

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: P977439

Luminaire Tested: **EPH-VN-08-E-740-U-T2R**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977439
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-T2R
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R
distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67907.1 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
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

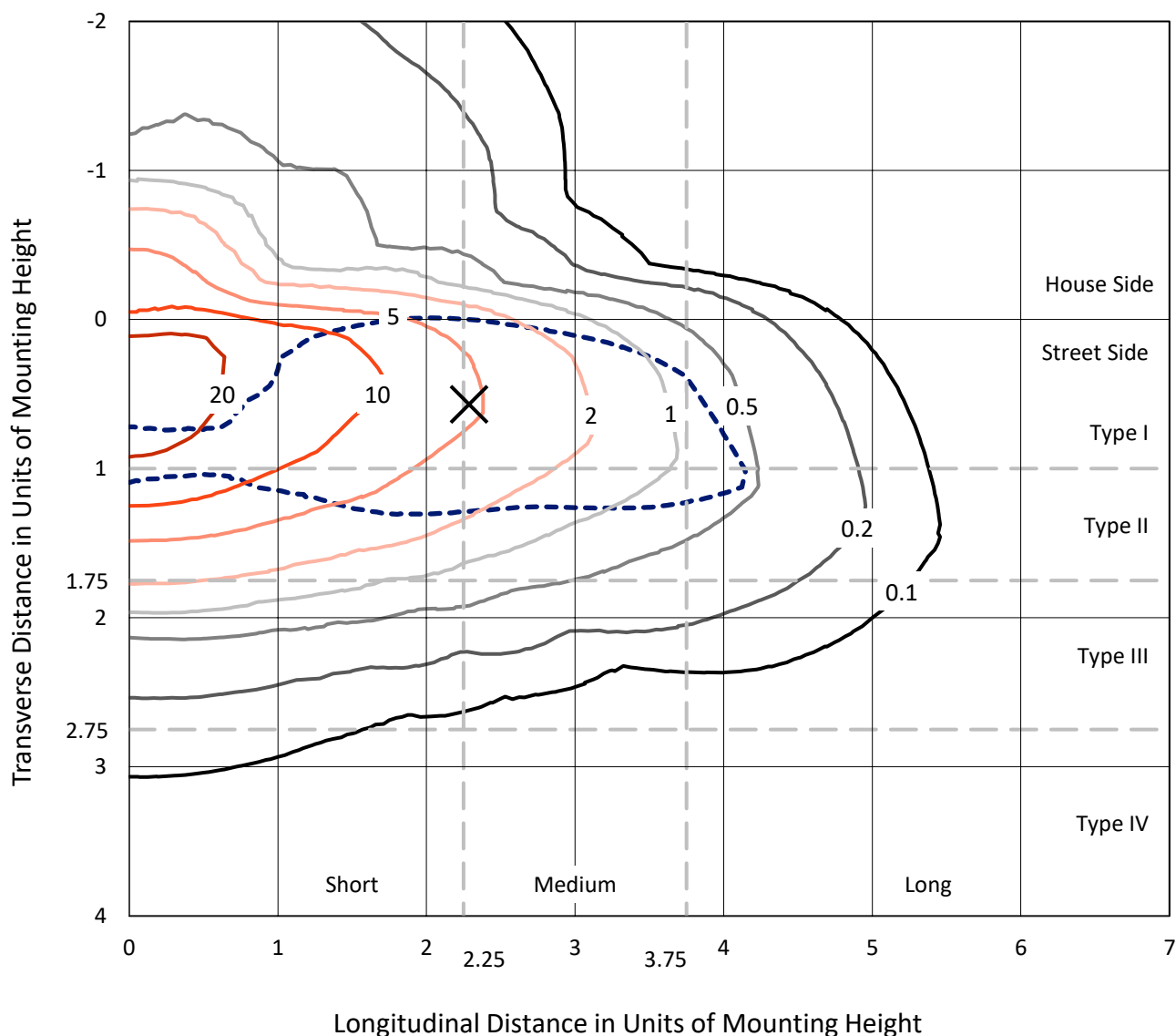
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

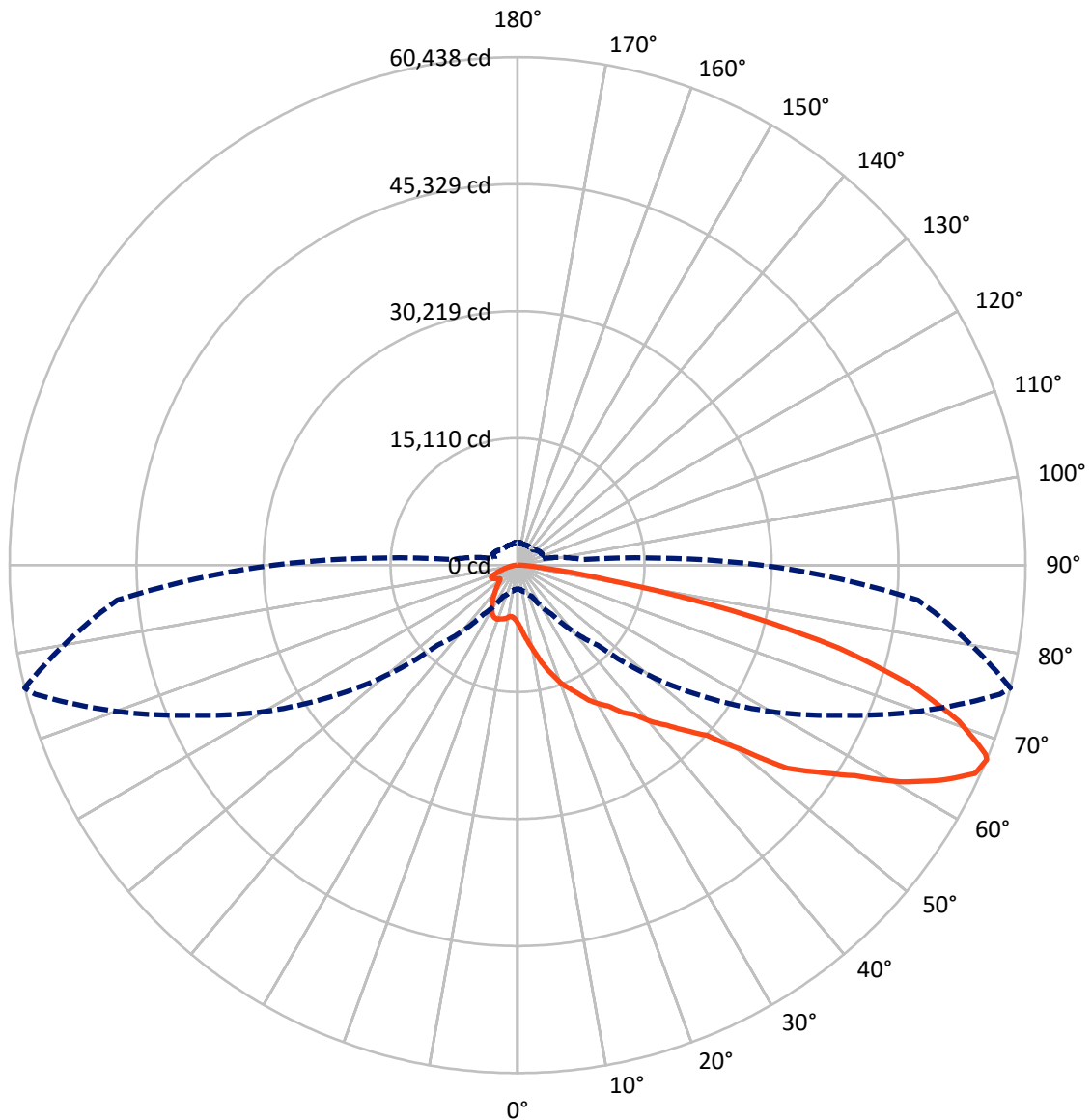


Based on 25 foot mounting height. Maximum calculated value = 25.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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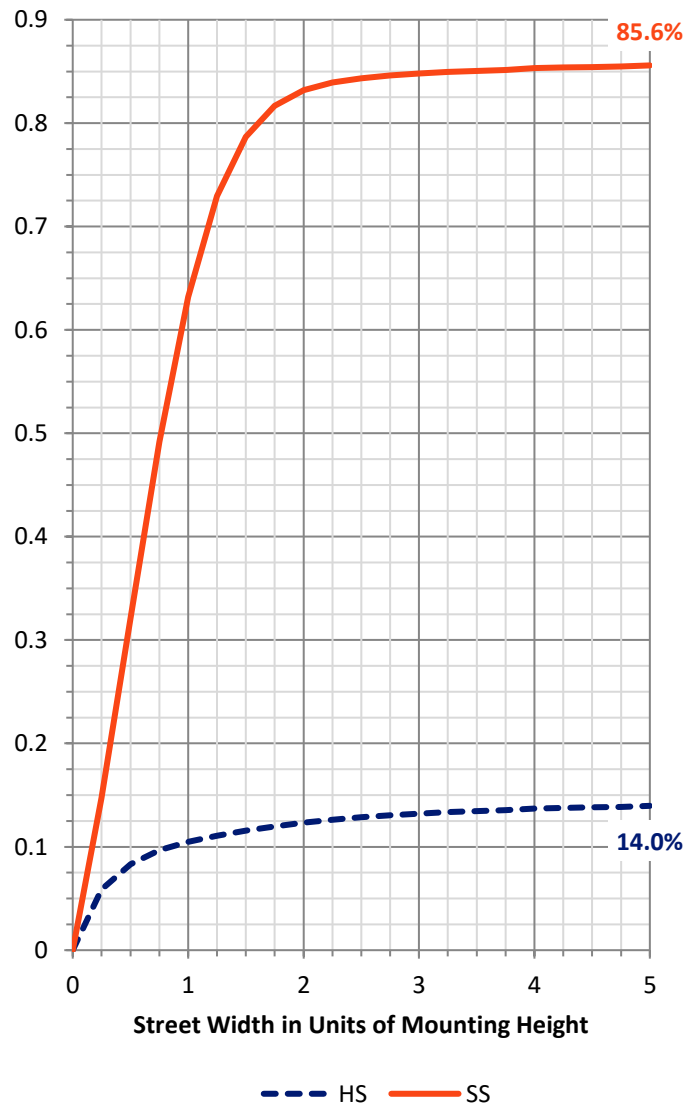
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9660.6	0.0	9660.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	58246.4	0.0	58246.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	67907.1	0.0	67907.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	805.0	1.2
10°-20°	3019.1	4.4
20°-30°	5612.8	8.3
30°-40°	8897.6	13.1
40°-50°	12306.2	18.1
50°-60°	15137.4	22.3
60°-70°	14086.1	20.7
70°-80°	7068.3	10.4
80°-90°	974.6	1.4
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°	67907.1	100.0
0°-180°	67907.1	100.0

Coefficient of Utilization



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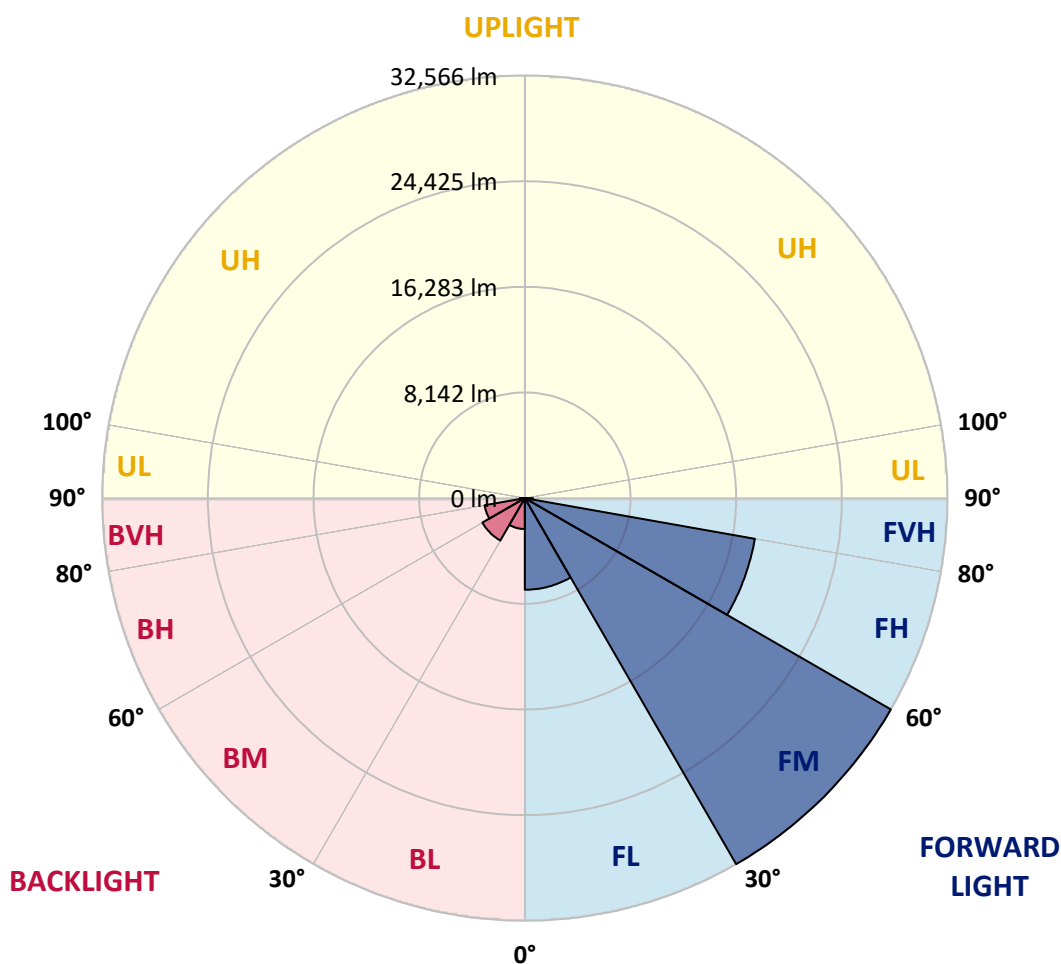
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7057.8	10.4			
FM	(30°-60°)	32566.0	48.0			
FH	(60°-80°)	18001.6	26.5			G5
FVH	(80°-90°)	620.9	0.9			G4/750
BL	(0°-30°)	2379.0	3.5	B3/2500		
BM	(30°-60°)	3775.2	5.6	B3/5000		
BH	(60°-80°)	3152.8	4.6	B4/5000		G4/5000
BVH	(80°-90°)	353.7	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6949.3	6949.3	6949.3	6949.3	6949.3	6949.3	6949.3	6949.3	6949.3	6949.3	6949.3
2.5°	9642.3	9526.2	9410.1	9162.5	9077.4	8845.2	8419.6	7947.5	7560.6	7506.4	7235.6
5°	11963.9	11793.6	11754.9	11615.6	11174.5	10725.7	10029.2	9270.8	8326.7	8396.4	7467.7
7.5°	13705.0	13604.4	13395.5	13263.9	13000.8	12405.0	11685.3	10679.3	9479.8	9247.6	7986.2
10°	15020.6	14881.3	14873.6	14757.5	14618.2	14006.8	13457.4	12103.2	10563.2	10245.9	8620.8
12.5°	15686.1	15662.9	16073.0	16073.0	16018.9	15763.5	14819.4	13581.2	11592.4	11484.1	9356.0
15°	16405.8	16212.3	16568.3	16839.2	16978.5	17110.0	16328.4	15020.6	12908.0	12699.0	10145.3
17.5°	16405.8	16390.3	16746.3	17195.1	17922.6	18092.8	17667.2	16343.9	13999.1	13844.3	11012.0
20°	16127.2	16351.6	16599.3	17202.9	17992.2	18681.0	18804.8	17698.1	15206.3	15082.5	11994.8
22.5°	17427.3	17210.6	17466.0	17698.1	18309.5	19354.2	19694.7	18889.9	16475.5	16003.4	12884.7
25°	19609.6	19462.5	19276.8	18936.3	19191.7	19648.3	20166.8	19772.1	17558.9	17032.6	13743.7
27.5°	21737.7	21745.4	21343.0	20600.1	20050.7	20143.5	20754.9	20546.0	18472.0	18239.9	14331.9
30°	24763.5	24577.8	24128.9	23122.9	22047.2	21165.0	21064.4	21265.6	19632.8	19184.0	15175.4
32.5°	27030.9	27069.6	26435.0	24987.9	23517.6	22797.9	21915.7	22000.8	20368.0	20035.2	15848.6
35°	28864.9	28818.5	28369.7	27170.2	25429.0	24562.3	23370.5	22883.0	22078.2	21552.0	16877.9
37.5°	30846.0	30466.8	29739.4	28385.1	27270.8	26071.3	24910.5	23811.6	23215.8	22581.2	17760.1
40°	31643.1	31643.1	30668.0	30048.9	28725.6	27820.2	27069.6	25034.3	24601.0	24477.2	18889.9
42.5°	31078.2	31426.4	31024.0	30319.8	29778.1	28632.8	28431.6	26303.5	26311.2	26063.6	20244.1
45°	31024.0	30544.2	30211.4	30389.4	30134.1	30072.2	30582.9	28060.1	28106.6	28075.6	22062.7
47.5°	29468.5	29251.9	29747.1	30041.2	30250.1	31209.7	32680.1	30157.3	30490.0	30257.9	24159.9
50°	27920.8	27882.1	28191.7	29259.6	30165.0	31743.7	34676.6	33392.0	34483.1	34467.7	27959.5
52.5°	23680.1	24090.2	25305.2	27564.8	29801.3	32471.1	36185.6	37524.4	39606.1	40171.0	31109.1
55°	19625.1	19408.4	21203.7	24484.9	28214.9	32757.4	37872.6	40008.5	43073.0	43483.1	34343.9
57.5°	15268.2	15670.6	17086.8	20236.4	24933.7	31341.3	39110.8	42461.6	46988.7	47306.0	38097.1
60°	11391.2	11445.4	13000.8	15539.1	20569.2	28145.2	39513.2	44976.7	51477.1	52382.5	42028.3
62.5°	7165.9	7491.0	8675.0	11174.5	15484.9	23672.3	37710.1	46501.2	56182.1	56422.0	45990.4
65°	3861.6	4070.5	4960.4	6531.4	10818.5	17907.1	32927.7	45588.0	58395.4	59819.3	47754.8
67°	2855.5	2894.2	3304.4	4171.1	7235.6	13480.6	27456.5	42283.6	59401.4	60438.4	47824.5
67.5°	2677.6	2731.7	3056.7	3745.5	6415.3	12412.7	26024.9	41107.4	58952.6	60066.9	47282.8
70°	2290.6	2306.1	2383.5	2576.9	3598.4	7467.7	17721.4	33686.1	54642.2	55710.1	43483.1
72.5°	2035.2	2050.7	2081.7	2120.4	2437.7	4318.1	10779.9	25924.3	47491.7	49194.2	37516.7
75°	1787.6	1841.8	1857.3	1826.3	2073.9	2809.1	5734.3	19052.4	38739.4	39567.4	29174.5
77.5°	1516.8	1540.0	1570.9	1601.9	1849.5	2097.2	2754.9	12861.5	26589.8	26086.8	15779.0
80°	1276.9	1284.6	1307.8	1331.0	1601.9	1601.9	1563.2	6949.3	11615.6	11104.9	5331.9
82.5°	913.2	967.3	1021.5	1083.4	1331.0	1075.7	1021.5	3095.4	3675.8	3497.8	1803.1
85°	356.0	433.4	673.3	742.9	843.5	580.4	681.0	1338.8	1532.2	1516.8	673.3
87.5°	61.9	69.6	185.7	286.3	309.5	201.2	325.0	479.8	572.7	619.1	247.6
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°	6949.3	6949.3	6949.3	6949.3	6949.3	6949.3	6949.3	6949.3	6949.3	6949.3	6949.3
2.5°	7011.2	6771.3	6484.9	6198.6	6012.9	5718.8	5695.6	5517.6	5494.4	5432.5	5463.4
5°	7065.3	6779.0	6198.6	5742.0	5533.1	5362.8	5401.5	5324.1	5300.9	5262.2	5200.3
7.5°	7491.0	6926.0	6059.3	5664.6	5509.9	5432.5	5432.5	5339.6	5270.0	5316.4	5362.8
10°	7769.5	6995.7	6167.7	5773.0	5649.2	5478.9	5540.8	5424.7	5463.4	5370.6	5370.6
12.5°	8218.4	7390.4	6392.1	5935.5	5734.3	5579.5	5641.4	5509.9	5478.9	5486.7	5463.4
15°	8822.0	7653.5	6492.7	6028.4	5889.1	5695.6	5649.2	5533.1	5417.0	5378.3	5424.7
17.5°	9386.9	7978.5	6562.3	6082.5	5858.1	5641.4	5587.3	5440.2	5401.5	5285.5	5192.6
20°	10060.2	8365.4	6655.2	6129.0	5742.0	5525.4	5386.1	5239.0	5107.5	5037.8	5068.8
22.5°	10509.0	8566.6	6701.6	6036.1	5571.8	5370.6	5076.5	4975.9	4790.2	4712.8	4650.9
25°	11244.2	8814.3	6585.5	5780.7	5270.0	4945.0	4681.8	4542.6	4411.0	4310.4	4279.4
27.5°	11429.9	9000.0	6314.7	5347.4	4790.2	4449.7	4225.3	4055.0	3969.9	3815.1	3784.2
30°	11971.6	8814.3	5912.3	4821.1	4333.6	3985.4	3761.0	3637.1	3435.9	3397.2	3312.1
32.5°	12319.8	8868.4	5401.5	4310.4	3807.4	3497.8	3350.8	3227.0	3172.8	2987.1	2940.7
35°	12900.2	8682.7	4883.0	3838.3	3374.0	3134.1	3010.3	2971.6	2793.6	2708.5	2631.1
37.5°	13271.7	8574.4	4364.6	3304.4	2902.0	2801.4	2840.1	2677.6	2460.9	2298.4	2244.2
40°	13921.7	8535.7	3776.4	2863.3	2576.9	2553.7	2677.6	2368.0	1973.3	1834.0	1756.7
42.5°	14858.1	8272.6	3319.9	2468.6	2321.6	2422.2	2445.4	1973.3	1748.9	1632.8	1578.7
45°	15755.8	8326.7	2871.0	2043.0	2019.8	2166.8	2112.6	1671.5	1540.0	1454.9	1501.3
47.5°	17481.5	8597.6	2429.9	1702.5	1818.6	1957.9	1640.6	1493.5	1369.7	1307.8	1315.6
50°	20151.3	8860.7	2043.0	1555.5	1718.0	1772.1	1408.4	1354.3	1346.5	1222.7	1215.0
52.5°	21753.2	8760.1	1973.3	1741.2	1841.8	1772.1	1532.2	1493.5	1431.6	1377.5	1315.6
55°	24299.2	9054.1	2120.4	2035.2	2089.4	1702.5	1718.0	1702.5	1656.1	1516.8	1555.5
57.5°	26326.7	9247.6	2313.8	2275.1	2244.2	1772.1	1795.4	1803.1	1772.1	1710.2	1764.4
60°	29112.6	9634.5	2515.0	2522.8	2530.5	1926.9	1965.6	2012.0	2004.3	1981.1	1996.6
62.5°	30822.8	9456.6	2739.5	2863.3	2824.6	2244.2	2236.5	2267.4	2267.4	2306.1	2329.3
65°	30567.4	8798.8	2855.5	3165.1	2963.9	2476.3	2476.3	2491.8	2499.6	2576.9	2584.7
67°	29035.2	7622.5	2793.6	3211.5	2963.9	2569.2	2569.2	2584.7	2530.5	2731.7	2669.8
67.5°	28323.2	7274.3	2739.5	3172.8	2940.7	2561.5	2561.5	2569.2	2522.8	2716.2	2654.3
70°	24631.9	5401.5	2360.3	2809.1	2724.0	2491.8	2491.8	2445.4	2406.7	2662.1	2607.9
72.5°	21025.7	3923.5	1896.0	2391.2	2460.9	2399.0	2414.4	2298.4	2190.0	2368.0	2321.6
75°	16104.0	2886.5	1478.1	1841.8	2081.7	2244.2	2344.8	2050.7	1911.4	1957.9	1872.7
77.5°	8984.5	1880.5	1168.5	1362.0	1586.4	2089.4	2251.9	1849.5	1563.2	1509.0	1509.0
80°	3049.0	1098.9	859.0	1013.8	1091.1	1849.5	2104.9	1501.3	1230.4	1176.3	1137.6
82.5°	1153.0	673.3	588.1	696.5	696.5	1462.6	1718.0	1153.0	928.6	1199.5	1222.7
85°	526.2	402.4	386.9	402.4	402.4	897.7	1215.0	750.6	835.8	719.7	634.6
87.5°	208.9	193.5	178.0	170.2	139.3	154.8	417.9	201.2	379.2	100.6	92.9
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)