2481.7
72.5°	3470.0	2539.4	1991.1	2121.0	2258.0	2654.8	3123.7	2791.9	2351.8	2272.5	2157.0
73°	3001.1	2351.8	1955.0	2070.5	2200.3	2568.2	3037.1	2741.4	2323.0	2207.5	2099.3
75°	2185.9	1854.0	1753.0	1868.5	1969.5	2315.7	2748.6	2510.5	2135.4	2012.7	1911.7
77.5°	1637.6	1428.4	1457.3	1587.1	1673.7	1998.3	2445.6	2272.5	1933.4	1767.5	1724.2
80°	1204.8	1089.3	1204.8	1327.4	1392.3	1760.2	2229.2	1969.5	1630.4	1442.8	1406.8
82.5°	858.5	793.6	930.6	1010.0	1038.8	1457.3	2005.5	1572.7	1233.6	988.3	909.0
85°	490.6	483.3	627.6	620.4	642.1	851.3	1320.2	1046.0	793.6	606.0	591.6
87.5°	216.4	238.1	317.4	252.5	266.9	404.0	562.7	389.6	324.6	180.4	137.1
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)