

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: P977447

Luminaire Tested: **EPH-VN-08-E-730-U-T3R**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977447
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-T3R
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60402 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

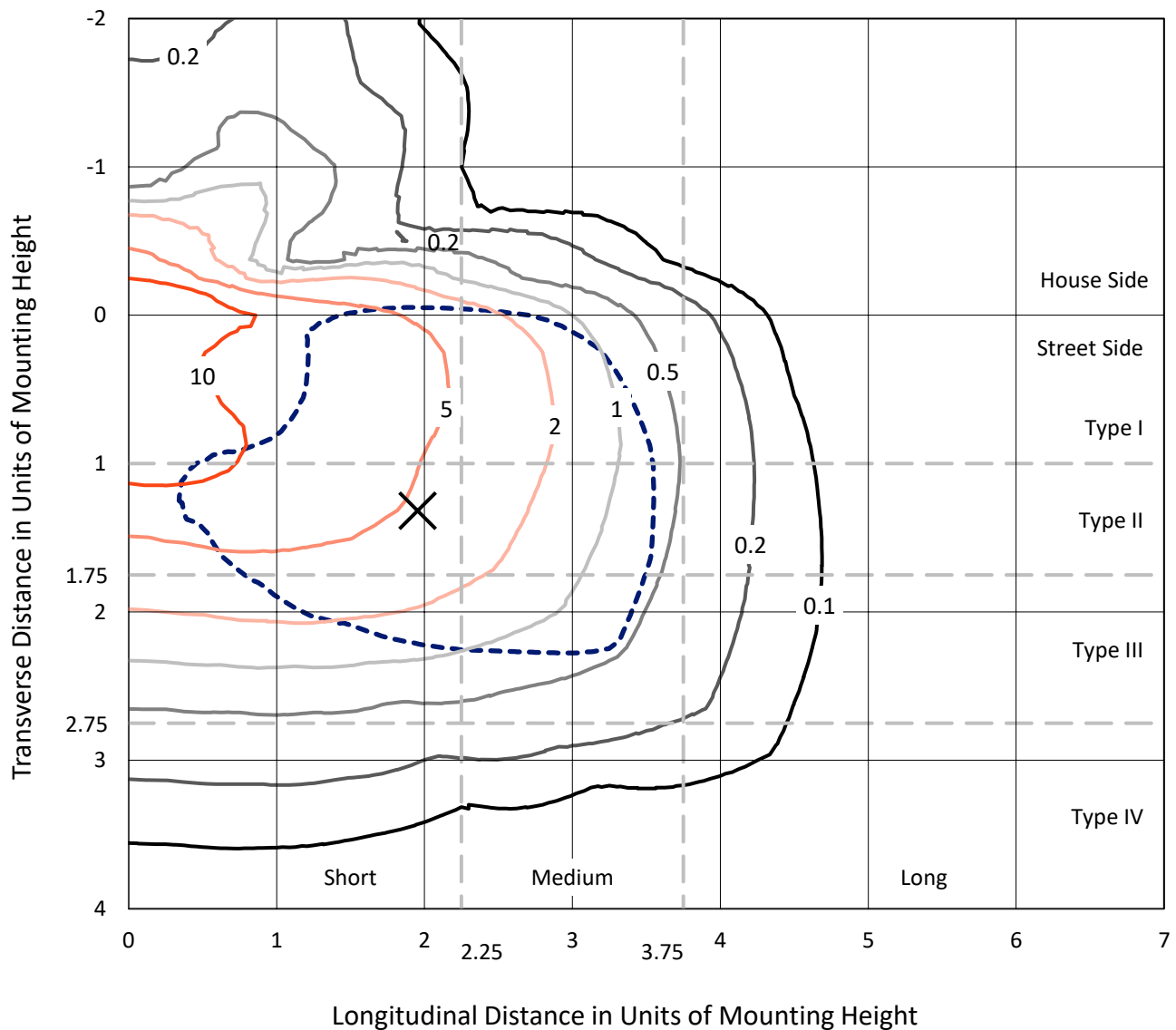
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

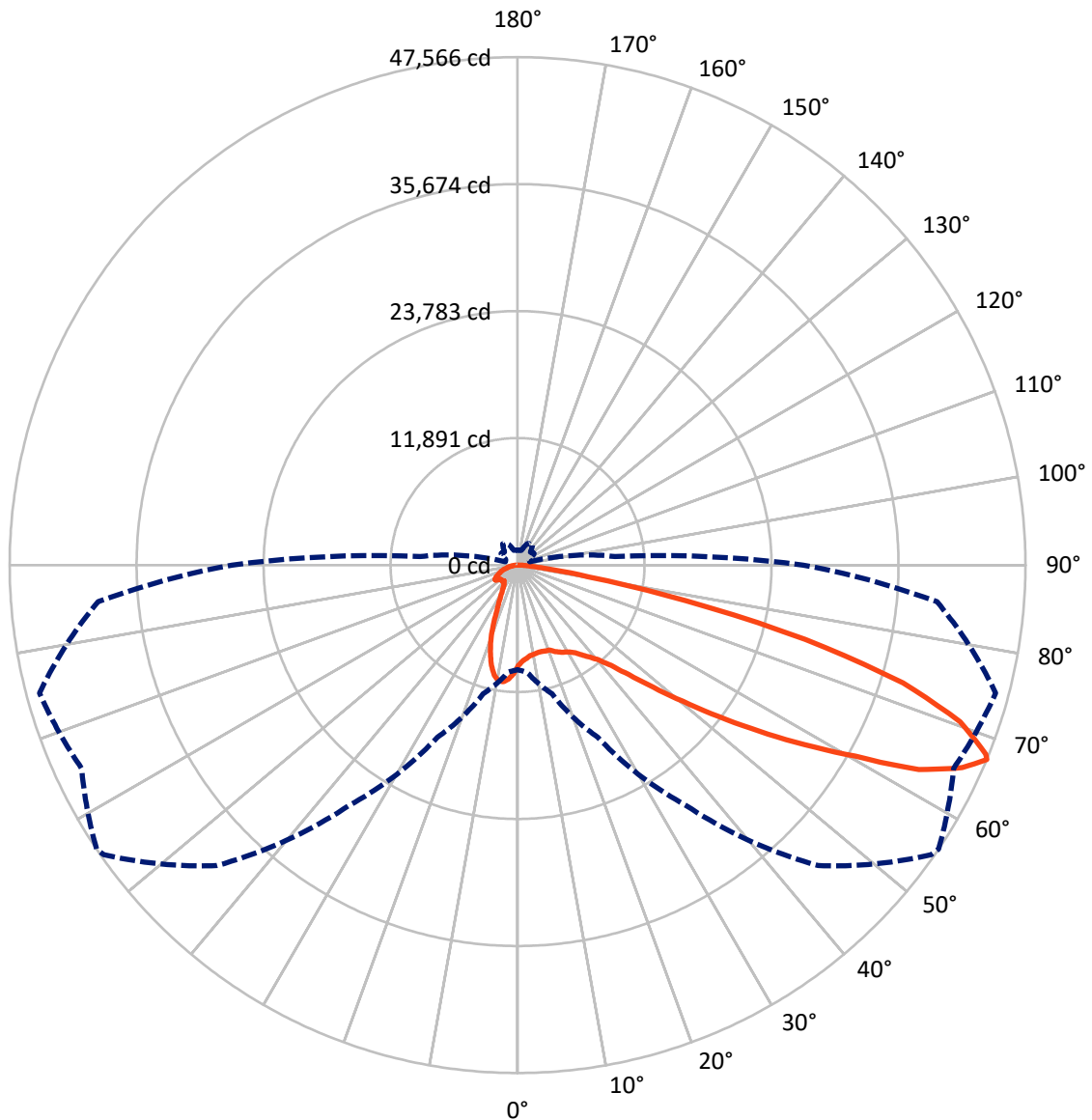


Based on 25 foot mounting height. Maximum calculated value = 16.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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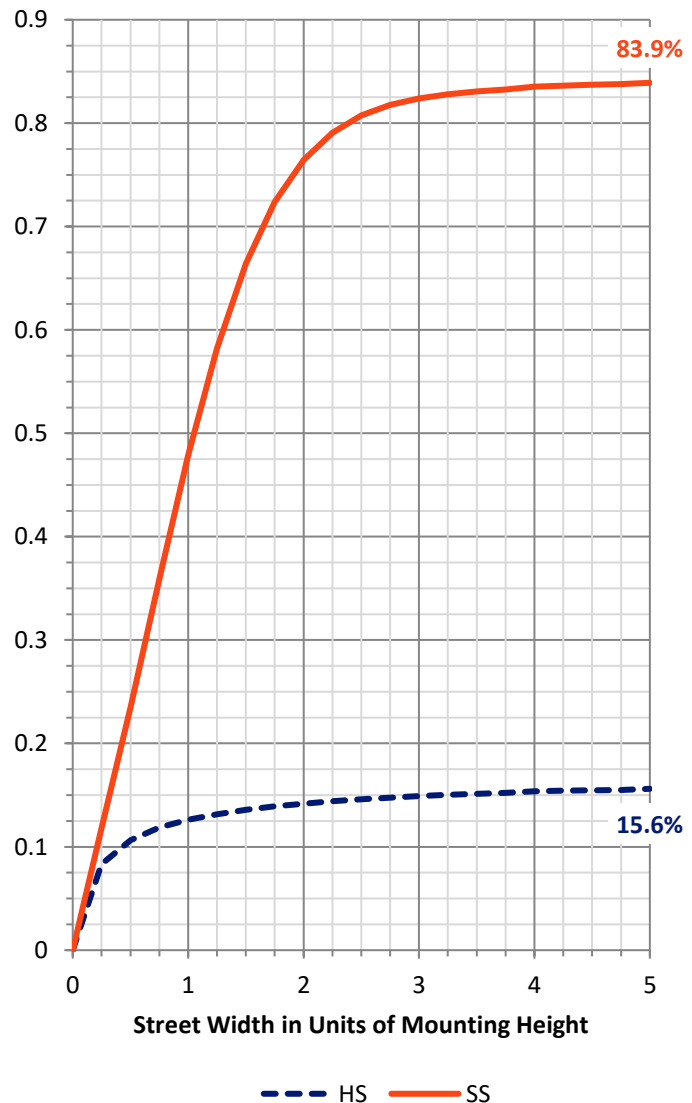
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9562.3	0.0	9562.3
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	50839.8	0.0	50839.8
	% Fixture	84.2	0.0	84.2
Total	Lumens	60402.0	0.0	60402.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	905.4	1.5
10°-20°	2470.1	4.1
20°-30°	3873.8	6.4
30°-40°	5530.0	9.2
40°-50°	8346.3	13.8
50°-60°	13285.8	22.0
60°-70°	16984.9	28.1
70°-80°	8281.3	13.7
80°-90°	724.4	1.2
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°	60402.0	100.0
0°-180°	60402.0	100.0

Coefficient of Utilization



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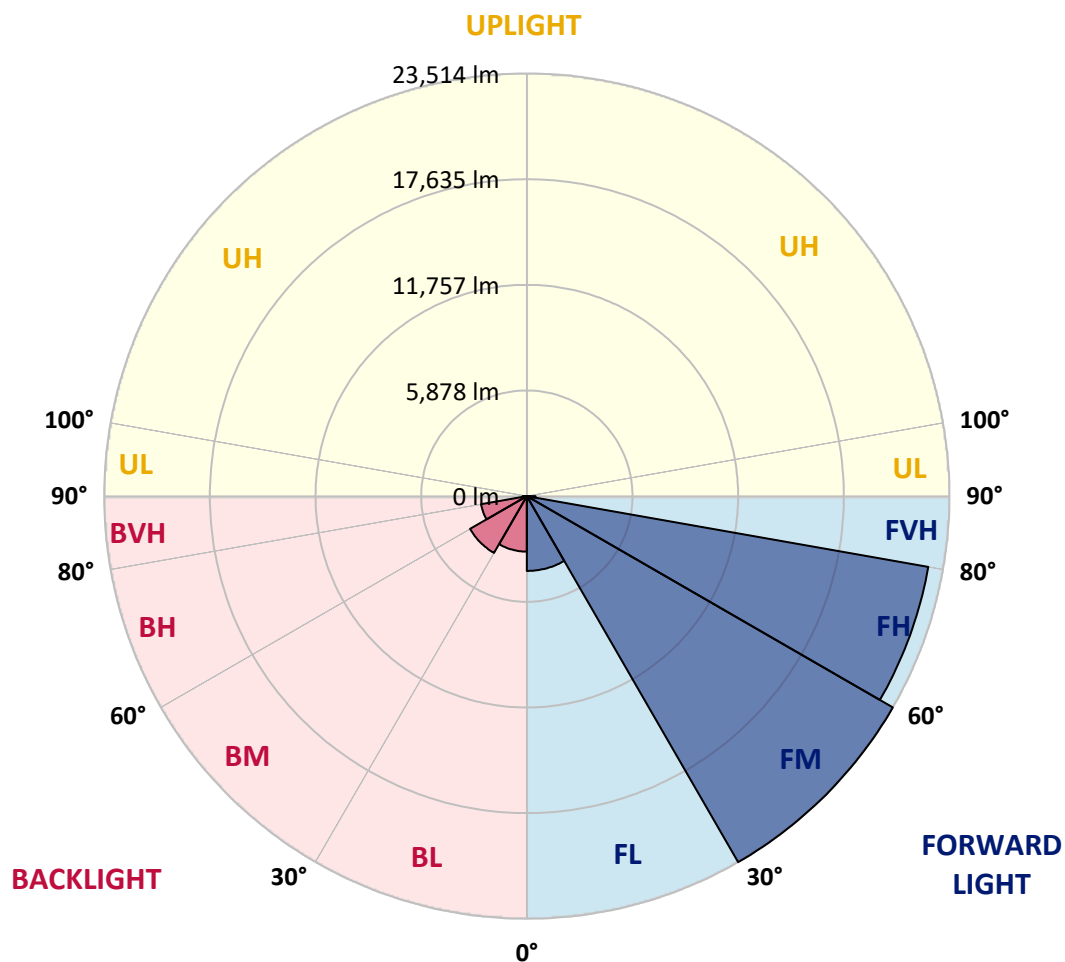
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4162.4	6.9			
FM	(30°-60°)	23514.0	38.9			
FH	(60°-80°)	22682.3	37.6			G5
FVH	(80°-90°)	481.1	0.8			G3/500
BL	(0°-30°)	3087.0	5.1	B4/5000		
BM	(30°-60°)	3648.1	6.0	B3/5000		
BH	(60°-80°)	2583.9	4.3	B4/5000		G4/5000
BVH	(80°-90°)	243.3	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9398.4	9398.4	9398.4	9398.4	9398.4	9398.4	9398.4	9398.4	9398.4	9398.4	9398.4
2.5°	8633.5	8598.1	8640.6	8598.1	8789.3	8902.6	8938.0	8987.6	9164.7	9334.7	9483.4
5°	8272.3	8116.5	8286.5	8343.1	8357.3	8548.5	8746.8	8782.2	8874.3	9150.5	9603.8
7.5°	7670.3	7847.3	7783.6	7953.6	8130.6	8321.9	8647.7	8555.6	8895.5	9157.6	9823.3
10°	7542.8	7557.0	7627.8	7691.5	7847.3	8095.2	8548.5	8491.8	8838.9	9398.4	10007.5
12.5°	7670.3	7670.3	7649.0	7599.5	7776.5	8017.3	8378.5	8406.9	8952.2	9469.2	10290.8
15°	8116.5	8201.5	7974.8	8010.2	7939.4	8017.3	8336.0	8399.8	8994.7	9525.9	10460.8
17.5°	9207.2	9178.8	8909.7	8534.3	8222.7	8173.1	8392.7	8463.5	8952.2	9688.8	10673.2
20°	10269.5	10212.9	9745.4	9355.9	8739.7	8449.3	8484.8	8491.8	9023.0	9795.0	11013.2
22.5°	11452.3	11601.0	11091.1	10297.9	9533.0	8810.6	8668.9	8782.2	9185.9	9851.7	11048.6
25°	13307.9	12989.2	12550.1	11509.0	10276.6	9370.1	8973.4	9030.1	9341.7	9993.3	11133.6
27.5°	14646.5	14519.0	13832.0	12989.2	11317.7	9809.2	9136.3	9242.6	9625.0	9986.2	11254.0
30°	15935.5	15935.5	15517.6	14256.9	12415.5	10545.7	9483.4	9433.8	9490.5	9972.1	11509.0
32.5°	17444.0	17238.7	16636.6	15800.9	13796.6	11218.6	9759.6	9773.8	9773.8	10234.1	11763.9
35°	18237.3	18570.2	18166.5	16806.6	14851.9	12337.6	10425.3	10319.1	10241.2	10524.5	12089.7
37.5°	19398.8	19597.1	19172.2	18371.8	16162.1	13244.2	11013.2	10928.2	10474.9	10751.1	12918.4
40°	20100.0	20064.5	20050.4	19682.1	17897.3	14313.6	11877.2	11657.7	11048.6	11551.5	13945.3
42.5°	20496.6	20425.8	21296.9	21070.3	19533.4	15885.9	12960.9	12840.5	12167.6	12975.0	15531.8
45°	20942.8	21466.9	22182.2	22819.6	21438.5	18095.6	14795.2	14625.2	14023.2	15050.2	17649.4
47.5°	21332.3	21976.8	22890.4	23570.4	23159.6	20496.6	17061.6	17104.1	16707.5	17762.8	20305.3
50°	21983.9	22047.6	23287.1	24661.0	24979.8	22713.4	20107.0	20036.2	19859.2	21339.4	23195.0
52.5°	21785.6	21976.8	23542.0	25298.5	25822.6	25057.7	23379.1	23591.6	23357.9	25220.6	26509.6
55°	18556.0	19129.7	23386.2	25971.3	27819.8	27706.5	27586.1	27444.4	27430.3	29583.3	30730.7
57.5°	17089.9	17557.4	20602.8	26715.0	29958.7	30794.4	31573.5	31729.3	31722.2	34321.5	34774.8
60°	16126.7	16608.3	19476.7	26311.3	31778.9	34838.5	36332.9	36354.2	36311.7	39385.4	37919.4
62.5°	14242.8	14710.2	17529.0	24101.5	32281.8	38571.0	41899.7	42175.9	40228.2	43748.2	39867.0
65°	11976.4	12358.9	14844.8	20723.2	30943.2	40943.6	46085.4	45759.6	43528.7	46241.2	40419.5
67°	9795.0	10050.0	12472.2	17791.1	27444.4	39803.3	47296.5	47565.7	45051.4	46347.5	39427.9
67.5°	9171.8	9405.5	11693.1	16792.5	26112.9	38939.2	47339.0	47296.5	45079.7	46368.7	38910.9
70°	6367.1	6466.3	7967.7	11551.5	19235.9	32897.9	43882.8	43981.9	43188.7	43854.5	34342.7
72.5°	4221.1	4369.9	5326.0	7280.7	11339.0	23938.6	36679.9	37742.3	37239.5	35957.5	25227.6
75°	2719.7	2804.6	3484.6	4334.5	5581.0	13633.7	27097.4	27805.7	26651.2	22238.9	14129.5
77.5°	1522.7	1614.8	2103.5	2634.7	2719.7	5673.0	15220.2	16098.4	13640.8	9448.0	5644.7
80°	949.0	1069.4	1586.5	1565.2	1296.1	2082.2	6275.0	6721.2	5453.5	3250.8	1883.9
82.5°	715.3	807.4	1225.3	1097.8	729.5	927.8	2351.4	2521.3	1997.2	1253.6	828.6
85°	488.7	616.2	885.3	679.9	382.5	446.2	934.9	1005.7	913.6	609.1	332.9
87.5°	177.1	262.1	460.4	340.0	170.0	134.6	304.5	340.0	325.8	276.2	148.7
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°	9398.4	9398.4	9398.4	9398.4	9398.4	9398.4	9398.4	9398.4	9398.4	9398.4	9398.4
2.5°	9618.0	9717.1	9766.7	10057.1	10177.5	10156.2	10184.5	10227.0	10269.5	10326.2	10382.9
5°	9695.9	10000.4	10163.3	10503.3	10729.9	10630.7	10758.2	10722.8	10673.2	10666.2	10729.9
7.5°	9950.8	10340.4	10829.0	10921.1	11020.3	10772.4	10559.9	10269.5	10198.7	9950.8	10035.8
10°	10404.1	10722.8	11317.7	11353.1	10914.0	10276.6	9802.1	9200.1	9193.0	8831.8	8817.6
12.5°	10836.1	11197.3	11678.9	11473.5	10425.3	9554.2	8782.2	8123.6	7847.3	7663.2	7620.7
15°	11105.3	11700.2	11955.2	11069.9	9568.4	8392.7	7394.1	6685.8	6402.5	6268.0	6239.6
17.5°	11353.1	12181.8	12068.5	10361.6	8513.1	7195.8	6005.9	5389.7	5311.8	5212.7	5262.3
20°	11693.1	12358.9	11664.8	9440.9	7316.2	5651.8	4894.0	4596.5	4667.3	4709.8	4660.2
22.5°	12011.8	12450.9	11154.8	8435.2	5779.3	4476.1	4100.7	4164.5	4270.7	4412.4	4334.5
25°	12153.5	12599.7	10467.8	7047.0	4398.2	3767.9	3682.9	3789.1	3966.2	3973.2	4044.1
27.5°	12245.5	12493.4	9639.2	5694.3	3477.5	3293.3	3420.8	3498.7	3520.0	3605.0	3682.9
30°	12408.4	12273.9	8591.0	4072.4	2918.0	2925.0	3087.9	3087.9	3087.9	3151.7	3222.5
32.5°	12691.7	12125.1	7365.7	2974.6	2514.3	2740.9	2698.4	2684.2	2655.9	2578.0	2535.5
35°	12868.8	11721.4	5814.7	2202.6	2259.3	2514.3	2500.1	2280.5	1912.3	1728.1	1813.1
37.5°	13237.1	11516.0	4277.8	1699.8	2110.6	2400.9	2323.0	1791.9	1388.2	1211.1	1204.0
40°	14030.3	11381.5	2960.5	1487.3	2011.4	2344.3	2075.2	1529.8	1062.4	750.7	729.5
42.5°	15000.6	11388.6	2011.4	1402.3	2018.5	2464.7	1997.2	1310.3	750.7	602.0	587.8
45°	16303.8	11282.3	1381.1	1402.3	2146.0	2663.0	2046.8	1189.8	729.5	764.9	779.1
47.5°	17706.1	11374.4	1027.0	1274.8	2167.2	2670.1	1869.8	1168.6	701.2	885.3	984.5
50°	19342.1	11466.5	849.9	1175.7	2174.3	2585.1	1721.0	1140.3	729.5	934.9	1083.6
52.5°	21027.8	11756.8	722.4	1111.9	2259.3	2549.7	1721.0	1182.8	729.5	814.5	835.7
55°	23542.0	12500.5	1041.1	1388.2	2570.9	2783.4	2117.6	1657.3	1019.9	1048.2	1104.9
57.5°	26318.3	13265.4	1161.5	1459.0	2641.7	2507.2	2280.5	1827.3	1076.5	1083.6	1048.2
60°	28145.6	13293.7	1154.4	1423.6	2471.8	2167.2	2231.0	1926.4	1097.8	927.8	956.1
62.5°	28875.1	12429.7	1204.0	1423.6	2301.8	2025.6	2287.6	2075.2	1133.2	1161.5	1175.7
65°	28046.5	10644.9	1161.5	1274.8	2025.6	1813.1	2301.8	2103.5	1239.4	1168.6	1147.4
67°	26750.4	9171.8	1182.8	1211.1	1883.9	1721.0	2422.2	2209.7	1437.7	1402.3	1381.1
67.5°	26382.1	8782.2	1175.7	1175.7	1834.4	1692.7	2450.5	2209.7	1466.1	1451.9	1423.6
70°	23251.6	7117.8	1204.0	1161.5	1621.9	1607.7	2606.3	2330.1	1685.6	1699.8	1572.3
72.5°	17699.0	5396.8	1196.9	1161.5	1409.4	1536.9	2627.6	2408.0	1834.4	1699.8	1508.6
75°	10057.1	3229.6	1055.3	1012.8	1111.9	1338.6	2457.6	2294.7	1784.8	1522.7	1359.8
77.5°	4157.4	1664.4	970.3	913.6	920.7	1090.7	2046.8	2138.9	1699.8	1296.1	1225.3
80°	1551.1	998.6	779.1	729.5	708.2	800.3	1459.0	1706.9	1451.9	1062.4	970.3
82.5°	807.4	623.3	531.2	531.2	481.6	509.9	786.2	1133.2	1097.8	729.5	573.7
85°	410.8	354.1	304.5	297.5	269.1	240.8	396.6	672.8	630.3	403.7	332.9
87.5°	219.6	198.3	127.5	120.4	99.2	63.7	70.8	134.6	219.6	177.1	127.5
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)