

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: P638815

Luminaire Tested: **EPH-VN-08-E-930-U-77-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638815
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-930-U-77-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens and Visor
Light Source: (128) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33704.1 lumens
Efficiency: N/A
Efficacy: 53.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

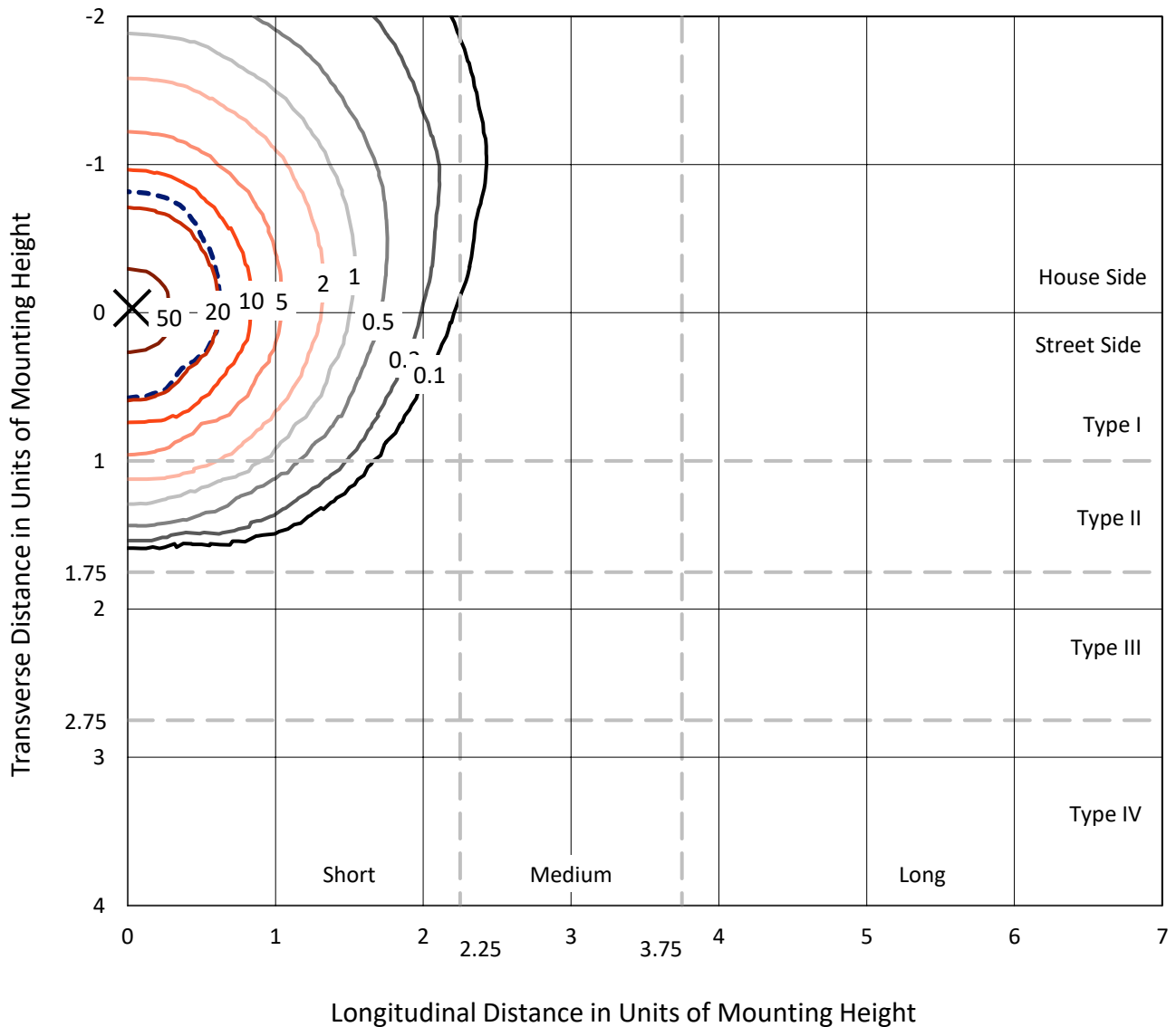
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

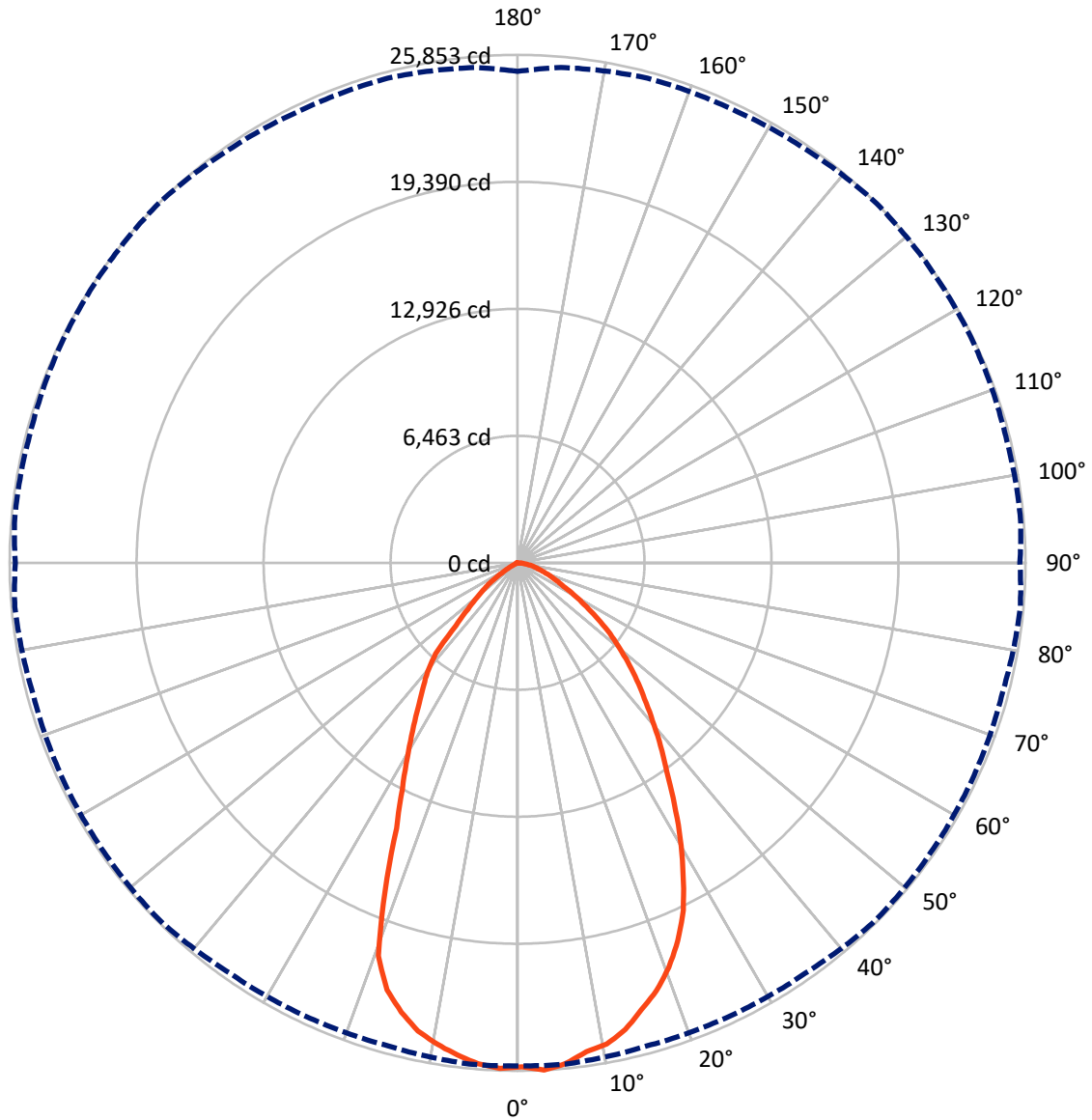
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 64.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19961.3	0.0	19961.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	13742.8	0.0	13742.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	33704.1	0.0	33704.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2405.4	7.1
10°-20°	6450.4	19.1
20°-30°	7866.6	23.3
30°-40°	7182.1	21.3
40°-50°	5190.3	15.4
50°-60°	2834.0	8.4
60°-70°	1171.7	3.5
70°-80°	474.6	1.4
80°-90°	129.1	0.4
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°	33704.1	100.0
0°-180°	33704.1	100.0

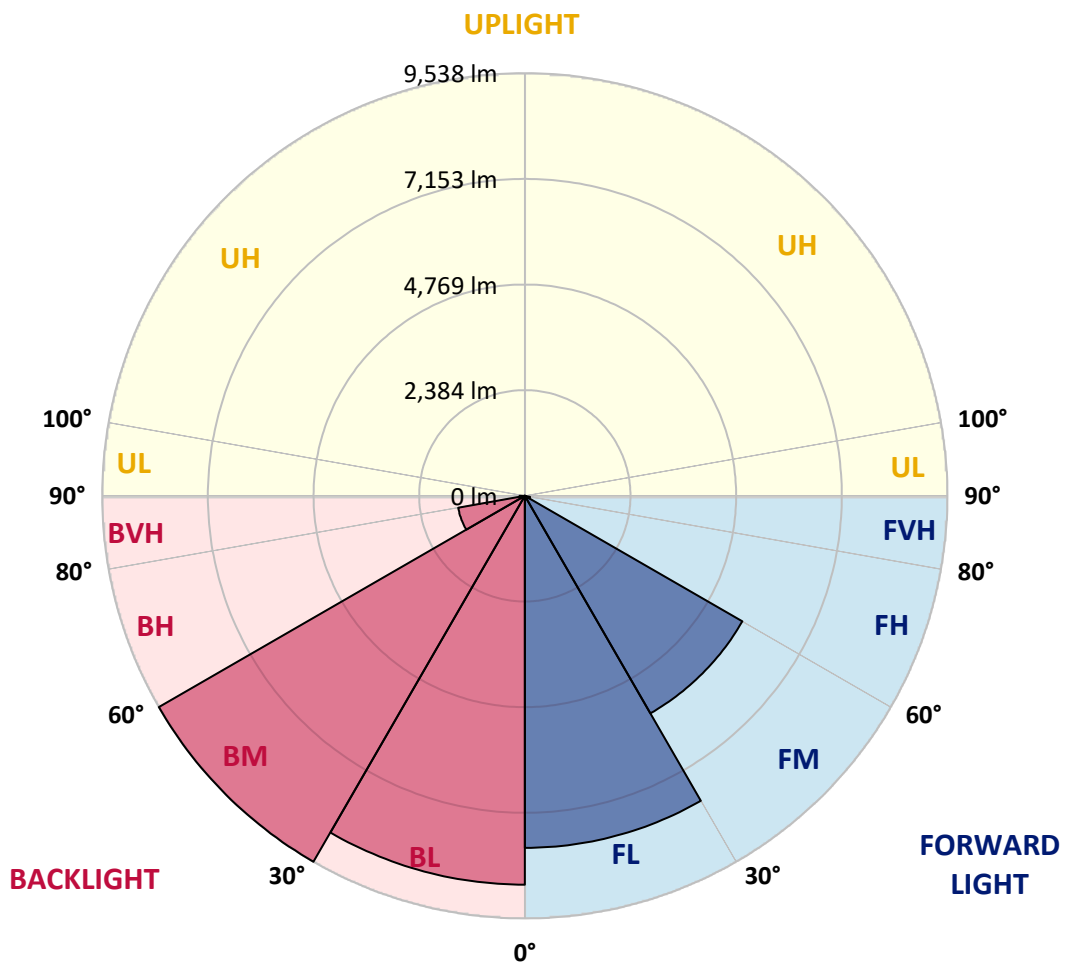


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7945.3	23.6			
FM (30°-60°)	5668.4	16.8			
FH (60°-80°)	118.8	0.4			G0/660
FVH (80°-90°)	10.3	0.0			G1/100
BL (0°-30°)	8777.0	26.0	B5		
BM (30°-60°)	9538.0	28.3	B5		
BH (60°-80°)	1527.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	118.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	25648.7	25648.7	25648.7	25648.7	25648.7	25648.7	25648.7	25648.7	25648.7	25648.7
2.5°	25601.3	25634.5	25454.1	25473.1	25506.3	25748.4	25686.7	25629.7	25549.1	25686.7
5°	25568.0	25587.0	25397.2	25330.7	25359.2	25577.5	25378.2	25378.2	25359.2	25335.5
7.5°	25311.7	25321.2	25174.1	25055.4	25131.4	25231.1	25083.9	25155.1	25050.7	25131.4
10°	24927.3	24865.6	24690.0	24656.8	24742.2	24837.1	24737.4	24803.9	24709.0	24770.7
12.5°	24362.5	24267.6	24125.2	24082.5	24229.6	24357.7	24277.1	24239.1	24115.7	24267.6
15°	22184.0	22112.8	22435.5	23000.3	23508.2	23617.3	23531.9	23569.9	23313.6	23356.3
17.5°	18258.8	18125.9	18472.4	19810.8	21718.8	22725.0	22649.1	22402.3	22022.6	22108.0
20°	16592.9	16554.9	16516.9	16834.9	18168.6	21220.5	21324.9	20698.4	20157.3	20038.7
22.5°	15653.1	15638.9	15600.9	15672.1	16023.3	17983.5	19179.6	18600.5	18239.8	18206.6
25°	14794.1	14770.3	14656.4	14746.6	14746.6	14860.5	16393.5	16744.8	16426.8	16388.8
27.5°	13920.7	13878.0	13859.0	13901.8	13683.4	12914.5	13303.7	15017.1	14851.0	14860.5
30°	12976.2	12962.0	12909.8	13000.0	12326.0	11372.0	11125.2	13450.9	13484.1	13474.6
32.5°	11571.4	11633.1	11870.4	11970.0	10859.4	10071.5	9658.6	11637.8	12316.5	12302.3
35°	8405.6	8405.6	9179.2	10617.4	9516.2	8922.9	8699.9	9867.5	11163.2	11210.6
37.5°	6910.5	6934.3	7086.1	7741.1	8211.0	8002.2	7935.7	8305.9	9682.3	9758.3
40°	6217.6	6217.6	6217.6	5947.0	5932.8	7209.6	7171.6	7052.9	8362.9	8529.0
42.5°	5586.3	5600.6	5610.1	4926.6	4546.9	6231.8	6146.4	5966.0	7181.1	7375.7
45°	4936.1	4959.8	4988.3	4119.7	3953.6	4485.2	5201.9	5002.5	6013.5	6265.0
47.5°	3013.9	3051.8	3697.3	3493.2	3512.2	3460.0	4243.1	4209.9	4931.4	5287.3
50°	2036.1	2050.4	2112.1	2216.5	3013.9	2719.6	3004.4	3483.7	3744.8	4285.9
52.5°	1708.6	1732.4	1580.5	1438.1	1979.2	2126.3	2097.8	2586.7	2691.1	3360.3
55°	1200.8	1276.7	1205.5	1191.3	1124.9	1651.7	1590.0	1988.7	2055.1	2553.5
57.5°	123.4	142.4	246.8	887.5	735.7	935.0	1134.4	1457.1	1523.5	1884.3
60°	9.5	9.5	23.7	123.4	536.3	560.1	783.1	897.0	1025.2	1314.7
62.5°	0.0	4.7	9.5	19.0	85.4	299.0	393.9	469.9	617.0	849.6
65°	0.0	0.0	4.7	14.2	19.0	113.9	151.9	246.8	337.0	526.8
67.5°	0.0	0.0	4.7	9.5	14.2	28.5	52.2	90.2	180.4	299.0
70°	0.0	0.0	4.7	9.5	14.2	23.7	38.0	57.0	80.7	161.4
72.5°	0.0	0.0	4.7	4.7	9.5	23.7	28.5	38.0	57.0	80.7
75°	0.0	0.0	4.7	4.7	14.2	28.5	23.7	28.5	38.0	52.2
77.5°	0.0	0.0	4.7	9.5	14.2	28.5	23.7	28.5	28.5	33.2
80°	0.0	0.0	4.7	9.5	19.0	33.2	28.5	28.5	23.7	23.7
82.5°	0.0	0.0	4.7	14.2	19.0	42.7	42.7	38.0	19.0	14.2
85°	0.0	0.0	9.5	19.0	28.5	47.5	47.5	38.0	14.2	9.5
87.5°	0.0	0.0	9.5	14.2	23.7	33.2	47.5	38.0	14.2	4.7
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°
25648.7	0°	25648.7	25648.7	25648.7	25648.7	25648.7	25648.7	25648.7	25648.7	25648.7
25568.0	2.5°	25696.2	25667.7	25762.6	25800.6	25852.8	25653.5	25530.1	25534.8	25307.0
25278.5	5°	25430.4	25435.1	25558.5	25549.1	25601.3	25492.1	25444.6	25364.0	25164.6
24913.1	7.5°	25093.4	25050.7	25169.4	25259.5	25126.6	25202.6	25093.4	25131.4	25012.7
24590.3	10°	24832.4	24732.7	24841.9	24903.6	24908.3	24832.4	24728.0	24628.3	24585.6
24087.2	12.5°	24253.3	24125.2	24310.3	24395.7	24381.5	24234.3	24115.7	24139.4	24001.8
23204.4	15°	23456.0	23460.7	23593.6	23674.3	23598.3	23565.1	23574.6	23517.7	23399.0
21984.6	17.5°	22236.2	22307.4	22658.6	22853.2	22895.9	22829.5	22796.2	22729.8	22611.1
20038.7	20°	20204.8	20631.9	21258.4	21861.2	21979.9	21960.9	21842.2	21813.8	21747.3
18111.7	22.5°	18420.2	18738.2	19464.4	20404.1	20888.2	20935.7	20793.3	20750.6	20679.4
16388.8	25°	16573.9	16915.6	17570.6	18591.1	19592.5	19796.6	19772.9	19644.7	19568.8
14860.5	27.5°	15017.1	15358.9	15952.1	16872.9	17945.6	18600.5	18662.2	18458.2	18453.4
13498.3	30°	13612.2	14082.1	14533.0	15282.9	16322.3	17304.8	17409.2	17266.9	17281.1
12250.1	32.5°	12511.1	12900.3	13284.7	13787.9	14651.7	15795.5	16203.7	16070.8	16018.6
11210.6	35°	11386.3	11652.0	12046.0	12506.4	13094.9	14229.3	14936.4	14836.8	14784.6
9805.7	37.5°	10104.8	10560.4	10845.2	11362.5	11822.9	12724.7	13721.4	13707.2	13598.0
8609.7	40°	8790.1	9269.4	9701.3	10223.4	10579.4	11296.1	12401.9	12397.2	12411.4
7370.9	42.5°	7598.7	8040.1	8562.2	9131.8	9473.5	9995.6	11182.2	11248.6	11329.3
6350.5	45°	6521.3	6920.0	7404.1	8097.1	8510.0	8809.0	9862.7	10166.5	10161.7
5439.2	47.5°	5553.1	5928.1	6336.2	7010.2	7537.0	7807.6	8680.9	9112.8	9084.3
4461.5	50°	4660.8	4993.1	5420.2	5909.1	6616.3	6853.6	7503.8	8073.4	8030.7
3554.9	52.5°	3749.5	4209.9	4570.6	5016.8	5761.9	5994.5	6497.6	7052.9	7019.7
2667.4	55°	2923.7	3369.8	3806.5	4190.9	4817.4	5163.9	5524.6	6094.2	6084.7
2088.3	57.5°	2211.8	2700.6	3113.5	3479.0	3977.4	4404.5	4694.0	5211.4	5277.8
1428.6	60°	1637.5	2012.4	2458.6	2866.7	3260.7	3702.1	3896.7	4404.5	4433.0
977.7	62.5°	1115.4	1528.3	1964.9	2335.2	2629.4	3085.1	3260.7	3678.3	3730.6
626.5	65°	773.6	1039.4	1537.8	1803.6	2164.3	2553.5	2729.1	3061.3	3165.7
360.7	67.5°	512.6	740.4	1200.8	1442.9	1798.8	2064.6	2287.7	2558.2	2672.1
227.8	70°	280.0	545.8	859.1	1139.1	1447.6	1703.9	1922.2	2140.6	2240.2
104.4	72.5°	189.8	365.5	598.0	901.8	1167.6	1419.1	1613.7	1775.1	1779.8
61.7	75°	94.9	246.8	455.6	697.7	911.3	1158.1	1333.7	1428.6	1314.7
38.0	77.5°	57.0	180.4	370.2	560.1	740.4	935.0	1034.7	1086.9	901.8
28.5	80°	33.2	128.1	289.5	446.1	512.6	688.2	783.1	797.4	602.8
19.0	82.5°	23.7	94.9	227.8	327.5	313.3	484.1	588.5	569.5	384.4
14.2	85°	14.2	66.4	142.4	204.1	189.8	318.0	341.7	351.2	223.1
9.5	87.5°	9.5	38.0	75.9	109.2	90.2	137.6	137.6	166.1	109.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
25648.7
25012.7
25117.1
24813.4
24395.7
23883.1
23280.3
22558.9
21595.4
20660.4
19488.1
18443.9
17209.9
16023.3
14713.4
13688.2
12411.4
11286.6
10171.2
9093.8
8068.6
7090.9
6108.4
5249.4
4475.7
3740.0
3142.0
2657.9
2202.3
1737.1
1229.3
868.6
564.8
356.0
204.1
94.9
0.0

(END OF REPORT)