

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: P638864

Luminaire Tested: **EPH-VN-03-E-930-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638864
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-03-E-930-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12723.4 lumens
Efficiency: N/A
Efficacy: 54.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G2

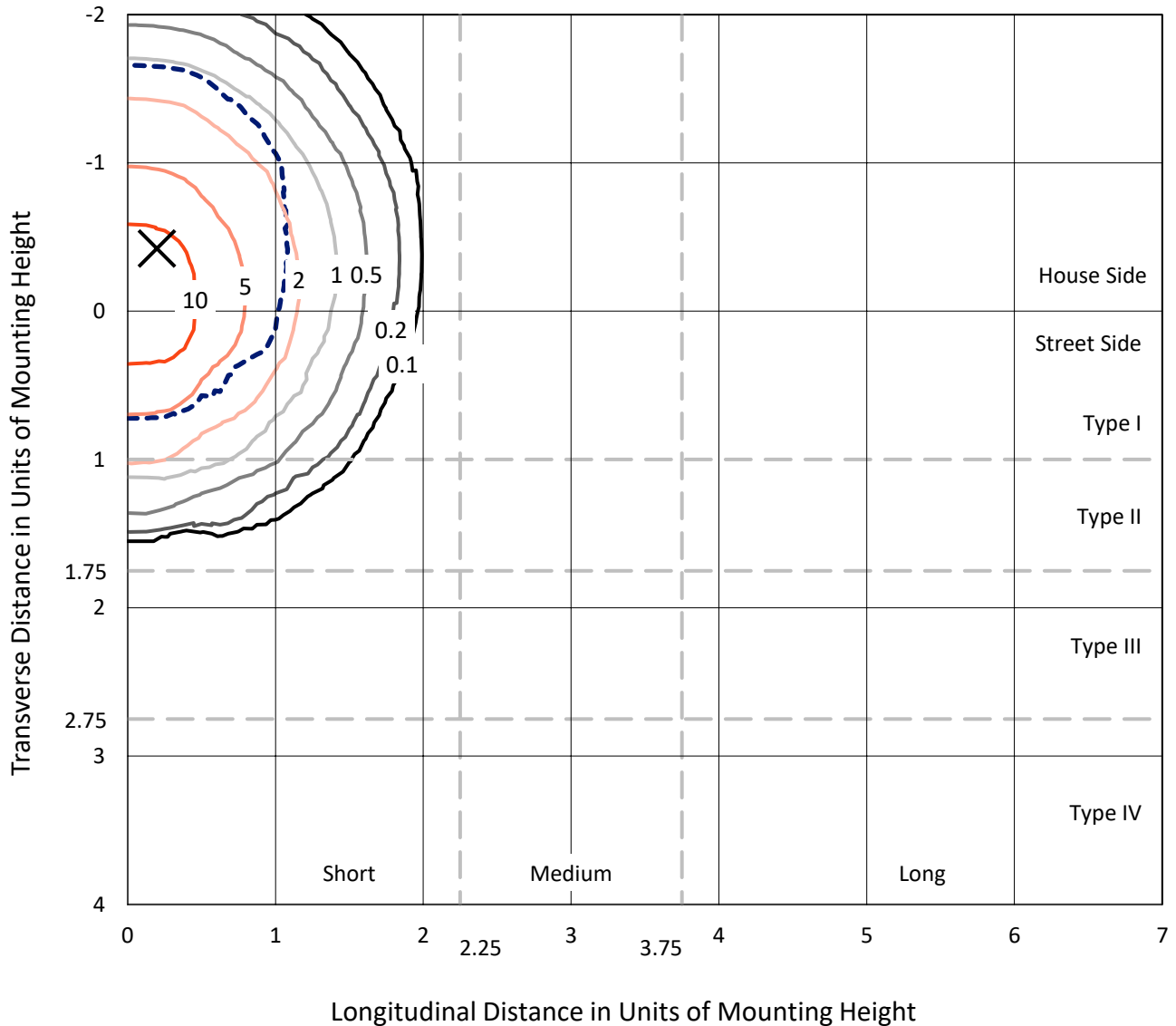
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

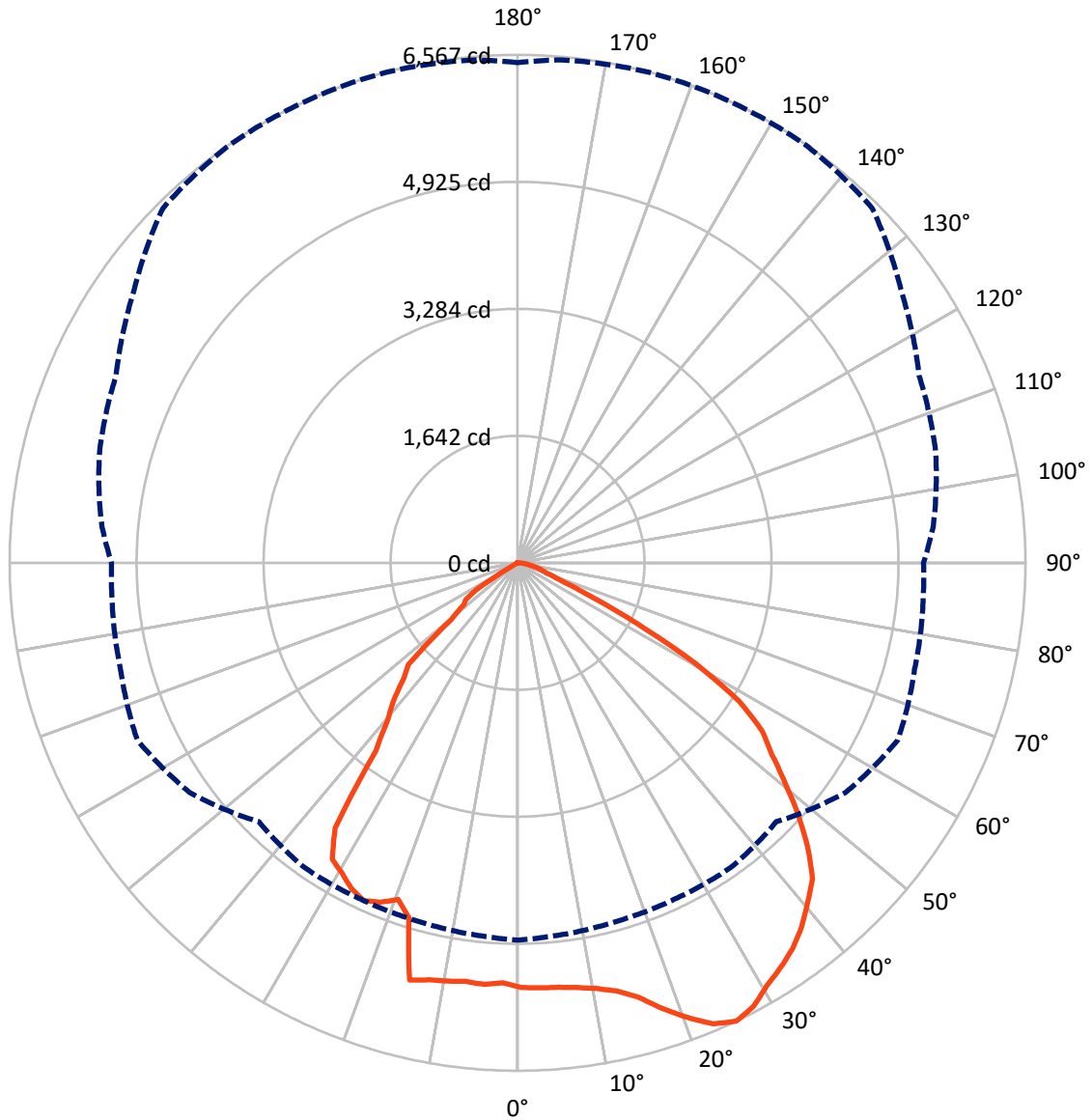
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7877.1	0.0	7877.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	4846.3	0.0	4846.3
	% Fixture	38.1	0.0	38.1
Total	Lumens	12723.4	0.0	12723.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.7	4.1
10°-20°	1608.2	12.6
20°-30°	2542.5	20.0
30°-40°	2872.0	22.6
40°-50°	2689.6	21.1
50°-60°	1854.3	14.6
60°-70°	498.2	3.9
70°-80°	103.8	0.8
80°-90°	28.1	0.2
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°	12723.4	100.0
0°-180°	12723.4	100.0

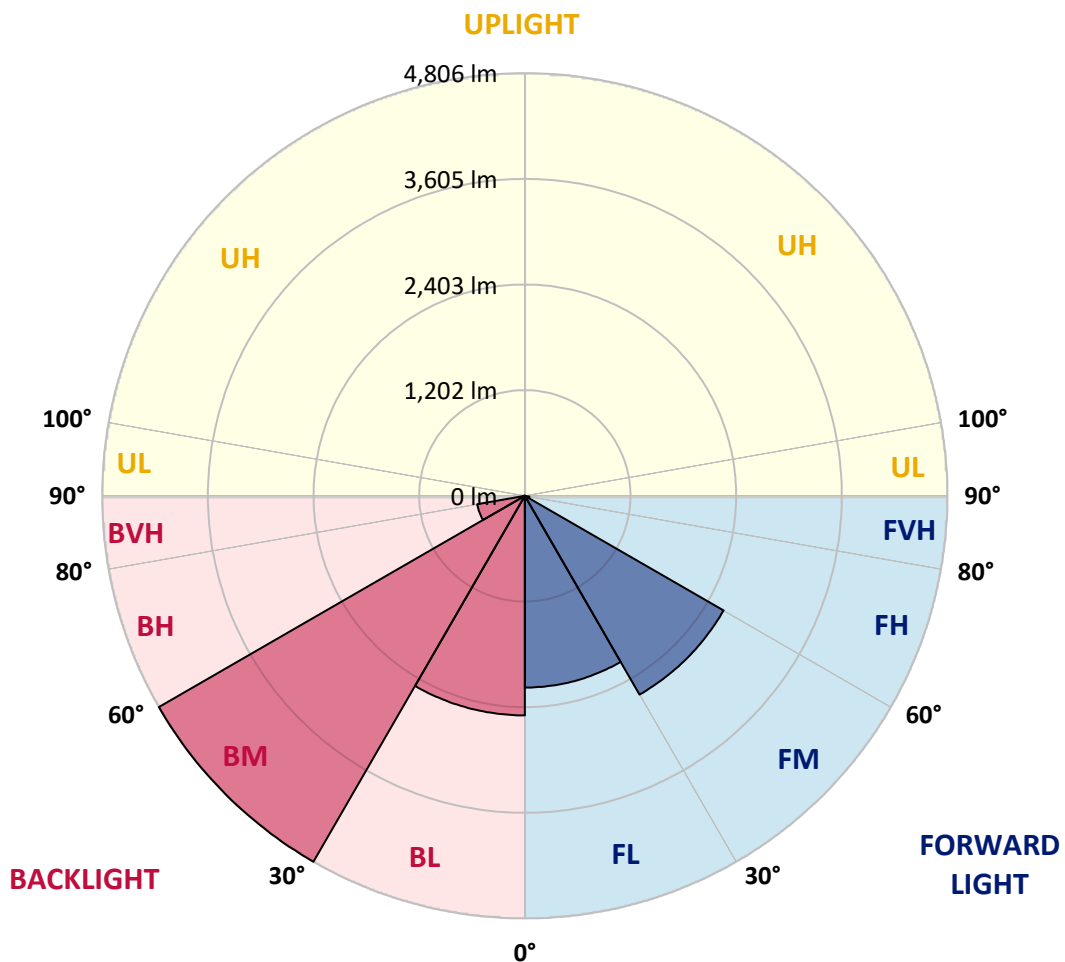


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2180.4	17.1			
FM (30°-60°)	2609.9	20.5			
FH (60°-80°)	52.3	0.4			G0/660
FVH (80°-90°)	3.8	0.0			G0/10
BL (0°-30°)	2497.0	19.6	B3/2500		
BM (30°-60°)	4806.1	37.8	B3/5000		
BH (60°-80°)	549.7	4.3	B2/1000		G2/1000
BVH (80°-90°)	24.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5489.9	5489.9	5489.9	5489.9	5489.9	5489.9	5489.9	5489.9	5489.9	5489.9
2.5°	5514.2	5478.7	5445.1	5433.8	5480.6	5531.1	5499.3	5501.1	5489.9	5510.5
5°	5555.4	5506.8	5484.3	5467.5	5475.0	5527.3	5482.4	5499.3	5480.6	5504.9
7.5°	5540.4	5506.8	5484.3	5452.5	5476.8	5538.5	5495.5	5497.4	5488.1	5510.5
10°	5531.1	5506.8	5478.7	5482.4	5510.5	5562.9	5529.2	5547.9	5534.8	5547.9
12.5°	5553.5	5527.3	5512.4	5512.4	5536.7	5596.5	5579.7	5596.5	5590.9	5602.1
15°	5342.2	5366.5	5508.6	5572.2	5620.8	5680.7	5673.2	5690.0	5693.7	5710.6
17.5°	4506.4	4482.1	4470.9	4798.1	5667.6	5852.7	5847.1	5845.2	5826.5	5813.4
20°	4616.7	4607.4	4594.3	4618.6	4715.8	5942.4	5979.8	5749.8	5682.5	5676.9
22.5°	4792.5	4777.5	4728.9	4730.8	4760.7	5166.4	5794.7	5585.3	5562.9	5549.8
25°	4878.5	4848.6	4809.3	4798.1	4807.4	4732.6	5175.8	5424.5	5314.2	5263.7
27.5°	4727.0	4728.9	4697.1	4727.0	4691.5	4354.9	4166.1	5110.3	5106.6	5084.2
30°	4613.0	4607.4	4570.0	4607.4	4362.4	3986.6	3906.2	4766.3	4727.0	4697.1
32.5°	4263.3	4267.0	4375.5	4521.3	4119.3	3822.0	3578.9	4257.7	4629.8	4613.0
35°	3049.8	3057.2	3442.4	4162.3	3751.0	3494.8	3476.1	3679.9	4476.5	4483.9
37.5°	2935.7	2935.7	2926.3	3044.1	3461.1	3362.0	3399.4	3378.8	4100.6	4119.3
40°	2853.4	2836.6	2823.5	2638.4	2406.5	3268.5	3294.7	3201.2	3876.2	3880.0
42.5°	2754.3	2735.6	2739.4	2397.2	2154.1	3036.7	2963.7	2838.5	3502.3	3506.0
45°	2572.9	2604.7	2627.2	2098.0	2079.3	2169.0	2733.7	2655.2	3249.8	3319.0
47.5°	1308.9	1337.0	2051.2	1929.7	1972.7	1927.8	2309.3	2311.2	2703.8	2933.8
50°	1187.4	1179.9	1181.8	1125.7	1821.3	1559.5	1669.8	2118.6	2165.3	2494.4
52.5°	1107.0	1105.1	991.0	880.7	1144.4	1372.5	1211.7	1533.3	1610.0	2112.9
55°	819.0	878.8	781.6	828.4	716.2	1099.5	1093.9	1383.7	1409.9	1694.1
57.5°	7.5	9.3	22.4	630.1	495.5	549.7	755.4	944.3	991.0	1320.1
60°	1.9	3.7	9.3	18.7	321.6	338.4	504.9	546.0	615.2	787.2
62.5°	0.0	0.0	3.7	9.3	16.8	138.4	160.8	175.8	271.1	402.0
65°	0.0	0.0	1.9	5.6	9.3	22.4	39.3	82.3	117.8	145.8
67.5°	0.0	0.0	1.9	3.7	7.5	11.2	22.4	31.8	50.5	86.0
70°	0.0	0.0	1.9	3.7	5.6	9.3	15.0	22.4	29.9	43.0
72.5°	0.0	0.0	1.9	3.7	3.7	11.2	11.2	16.8	22.4	28.0
75°	0.0	0.0	1.9	1.9	3.7	7.5	11.2	13.1	15.0	22.4
77.5°	0.0	0.0	1.9	3.7	5.6	7.5	9.3	15.0	13.1	13.1
80°	0.0	0.0	1.9	5.6	5.6	9.3	11.2	15.0	9.3	9.3
82.5°	0.0	0.0	1.9	7.5	5.6	18.7	18.7	20.6	7.5	7.5
85°	0.0	0.0	5.6	3.7	11.2	18.7	16.8	11.2	9.3	5.6
87.5°	0.0	0.0	1.9	1.9	3.7	5.6	13.1	11.2	3.7	3.7
90°	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°
5489.9	0°	5489.9	5489.9	5489.9	5489.9	5489.9	5489.9	5489.9	5489.9	5489.9
5456.3	2.5°	5531.1	5506.8	5557.2	5551.6	5527.3	5516.1	5503.0	5491.8	5409.5
5460.0	5°	5532.9	5495.5	5557.2	5546.0	5542.3	5523.6	5512.4	5529.2	5454.4
5475.0	7.5°	5532.9	5495.5	5562.9	5566.6	5561.0	5546.0	5544.2	5555.4	5493.7
5501.1	10°	5570.3	5555.4	5611.5	5617.1	5609.6	5605.9	5596.5	5589.0	5523.6
5590.9	12.5°	5648.9	5618.9	5682.5	5699.4	5693.7	5703.1	5680.7	5691.9	5624.6
5682.5	15°	5744.2	5746.1	5794.7	5832.1	5828.4	5858.3	5824.6	5854.6	5805.9
5787.2	17.5°	5890.1	5910.6	5979.8	6035.9	6056.5	6078.9	6056.5	6065.8	5996.7
5671.3	20°	5736.8	5813.4	6146.3	6249.1	6292.1	6312.7	6275.3	6286.5	6217.3
5529.2	22.5°	5598.4	5697.5	5992.9	6314.5	6447.3	6488.4	6475.3	6473.5	6447.3
5248.7	25°	5394.6	5594.6	5727.4	6067.7	6484.7	6559.5	6567.0	6565.1	6525.8
5076.7	27.5°	5144.0	5188.9	5532.9	5740.5	6222.9	6507.1	6495.9	6441.7	6389.3
4719.5	30°	4824.3	5028.1	5183.3	5514.2	5884.5	6346.3	6346.3	6305.2	6251.0
4592.4	32.5°	4661.6	4925.2	5069.2	5188.9	5504.9	6166.8	6241.6	6198.6	6155.6
4493.3	35°	4575.6	4614.8	4951.4	5059.9	5327.3	5820.9	6123.8	6080.8	6049.0
4229.6	37.5°	4386.7	4478.3	4635.4	4925.2	5007.5	5538.5	5966.7	5944.3	5906.9
3887.5	40°	3966.0	4210.9	4452.2	4727.0	4813.0	5175.8	5776.0	5785.4	5734.9
3522.8	42.5°	3717.3	3883.7	4261.4	4446.5	4678.4	4942.1	5590.9	5605.9	5570.3
3337.7	45°	3425.6	3610.7	3876.2	4212.8	4528.8	4620.4	5263.7	5420.7	5390.8
2969.3	47.5°	3158.2	3307.8	3633.2	3973.5	4323.1	4310.0	4887.8	5183.3	5142.1
2687.0	50°	2778.6	3040.4	3193.7	3506.0	4027.7	4063.2	4487.7	4904.7	4871.0
2283.1	52.5°	2342.9	2672.0	2965.6	3251.7	3728.5	3812.7	4115.6	4620.4	4598.0
1744.6	55°	2047.5	2286.8	2617.8	2847.8	3365.8	3590.1	3837.0	4349.3	4338.1
1434.2	57.5°	1456.6	1918.5	2191.5	2513.1	2786.1	3191.9	3375.1	3797.7	3693.0
794.7	60°	987.3	1204.2	1537.0	1883.0	2066.2	2472.0	2642.1	2980.6	2952.5
474.9	62.5°	521.7	721.8	959.2	1133.1	1265.9	1660.4	1731.5	2096.1	2086.8
190.7	65°	230.0	304.8	519.8	609.6	746.1	929.3	991.0	1121.9	1090.1
93.5	67.5°	119.7	181.4	293.6	360.9	454.4	523.6	574.0	615.2	641.4
61.7	70°	72.9	132.8	181.4	250.6	312.3	368.4	407.6	463.7	497.4
31.8	72.5°	54.2	84.1	125.3	192.6	226.3	291.7	331.0	372.1	402.0
26.2	75°	29.9	56.1	101.0	151.5	181.4	237.5	273.0	301.0	310.4
15.0	77.5°	18.7	43.0	84.1	117.8	142.1	192.6	183.2	209.4	231.9
11.2	80°	13.1	31.8	65.4	97.2	99.1	123.4	145.8	168.3	183.2
7.5	82.5°	9.3	26.2	48.6	74.8	65.4	95.4	114.1	130.9	95.4
5.6	85°	7.5	18.7	24.3	44.9	37.4	67.3	58.0	56.1	37.4
3.7	87.5°	5.6	9.3	16.8	20.6	15.0	15.0	18.7	22.4	18.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5489.9
5353.4
5390.8
5422.6
5469.4
5564.7
5725.5
5936.8
6168.7
6363.2
6466.0
6348.2
6230.4
6120.1
6004.1
5869.5
5723.7
5566.6
5394.6
5172.1
4876.6
4613.0
4351.2
3681.8
2954.4
2088.6
1077.0
641.4
499.3
407.6
304.8
235.6
185.1
69.2
37.4
18.7
0.0

(END OF REPORT)