

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: P638795

Luminaire Tested: **EPH-VN-07-E-740-U-77-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638795
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-07-E-740-U-77-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens and Visor
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43421.6 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

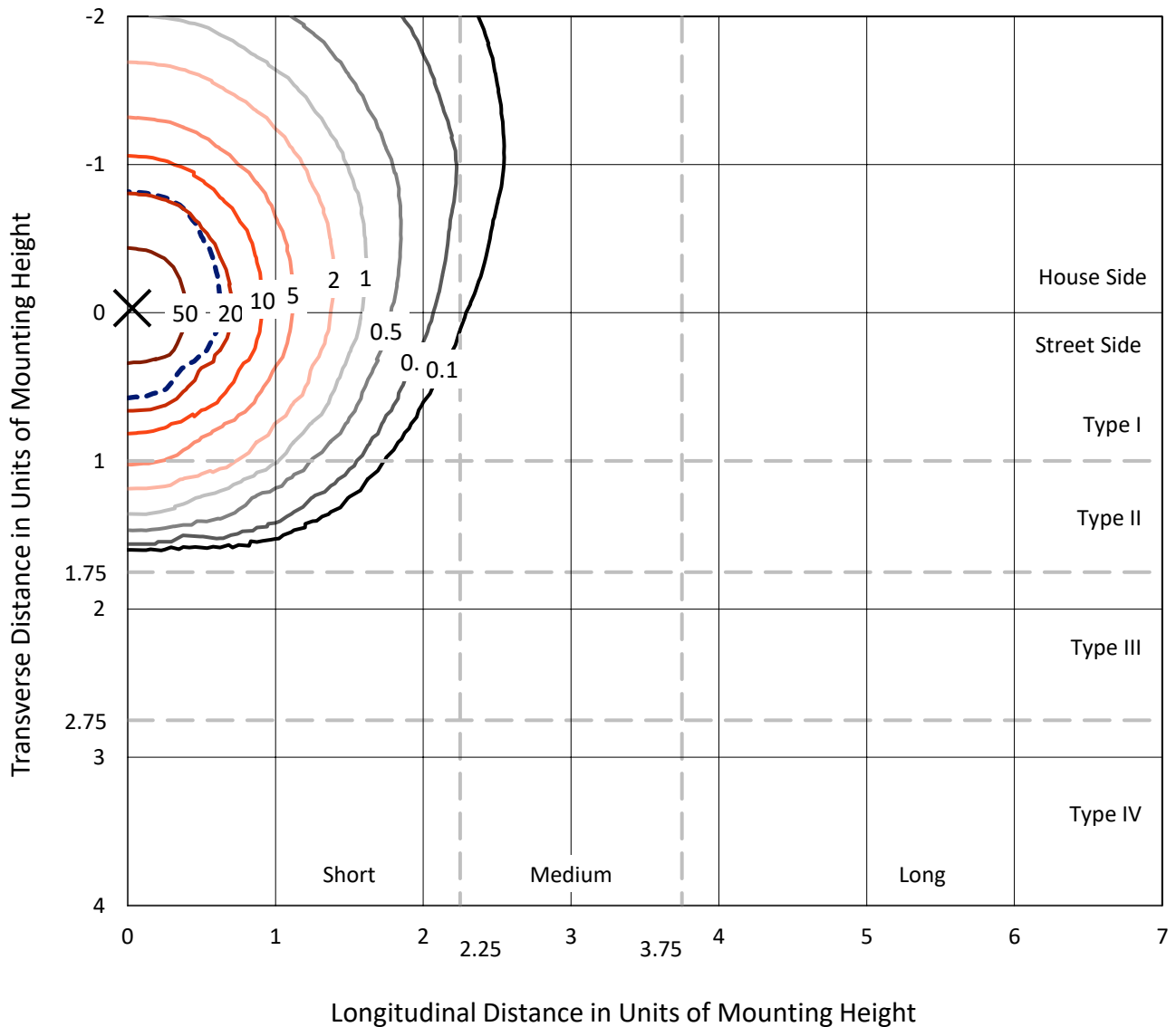
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

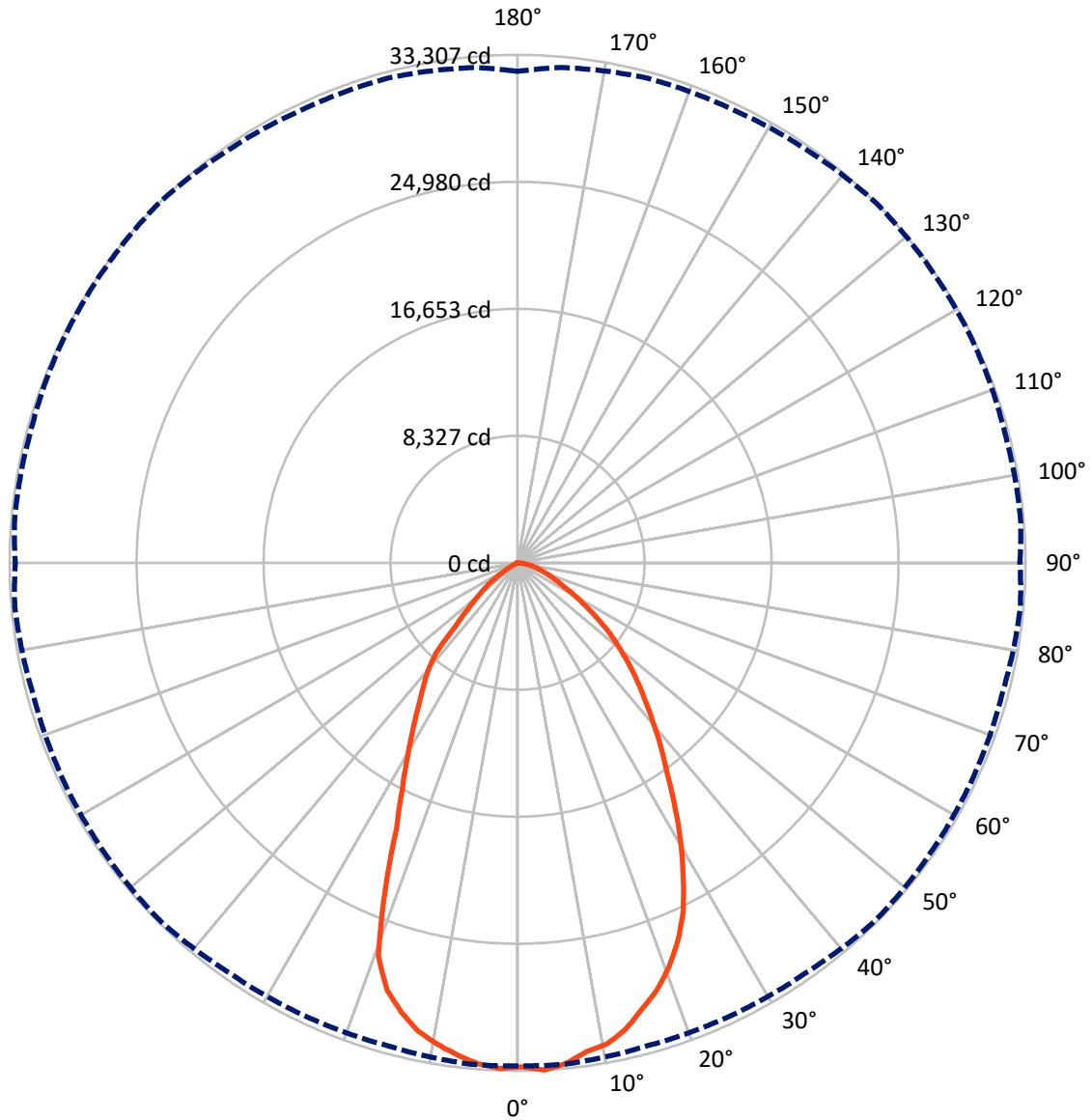
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 82.6 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	25716.5	0.0	25716.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	17705.1	0.0	17705.1
	% Fixture	40.8	0.0	40.8
Total	Lumens	43421.6	0.0	43421.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3099.0	7.1
10°-20°	8310.1	19.1
20°-30°	10134.6	23.3
30°-40°	9252.8	21.3
40°-50°	6686.8	15.4
50°-60°	3651.1	8.4
60°-70°	1509.6	3.5
70°-80°	611.4	1.4
80°-90°	166.3	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°	43421.6	100.0
0°-180°	43421.6	100.0

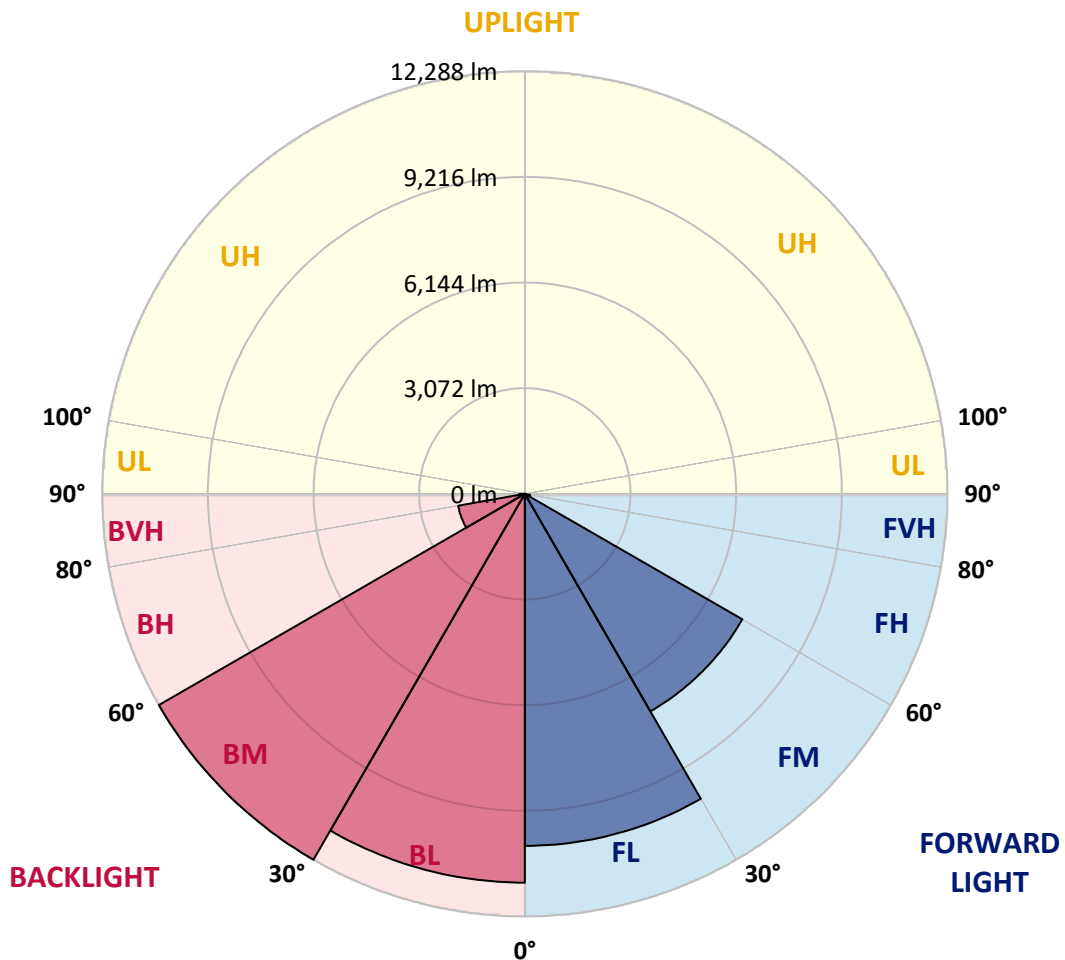


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10236.1	23.6			
FM (30°-60°)	7302.7	16.8			
FH (60°-80°)	153.0	0.4			G0/660
FVH (80°-90°)	13.3	0.0			G1/100
BL (0°-30°)	11307.6	26.0	B5		
BM (30°-60°)	12287.9	28.3	B5		
BH (60°-80°)	1968.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	153.0	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°	33043.7	33043.7	33043.7	33043.7	33043.7	33043.7	33043.7	33043.7	33043.7	33043.7
2.5°	32982.5	33025.3	32793.0	32817.4	32860.2	33172.1	33092.6	33019.2	32915.3	33092.6
5°	32939.7	32964.2	32719.6	32634.0	32670.7	32952.0	32695.1	32695.1	32670.7	32640.1
7.5°	32609.5	32621.8	32432.2	32279.3	32377.2	32505.6	32316.0	32407.7	32273.2	32377.2
10°	32114.2	32034.8	31808.5	31765.7	31875.8	31998.1	31869.7	31955.3	31833.0	31912.5
12.5°	31386.6	31264.3	31080.9	31025.8	31215.4	31380.5	31276.5	31227.6	31068.6	31264.3
15°	28580.0	28488.2	28904.0	29631.7	30286.0	30426.6	30316.5	30365.4	30035.3	30090.3
17.5°	23523.1	23351.9	23798.3	25522.6	27980.7	29277.0	29179.2	28861.2	28372.1	28482.1
20°	21376.9	21328.0	21279.0	21688.7	23407.0	27338.7	27473.2	26666.1	25969.0	25816.1
22.5°	20166.2	20147.8	20098.9	20190.6	20643.1	23168.5	24709.4	23963.4	23498.7	23455.9
25°	19059.4	19028.9	18882.1	18998.3	18998.3	19145.0	21120.1	21572.6	21162.9	21114.0
27.5°	17934.3	17879.3	17854.8	17909.9	17628.6	16638.0	17139.4	19346.8	19132.8	19145.0
30°	16717.5	16699.2	16631.9	16748.1	15879.8	14650.7	14332.8	17329.0	17371.8	17359.5
32.5°	14907.6	14987.1	15292.8	15421.2	13990.4	12975.3	12443.4	14993.2	15867.6	15849.2
35°	10829.1	10829.1	11825.8	13678.5	12259.9	11495.6	11208.2	12712.4	14381.7	14442.8
37.5°	8903.0	8933.5	9129.2	9973.0	10578.4	10309.3	10223.7	10700.7	12473.9	12571.8
40°	8010.2	8010.2	8010.2	7661.7	7643.3	9288.2	9239.3	9086.4	10774.0	10988.1
42.5°	7197.0	7215.3	7227.5	6347.0	5857.9	8028.6	7918.5	7686.1	9251.5	9502.2
45°	6359.3	6389.8	6426.5	5307.5	5093.5	5778.4	6701.7	6444.9	7747.3	8071.4
47.5°	3882.8	3931.7	4763.3	4500.4	4524.9	4457.6	5466.5	5423.7	6353.1	6811.7
50°	2623.2	2641.5	2721.0	2855.6	3882.8	3503.7	3870.6	4488.2	4824.5	5521.5
52.5°	2201.3	2231.9	2036.2	1852.7	2549.8	2739.4	2702.7	3332.5	3467.0	4329.2
55°	1547.0	1644.8	1553.1	1534.8	1449.2	2127.9	2048.4	2562.0	2647.7	3289.7
57.5°	159.0	183.4	318.0	1143.4	947.8	1204.6	1461.4	1877.2	1962.8	2427.5
60°	12.2	12.2	30.6	159.0	691.0	721.5	1008.9	1155.7	1320.8	1693.8
62.5°	0.0	6.1	12.2	24.5	110.1	385.2	507.5	605.4	794.9	1094.5
65°	0.0	0.0	6.1	18.3	24.5	146.8	195.7	318.0	434.1	678.7
67.5°	0.0	0.0	6.1	12.2	18.3	36.7	67.3	116.2	232.4	385.2
70°	0.0	0.0	6.1	12.2	18.3	30.6	48.9	73.4	103.9	207.9
72.5°	0.0	0.0	6.1	6.1	12.2	30.6	36.7	48.9	73.4	103.9
75°	0.0	0.0	6.1	6.1	18.3	36.7	30.6	36.7	48.9	67.3
77.5°	0.0	0.0	6.1	12.2	18.3	36.7	30.6	36.7	36.7	42.8
80°	0.0	0.0	6.1	12.2	24.5	42.8	36.7	36.7	30.6	30.6
82.5°	0.0	0.0	6.1	18.3	24.5	55.0	55.0	48.9	24.5	18.3
85°	0.0	0.0	12.2	24.5	36.7	61.1	61.1	48.9	18.3	12.2
87.5°	0.0	0.0	12.2	18.3	30.6	42.8	61.1	48.9	18.3	6.1
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°
33043.7	0°	33043.7	33043.7	33043.7	33043.7	33043.7	33043.7	33043.7	33043.7	33043.7
32939.7	2.5°	33104.8	33068.1	33190.4	33239.3	33306.6	33049.8	32890.8	32896.9	32603.4
32566.7	5°	32762.4	32768.5	32927.5	32915.3	32982.5	32841.9	32780.7	32676.8	32420.0
32095.9	7.5°	32328.3	32273.2	32426.1	32542.3	32371.1	32468.9	32328.3	32377.2	32224.3
31680.1	10°	31991.9	31863.5	32004.2	32083.7	32089.8	31991.9	31857.4	31729.0	31674.0
31031.9	12.5°	31246.0	31080.9	31319.3	31429.4	31411.1	31221.5	31068.6	31099.2	30921.9
29894.6	15°	30218.7	30224.8	30396.0	30500.0	30402.1	30359.3	30371.6	30298.2	30145.3
28323.1	17.5°	28647.2	28738.9	29191.4	29442.1	29497.2	29411.6	29368.8	29283.2	29130.3
25816.1	20°	26030.1	26580.5	27387.6	28164.2	28317.0	28292.6	28139.7	28103.0	28017.4
23333.6	22.5°	23731.0	24140.7	25076.3	26287.0	26910.7	26971.8	26788.4	26733.3	26641.6
21114.0	25°	21352.4	21792.7	22636.5	23951.2	25241.4	25504.3	25473.7	25308.6	25210.8
19145.0	27.5°	19346.8	19787.1	20551.4	21737.6	23119.6	23963.4	24042.9	23779.9	23773.8
17390.1	30°	17536.9	18142.2	18723.1	19689.2	21028.3	22294.1	22428.6	22245.2	22263.5
15782.0	32.5°	16118.3	16619.7	17115.0	17763.1	18876.0	20349.6	20875.5	20704.3	20637.0
14442.8	35°	14669.1	15011.5	15519.0	16112.2	16870.4	18331.8	19242.9	19114.5	19047.2
12632.9	37.5°	13018.1	13605.1	13972.0	14638.5	15231.6	16393.4	17677.5	17659.2	17518.5
11092.0	40°	11324.4	11941.9	12498.4	13171.0	13629.6	14552.9	15977.6	15971.5	15989.9
9496.1	42.5°	9789.6	10358.2	11030.9	11764.6	12204.9	12877.5	14406.2	14491.8	14595.7
8181.4	45°	8401.6	8915.2	9538.9	10431.6	10963.6	11348.8	12706.3	13097.6	13091.5
7007.4	47.5°	7154.2	7637.2	8163.1	9031.4	9710.1	10058.6	11183.7	11740.2	11703.5
5747.8	50°	6004.6	6432.6	6983.0	7612.8	8523.8	8829.6	9667.3	10401.1	10346.0
4579.9	52.5°	4830.6	5423.7	5888.4	6463.2	7423.2	7722.8	8371.0	9086.4	9043.6
3436.4	55°	3766.6	4341.4	4904.0	5399.3	6206.4	6652.8	7117.5	7851.2	7839.0
2690.5	57.5°	2849.4	3479.2	4011.2	4482.1	5124.1	5674.4	6047.4	6713.9	6799.5
1840.5	60°	2109.6	2592.6	3167.4	3693.3	4200.8	4769.4	5020.1	5674.4	5711.1
1259.6	62.5°	1436.9	1968.9	2531.5	3008.4	3387.5	3974.5	4200.8	4738.9	4806.1
807.1	65°	996.7	1339.1	1981.2	2323.6	2788.3	3289.7	3515.9	3944.0	4078.5
464.7	67.5°	660.4	953.9	1547.0	1858.9	2317.5	2659.9	2947.3	3295.8	3442.6
293.5	70°	360.8	703.2	1106.8	1467.5	1865.0	2195.2	2476.4	2757.7	2886.1
134.5	72.5°	244.6	470.8	770.4	1161.8	1504.2	1828.3	2079.0	2286.9	2293.0
79.5	75°	122.3	318.0	587.0	898.9	1174.0	1492.0	1718.2	1840.5	1693.8
48.9	77.5°	73.4	232.4	476.9	721.5	953.9	1204.6	1333.0	1400.3	1161.8
36.7	80°	42.8	165.1	373.0	574.8	660.4	886.6	1008.9	1027.3	776.6
24.5	82.5°	30.6	122.3	293.5	421.9	403.6	623.7	758.2	733.8	495.3
18.3	85°	18.3	85.6	183.4	262.9	244.6	409.7	440.3	452.5	287.4
12.2	87.5°	12.2	48.9	97.8	140.6	116.2	177.3	177.3	214.0	140.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
33043.7
32224.3
32358.8
31967.5
31429.4
30769.0
29992.5
29063.0
27821.7
26617.2
25106.8
23761.6
22171.8
20643.1
18955.5
17634.7
15989.9
14540.7
13103.7
11715.7
10394.9
9135.3
7869.6
6762.8
5766.1
4818.4
4047.9
3424.2
2837.2
2238.0
1583.7
1119.0
727.6
458.6
262.9
122.3
0.0

(END OF REPORT)