

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: P638744

Luminaire Tested: **EPH-VN-03-E-750-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638744
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-750-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23265.1 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - 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



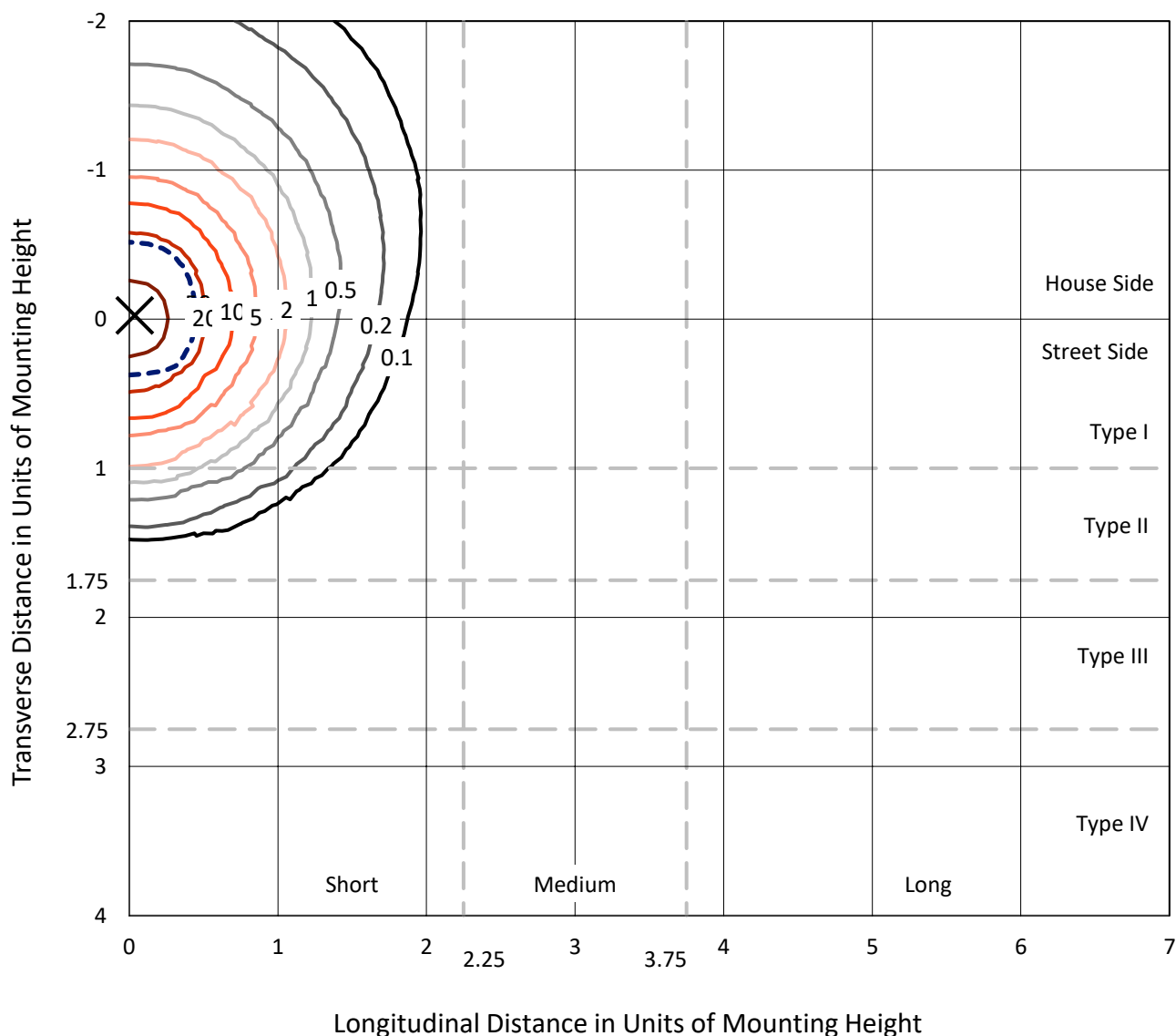
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

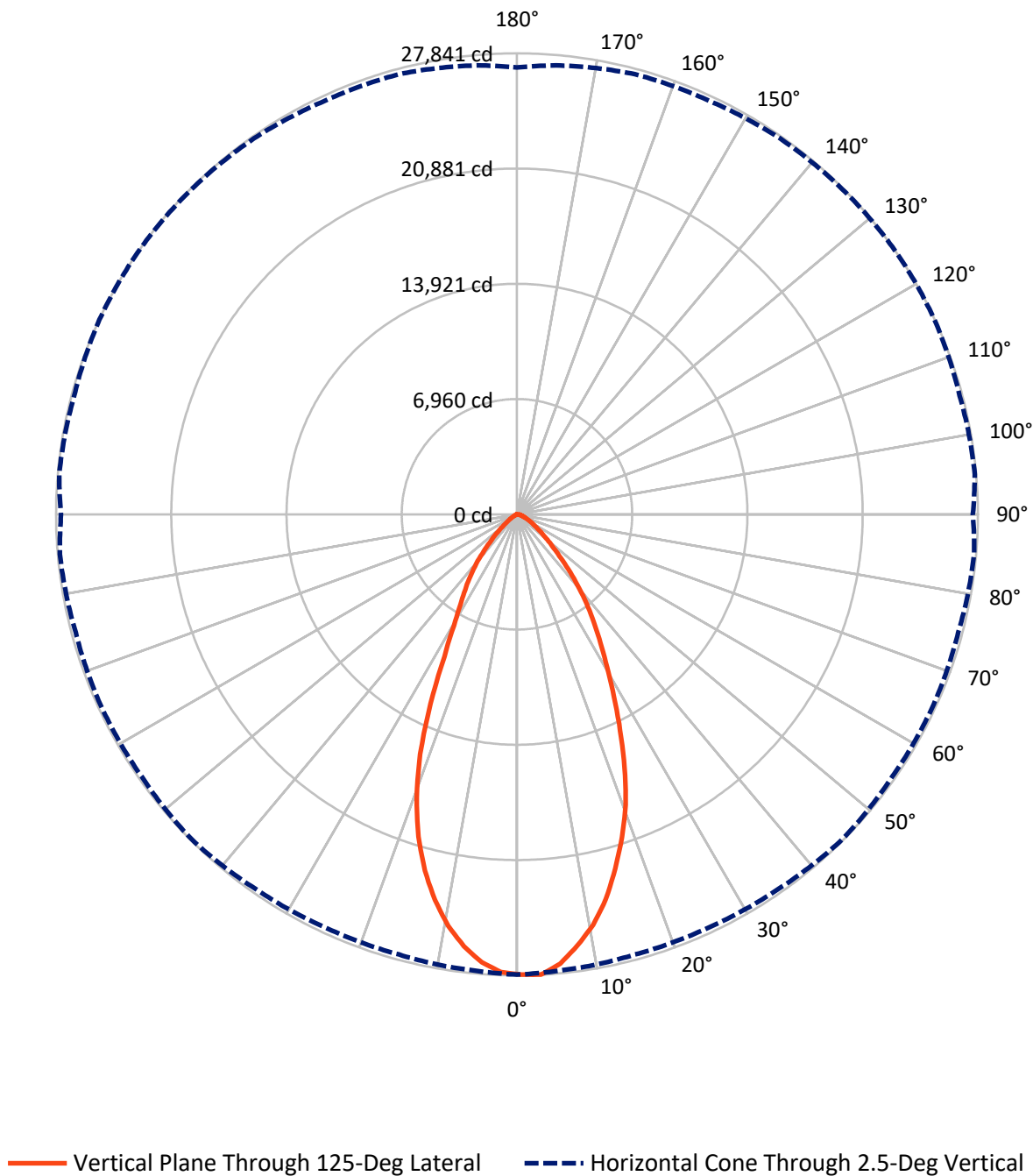


Based on 20 foot mounting height. Maximum calculated value = 69.5 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13201.5	0.0	13201.5
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	10063.6	0.0	10063.6
	% Fixture	43.3	0.0	43.3
Total	Lumens	23265.1	0.0	23265.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2524.0	10.8
10°-20°	6016.6	25.9
20°-30°	6127.8	26.3
30°-40°	4569.5	19.6
40°-50°	2387.2	10.3
50°-60°	1004.1	4.3
60°-70°	410.1	1.8
70°-80°	172.6	0.7
80°-90°	53.2	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°	23265.1	100.0
0°-180°	23265.1	100.0

Coefficient of Utilization



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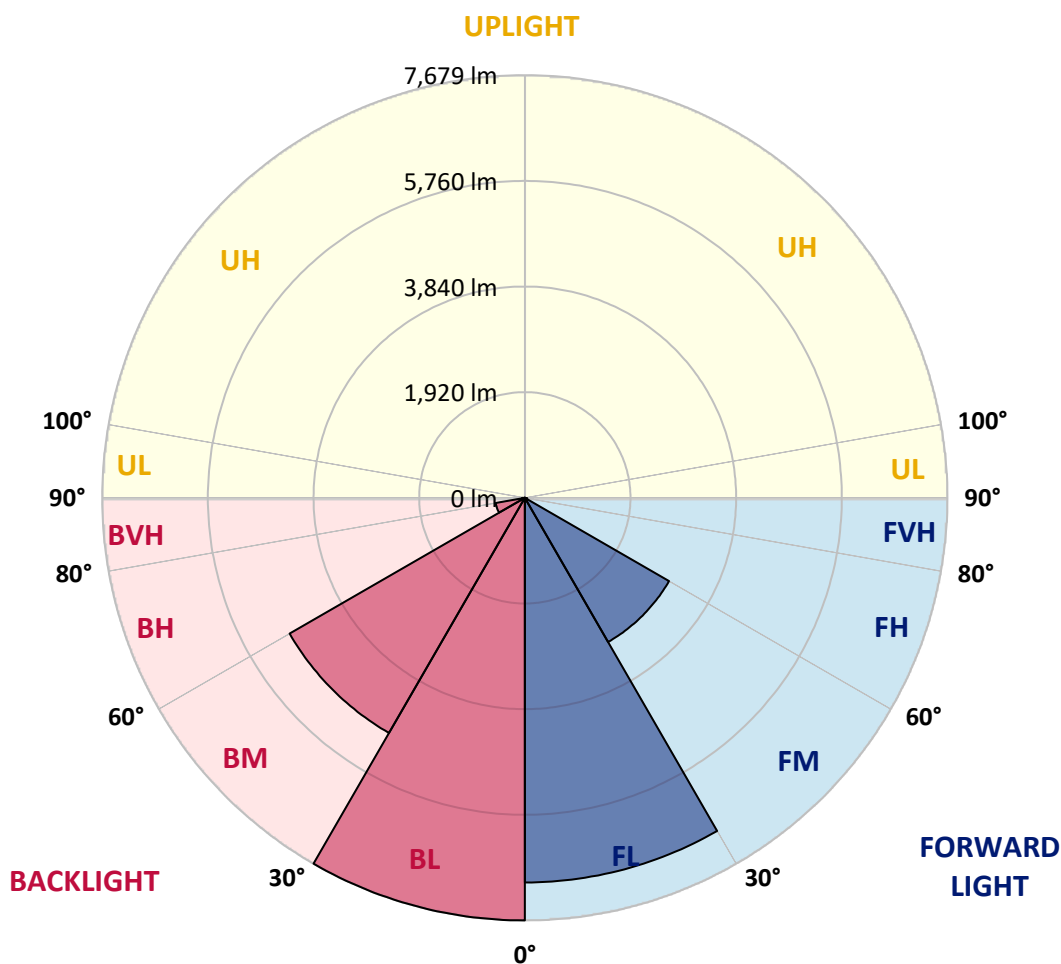
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6989.1	30.0			
FM	(30°-60°)	3025.7	13.0			
FH	(60°-80°)	43.8	0.2			G0/660
FVH	(80°-90°)	4.9	0.0			G0/10
BL	(0°-30°)	7679.4	33.0	B5		
BM	(30°-60°)	4935.1	21.2	B3/5000		
BH	(60°-80°)	538.9	2.3	B2/1000		G2/1000
BVH	(80°-90°)	48.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	27796.2	27796.2	27796.2	27796.2	27796.2	27796.2	27796.2	27796.2	27796.2	27796.2
2.5°	27799.2	27685.6	27524.2	27509.3	27592.9	27775.2	27658.7	27664.7	27592.9	27715.5
5°	27362.8	27255.2	27144.7	26998.2	27120.8	27198.5	27138.7	27072.9	26980.3	27099.8
7.5°	26538.0	26478.2	26313.9	26248.1	26322.8	26409.5	26281.0	26263.1	26134.5	26290.0
10°	25276.8	25252.9	25091.6	25052.7	25118.5	25249.9	25193.2	25181.2	25100.5	25085.6
12.5°	23967.9	23875.2	23675.0	23663.0	23761.7	23958.9	23806.5	23660.1	23704.9	23743.7
15°	20596.8	20498.2	20994.3	21774.3	22183.7	22168.8	22213.6	22037.3	21983.5	22001.4
17.5°	16374.1	16206.7	16386.0	17593.4	19538.9	20668.6	20357.8	19978.2	19775.0	19640.5
20°	14132.7	14141.6	14108.8	14419.6	15632.9	18209.0	18134.3	17402.1	17136.1	17025.6
22.5°	12769.9	12719.1	12647.4	12746.0	13071.8	14583.9	15597.1	14924.6	14832.0	14709.5
25°	11434.1	11434.1	11347.4	11446.0	11538.7	11559.6	12575.7	12850.6	12671.3	12671.3
27.5°	10277.5	10217.7	10178.9	10223.7	10101.2	9512.4	9640.9	11048.5	10926.0	10851.3
30°	9129.9	9112.0	9046.2	9106.0	8651.7	7988.3	7719.3	9324.2	9452.7	9425.8
32.5°	7537.0	7608.8	7901.6	7994.3	7217.3	6682.3	6425.3	7740.2	8254.3	8233.4
35°	5122.3	5182.1	5516.8	6622.5	5983.0	5600.5	5525.8	6156.3	7002.1	7082.8
37.5°	4079.3	4070.4	4166.0	4363.2	4808.5	4715.9	4695.0	4859.3	5711.0	5746.9
40°	3362.1	3350.1	3347.1	3185.8	3075.2	3920.9	3864.1	3765.5	4503.7	4575.4
42.5°	2710.6	2722.5	2731.5	2378.9	2217.5	3024.4	2991.5	2889.9	3532.4	3616.1
45°	2127.8	2124.8	2142.8	1772.2	1727.4	1933.6	2235.4	2154.7	2665.8	2755.4
47.5°	1102.8	1141.6	1383.7	1371.7	1392.6	1371.7	1691.5	1670.6	2005.3	2148.7
50°	741.2	753.1	774.0	777.0	1096.8	1010.1	1147.6	1300.0	1404.6	1625.8
52.5°	573.8	582.8	529.0	496.1	672.4	747.1	753.1	899.5	980.2	1204.4
55°	319.8	358.6	385.5	388.5	370.6	552.9	549.9	666.4	729.2	878.6
57.5°	41.8	50.8	77.7	251.0	248.0	307.8	385.5	484.1	520.0	642.5
60°	3.0	6.0	9.0	38.9	164.4	179.3	263.0	301.8	361.6	451.3
62.5°	0.0	0.0	3.0	9.0	32.9	104.6	137.5	158.4	212.2	295.9
65°	0.0	0.0	3.0	6.0	12.0	38.9	53.8	86.7	125.5	182.3
67.5°	0.0	0.0	3.0	6.0	9.0	14.9	23.9	38.9	65.7	110.6
70°	0.0	0.0	3.0	6.0	9.0	12.0	17.9	23.9	35.9	59.8
72.5°	0.0	0.0	3.0	3.0	6.0	14.9	14.9	17.9	23.9	32.9
75°	0.0	0.0	3.0	6.0	9.0	14.9	14.9	14.9	17.9	20.9
77.5°	0.0	0.0	3.0	6.0	9.0	14.9	12.0	14.9	14.9	14.9
80°	0.0	0.0	3.0	6.0	9.0	14.9	17.9	14.9	12.0	12.0
82.5°	0.0	0.0	3.0	9.0	9.0	20.9	20.9	20.9	9.0	9.0
85°	0.0	0.0	6.0	9.0	14.9	23.9	23.9	17.9	9.0	6.0
87.5°	0.0	0.0	3.0	6.0	6.0	12.0	17.9	14.9	6.0	3.0
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°
27796.2	0°	27796.2	27796.2	27796.2	27796.2	27796.2	27796.2	27796.2	27796.2	27796.2
27536.2	2.5°	27757.3	27682.6	27823.1	27841.0	27781.2	27706.5	27533.2	27518.2	27216.4
26926.5	5°	27231.3	27108.8	27198.5	27258.2	27237.3	27156.6	27084.9	27019.1	26747.2
25937.3	7.5°	26251.1	26206.3	26248.1	26292.9	26379.6	26292.9	26263.1	26194.3	25925.4
24963.1	10°	25163.3	25079.6	25238.0	25217.1	25193.2	25169.3	25043.7	25055.7	24738.9
23636.2	12.5°	23827.4	23687.0	23839.4	23857.3	23839.4	23755.7	23615.2	23675.0	23385.1
21843.0	15°	22031.3	22016.4	22127.0	22198.7	22249.5	22159.8	22112.0	22141.9	21968.6
19535.9	17.5°	19825.8	20020.1	20381.7	20504.2	20507.2	20599.8	20572.9	20537.1	20408.6
16980.7	20°	17231.8	17605.3	18161.2	18732.0	18896.4	18818.7	18782.8	18848.6	18657.3
14581.0	22.5°	14838.0	15157.7	15803.3	16637.1	17118.2	17166.0	17157.1	17100.3	17025.6
12659.3	25°	12805.8	13089.7	13708.3	14470.4	15393.8	15531.3	15537.3	15519.3	15453.6
10917.0	27.5°	11090.4	11434.1	11774.7	12456.1	13439.3	14007.2	13935.4	13914.5	13890.6
9446.7	30°	9536.3	9969.7	10289.5	10713.8	11595.4	12363.5	12438.2	12402.3	12345.5
8230.4	32.5°	8305.1	8562.1	8968.5	9255.4	9889.0	10758.6	11045.5	11018.6	10967.8
7133.6	35°	7235.2	7336.8	7656.6	7976.3	8397.7	9240.5	9664.9	9605.1	9596.1
5812.7	37.5°	5959.1	6299.8	6476.1	6798.9	7094.7	7749.2	8335.0	8308.1	8311.1
4674.0	40°	4811.5	5008.7	5358.4	5630.4	5902.3	6380.5	7032.0	7049.9	7043.9
3619.1	42.5°	3693.8	3885.1	4252.7	4548.5	4790.6	5086.4	5708.1	5729.0	5755.9
2818.2	45°	2883.9	3006.4	3275.4	3583.2	3840.2	4019.6	4491.7	4626.2	4629.2
2184.6	47.5°	2238.4	2378.9	2570.1	2866.0	3117.0	3245.5	3589.2	3771.5	3762.5
1676.6	50°	1757.2	1885.8	2041.2	2274.3	2546.2	2647.8	2901.8	3081.2	3072.2
1264.1	52.5°	1344.8	1509.2	1646.7	1826.0	2092.0	2178.6	2360.9	2567.1	2537.2
926.4	55°	1019.1	1186.4	1314.9	1464.4	1706.4	1817.0	1942.5	2106.9	2112.9
717.2	57.5°	768.0	941.4	1057.9	1210.3	1392.6	1515.2	1610.8	1787.1	1784.1
490.1	60°	549.9	699.3	839.8	998.2	1138.6	1279.1	1344.8	1512.2	1518.2
346.7	62.5°	397.5	537.9	672.4	809.9	935.4	1072.9	1132.6	1264.1	1282.1
227.1	65°	277.9	376.6	532.0	636.6	777.0	878.6	956.3	1069.9	1090.8
134.5	67.5°	179.3	272.0	421.4	514.0	642.5	729.2	809.9	899.5	926.4
86.7	70°	107.6	206.2	313.8	412.4	529.0	606.7	684.4	762.1	777.0
41.8	72.5°	68.7	143.4	227.1	334.7	424.4	508.0	576.8	633.6	588.7
26.9	75°	38.9	98.6	179.3	263.0	343.7	424.4	481.2	511.0	409.4
17.9	77.5°	23.9	71.7	146.4	212.2	266.0	340.7	376.6	394.5	292.9
12.0	80°	14.9	53.8	122.5	173.3	173.3	251.0	292.9	307.8	212.2
9.0	82.5°	12.0	38.9	95.6	131.5	116.6	188.3	230.1	233.1	149.4
6.0	85°	9.0	29.9	59.8	86.7	80.7	131.5	134.5	149.4	98.6
6.0	87.5°	6.0	17.9	35.9	50.8	44.8	62.8	71.7	80.7	53.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
27796.2
26980.3
26529.0
25868.6
24631.3
23301.4
21759.4
20217.3
18519.8
16882.1
15232.5
13750.1
12273.8
10833.4
9497.5
8215.4
6939.3
5666.2
4551.5
3729.7
3072.2
2540.2
2112.9
1778.2
1503.2
1276.1
1084.8
923.5
765.1
546.9
388.5
274.9
197.2
137.5
89.7
47.8
0.0

(END OF REPORT)