

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: P638870

Luminaire Tested: **EPH-VN-03-E-935-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638870
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-935-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13200.5 lumens
Efficiency: N/A
Efficacy: 56.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

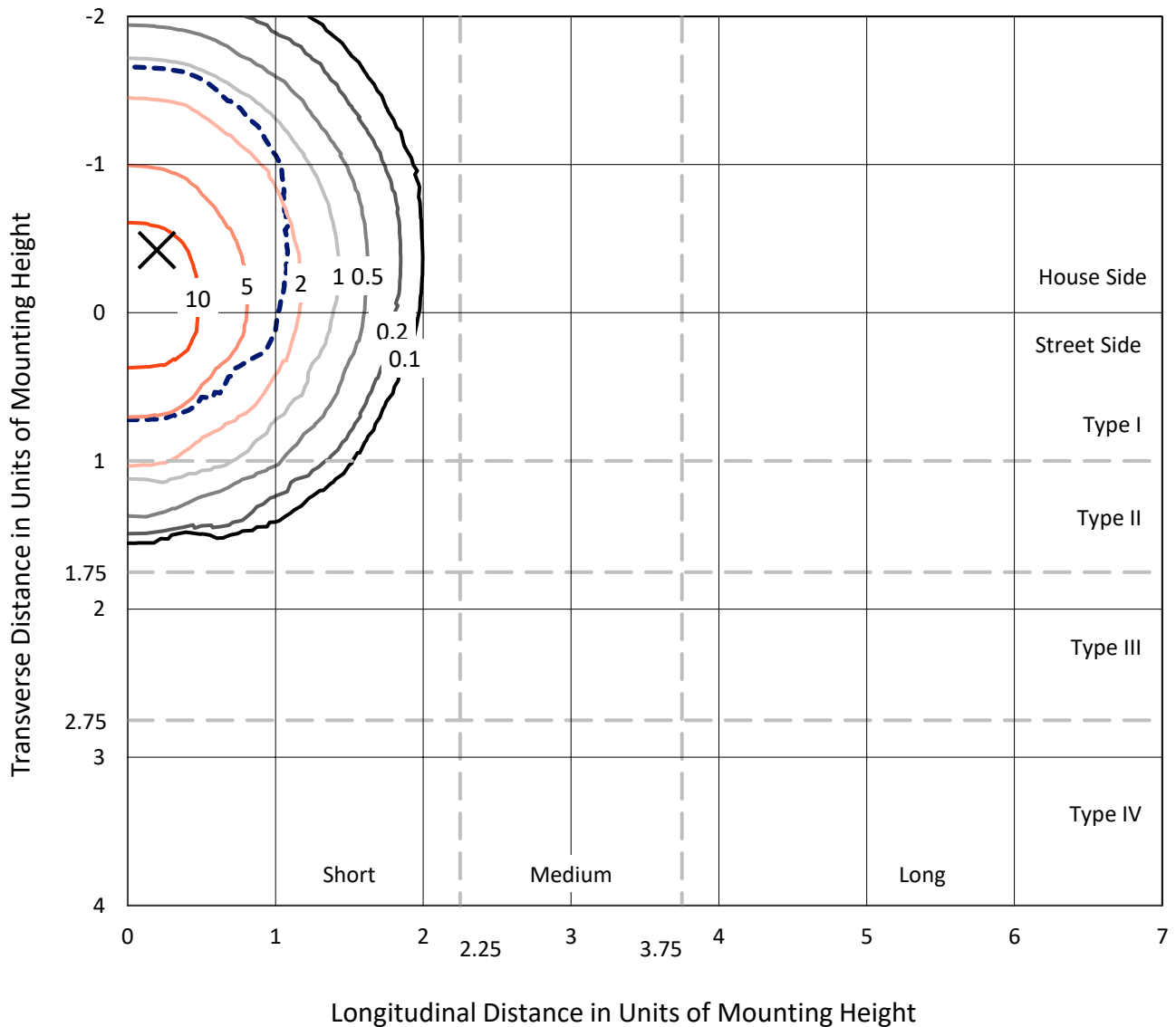
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638870
 CATALOG NUMBER: EPH-VN-03-E-935-U-LAM-VI

Iso-Footcandle Lines of Horizontal Illumination

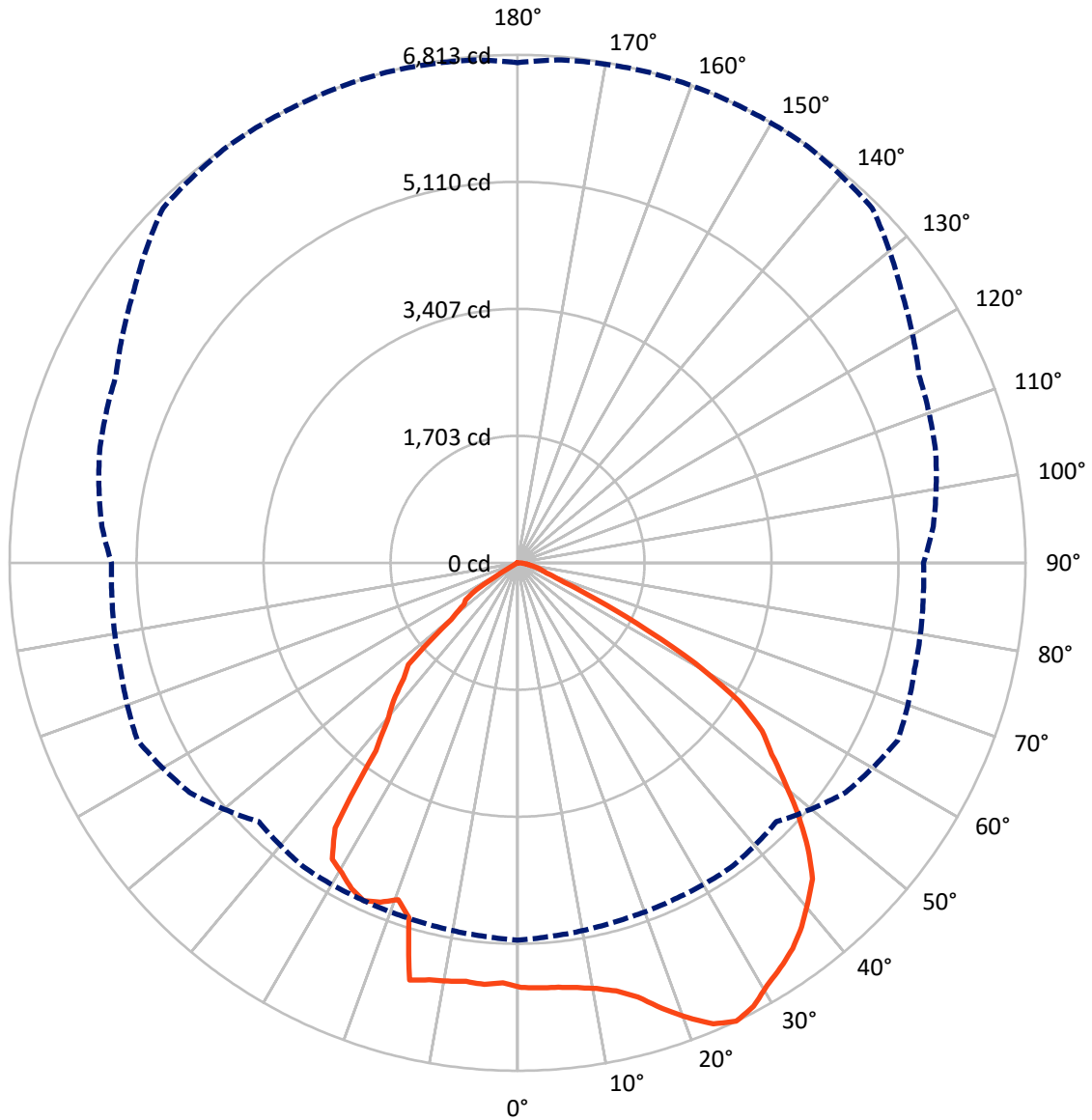
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.2 fc
 Type I - Short - N/A

REPORT NUMBER: P638870
CATALOG NUMBER: EPH-VN-03-E-935-U-LAM-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638870
 CATALOG NUMBER: EPH-VN-03-E-935-U-LAM-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8172.5	0.0	8172.5
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	5028.1	0.0	5028.1
	% Fixture	38.1	0.0	38.1
Total	Lumens	13200.5	0.0	13200.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.4	4.1
10°-20°	1668.5	12.6
20°-30°	2637.8	20.0
30°-40°	2979.7	22.6
40°-50°	2790.5	21.1
50°-60°	1923.9	14.6
60°-70°	516.9	3.9
70°-80°	107.7	0.8
80°-90°	29.1	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°	13200.5	100.0
0°-180°	13200.5	100.0

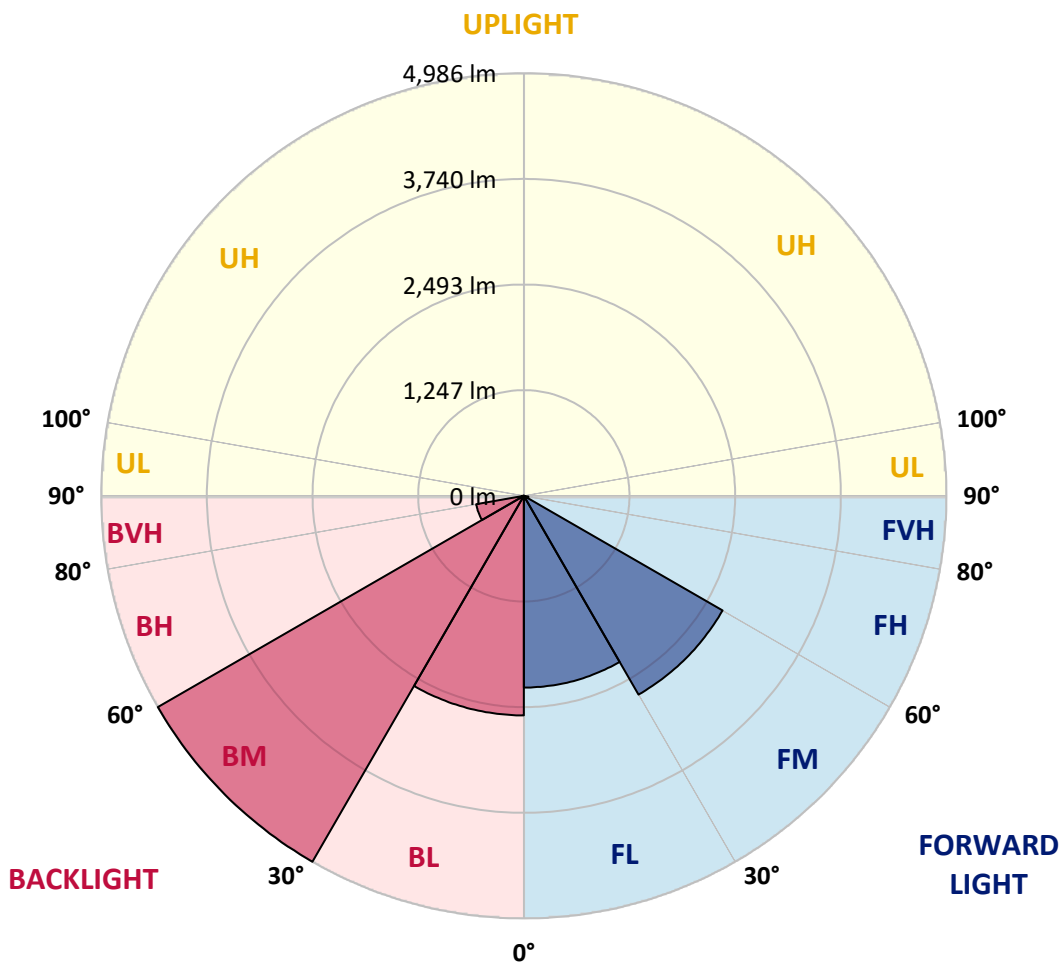


REPORT NUMBER: P638870
 CATALOG NUMBER: EPH-VN-03-E-935-U-LAM-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2262.2	17.1			
FM (30°-60°)	2707.7	20.5			
FH (60°-80°)	54.3	0.4			G0/660
FVH (80°-90°)	3.9	0.0			G0/10
BL (0°-30°)	2590.6	19.6	B4/5000		
BM (30°-60°)	4986.3	37.8	B3/5000		
BH (60°-80°)	570.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	25.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type I Short





REPORT NUMBER: P638870
 CATALOG NUMBER: EPH-VN-03-E-935-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5695.8	5695.8	5695.8	5695.8	5695.8	5695.8	5695.8	5695.8	5695.8	5695.8
2.5°	5721.0	5684.2	5649.2	5637.6	5686.1	5738.5	5705.5	5707.4	5695.8	5717.1
5°	5763.7	5713.3	5690.0	5672.5	5680.3	5734.6	5688.0	5705.5	5686.1	5711.3
7.5°	5748.2	5713.3	5690.0	5657.0	5682.2	5746.2	5701.6	5703.6	5693.9	5717.1
10°	5738.5	5713.3	5684.2	5688.0	5717.1	5771.5	5736.5	5755.9	5742.4	5755.9
12.5°	5761.8	5734.6	5719.1	5719.1	5744.3	5806.4	5788.9	5806.4	5800.6	5812.2
15°	5542.5	5567.8	5715.2	5781.2	5831.6	5893.7	5885.9	5903.4	5907.3	5924.7
17.5°	4675.4	4650.1	4638.5	4978.0	5880.1	6072.2	6066.3	6064.4	6045.0	6031.4
20°	4789.8	4780.1	4766.5	4791.8	4892.6	6165.3	6204.1	5965.5	5895.6	5889.8
22.5°	4972.2	4956.7	4906.2	4908.2	4939.2	5360.2	6012.0	5794.7	5771.5	5757.9
25°	5061.4	5030.4	4989.6	4978.0	4987.7	4910.1	5369.9	5627.9	5513.4	5461.1
27.5°	4904.3	4906.2	4873.2	4904.3	4867.4	4518.2	4322.3	5302.0	5298.1	5274.8
30°	4785.9	4780.1	4741.3	4780.1	4526.0	4136.1	4052.6	4945.0	4904.3	4873.2
32.5°	4423.2	4427.0	4539.6	4690.9	4273.8	3965.3	3713.1	4417.4	4803.4	4785.9
35°	3164.1	3171.9	3571.5	4318.4	3891.6	3625.8	3606.4	3817.9	4644.3	4652.1
37.5°	3045.8	3045.8	3036.1	3158.3	3590.9	3488.1	3526.9	3505.6	4254.4	4273.8
40°	2960.4	2943.0	2929.4	2737.3	2496.8	3391.1	3418.3	3321.3	4021.6	4025.5
42.5°	2857.6	2838.2	2842.1	2487.1	2234.9	3150.5	3074.9	2944.9	3633.6	3637.5
45°	2669.4	2702.4	2725.7	2176.7	2157.3	2250.4	2836.3	2754.8	3371.7	3443.5
47.5°	1358.0	1387.1	2128.2	2002.1	2046.7	2000.1	2395.9	2397.8	2805.2	3043.8
50°	1231.9	1224.1	1226.1	1167.9	1889.5	1617.9	1732.4	2198.0	2246.5	2587.9
52.5°	1148.5	1146.5	1028.2	913.7	1187.3	1424.0	1257.1	1590.8	1670.3	2192.2
55°	849.7	911.8	810.9	859.4	743.0	1140.7	1134.9	1435.6	1462.8	1757.6
57.5°	7.8	9.7	23.3	653.8	514.1	570.4	783.8	979.7	1028.2	1369.6
60°	1.9	3.9	9.7	19.4	333.7	351.1	523.8	566.5	638.3	816.7
62.5°	0.0	0.0	3.9	9.7	17.5	143.6	166.8	182.4	281.3	417.1
65°	0.0	0.0	1.9	5.8	9.7	23.3	40.7	85.4	122.2	151.3
67.5°	0.0	0.0	1.9	3.9	7.8	11.6	23.3	33.0	52.4	89.2
70°	0.0	0.0	1.9	3.9	5.8	9.7	15.5	23.3	31.0	44.6
72.5°	0.0	0.0	1.9	3.9	3.9	11.6	11.6	17.5	23.3	29.1
75°	0.0	0.0	1.9	1.9	3.9	7.8	11.6	13.6	15.5	23.3
77.5°	0.0	0.0	1.9	3.9	5.8	7.8	9.7	15.5	13.6	13.6
80°	0.0	0.0	1.9	5.8	5.8	9.7	11.6	15.5	9.7	9.7
82.5°	0.0	0.0	1.9	7.8	5.8	19.4	19.4	21.3	7.8	7.8
85°	0.0	0.0	5.8	3.9	11.6	19.4	17.5	11.6	9.7	5.8
87.5°	0.0	0.0	1.9	1.9	3.9	5.8	13.6	11.6	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638870
 CATALOG NUMBER: EPH-VN-03-E-935-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
5695.8	0°	5695.8	5695.8	5695.8	5695.8	5695.8	5695.8	5695.8	5695.8	5695.8
5660.9	2.5°	5738.5	5713.3	5765.6	5759.8	5734.6	5723.0	5709.4	5697.7	5612.4
5664.8	5°	5740.4	5701.6	5765.6	5754.0	5750.1	5730.7	5719.1	5736.5	5658.9
5680.3	7.5°	5740.4	5701.6	5771.5	5775.3	5769.5	5754.0	5752.1	5763.7	5699.7
5707.4	10°	5779.2	5763.7	5821.9	5827.7	5820.0	5816.1	5806.4	5798.6	5730.7
5800.6	12.5°	5860.7	5829.7	5895.6	5913.1	5907.3	5917.0	5893.7	5905.3	5835.5
5895.6	15°	5959.6	5961.6	6012.0	6050.8	6046.9	6078.0	6043.1	6074.1	6023.7
6004.3	17.5°	6111.0	6132.3	6204.1	6262.3	6283.6	6306.9	6283.6	6293.3	6221.5
5884.0	20°	5951.9	6031.4	6376.7	6483.4	6528.1	6549.4	6510.6	6522.2	6450.5
5736.5	22.5°	5808.3	5911.1	6217.7	6551.3	6689.1	6731.8	6718.2	6716.2	6689.1
5445.5	25°	5596.9	5804.4	5942.2	6295.3	6727.9	6805.5	6813.2	6811.3	6770.6
5267.1	27.5°	5336.9	5383.5	5740.4	5955.8	6456.3	6751.2	6739.5	6683.3	6628.9
4896.5	30°	5005.2	5216.6	5377.6	5721.0	6105.1	6584.3	6584.3	6541.6	6485.4
4764.6	32.5°	4836.4	5109.9	5259.3	5383.5	5711.3	6398.1	6475.7	6431.1	6386.4
4661.8	35°	4747.1	4787.9	5137.1	5249.6	5527.0	6039.2	6353.5	6308.8	6275.9
4388.3	37.5°	4551.2	4646.3	4809.2	5109.9	5195.3	5746.2	6190.5	6167.2	6128.4
4033.2	40°	4114.7	4368.9	4619.1	4904.3	4993.5	5369.9	5992.6	6002.3	5949.9
3654.9	42.5°	3856.7	4029.4	4421.2	4613.3	4853.8	5127.4	5800.6	5816.1	5779.2
3462.9	45°	3554.1	3746.1	4021.6	4370.8	4698.6	4793.7	5461.1	5624.0	5593.0
3080.7	47.5°	3276.6	3431.8	3769.4	4122.5	4485.2	4471.7	5071.1	5377.6	5335.0
2787.8	50°	2882.8	3154.4	3313.5	3637.5	4178.7	4215.6	4656.0	5088.6	5053.7
2368.7	52.5°	2430.8	2772.2	3076.8	3373.6	3868.3	3955.6	4269.9	4793.7	4770.4
1810.0	55°	2124.3	2372.6	2716.0	2954.6	3492.0	3724.8	3980.9	4512.4	4500.8
1488.0	57.5°	1511.2	1990.4	2273.7	2607.3	2890.6	3311.6	3501.7	3940.1	3831.5
824.5	60°	1024.3	1249.4	1594.7	1953.6	2143.7	2564.7	2741.2	3092.3	3063.2
492.8	62.5°	541.3	748.8	995.2	1175.6	1313.4	1722.7	1796.4	2174.7	2165.0
197.9	65°	238.6	316.2	539.3	632.4	774.1	964.2	1028.2	1164.0	1131.0
97.0	67.5°	124.2	188.2	304.6	374.4	471.4	543.2	595.6	638.3	665.4
64.0	70°	75.7	137.7	188.2	260.0	324.0	382.2	422.9	481.1	516.0
33.0	72.5°	56.3	87.3	130.0	199.8	234.7	302.6	343.4	386.1	417.1
27.2	75°	31.0	58.2	104.8	157.1	188.2	246.4	283.2	312.3	322.0
15.5	77.5°	19.4	44.6	87.3	122.2	147.4	199.8	190.1	217.3	240.6
11.6	80°	13.6	33.0	67.9	100.9	102.8	128.0	151.3	174.6	190.1
7.8	82.5°	9.7	27.2	50.4	77.6	67.9	98.9	118.3	135.8	98.9
5.8	85°	7.8	19.4	25.2	46.6	38.8	69.8	60.1	58.2	38.8
3.9	87.5°	5.8	9.7	17.5	21.3	15.5	15.5	19.4	23.3	19.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5695.8
5554.2
5593.0
5626.0
5674.5
5773.4
5940.2
6159.5
6400.0
6601.8
6708.5
6586.3
6464.0
6349.6
6229.3
6089.6
5938.3
5775.3
5596.9
5366.0
5059.5
4785.9
4514.3
3819.8
3065.2
2167.0
1117.4
665.4
518.0
422.9
316.2
244.4
192.1
71.8
38.8
19.4
0.0

(END OF REPORT)