

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: P638802

Luminaire Tested: **EPH-VN-08-D-750-U-77-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638802  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-08-D-750-U-77-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 7 distribution lens and Visor  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43862.2 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

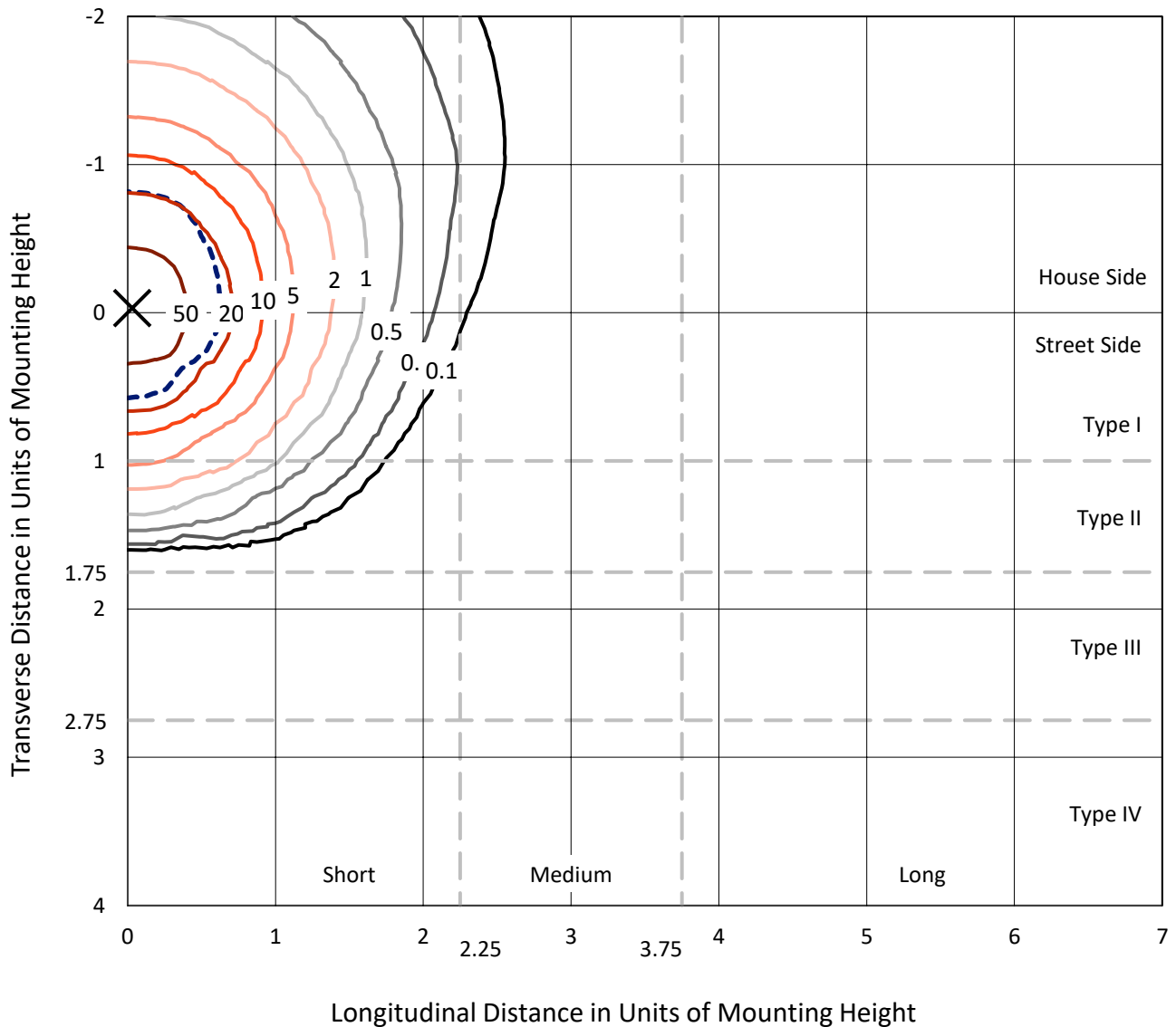
Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

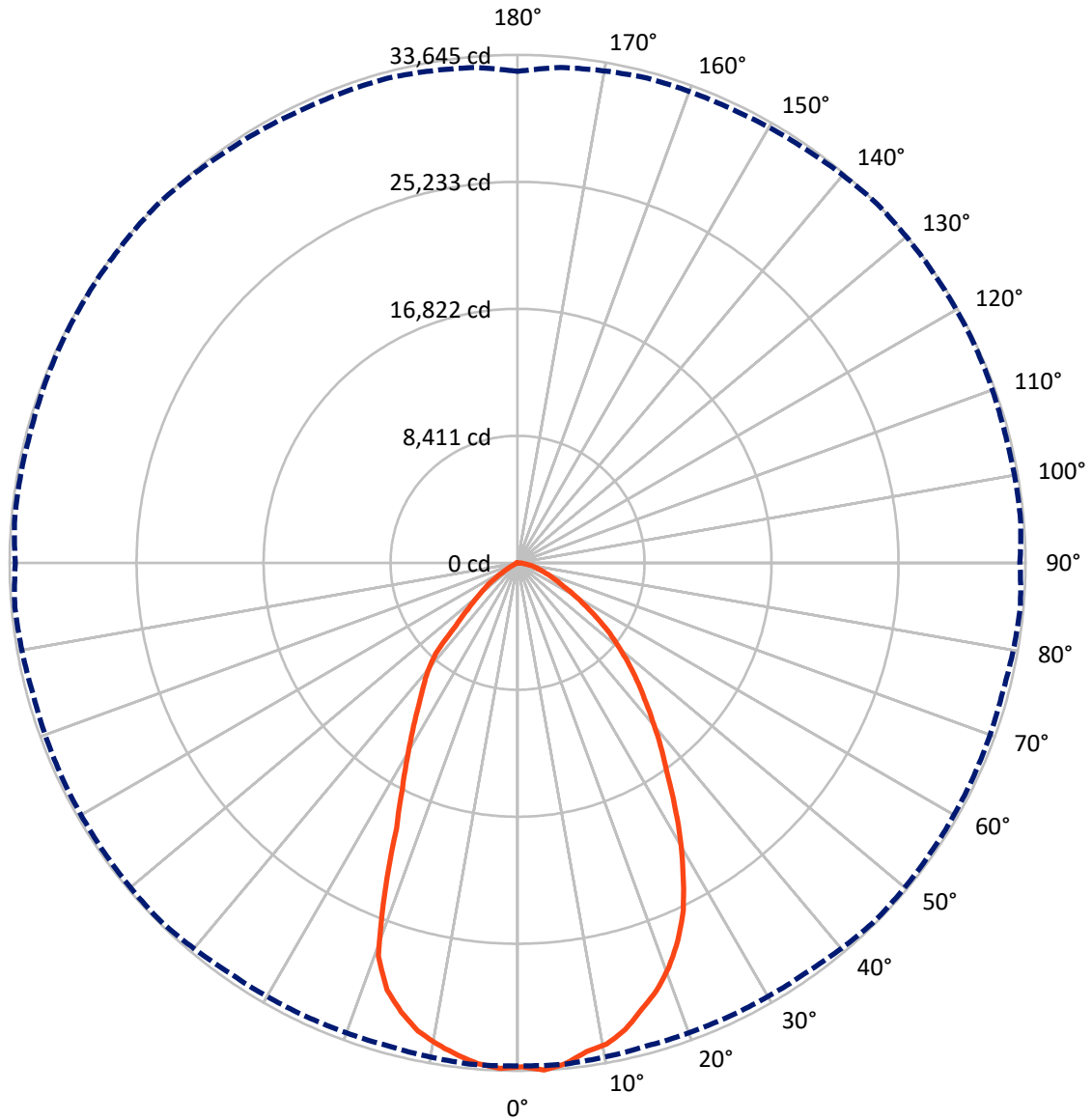
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 83.4 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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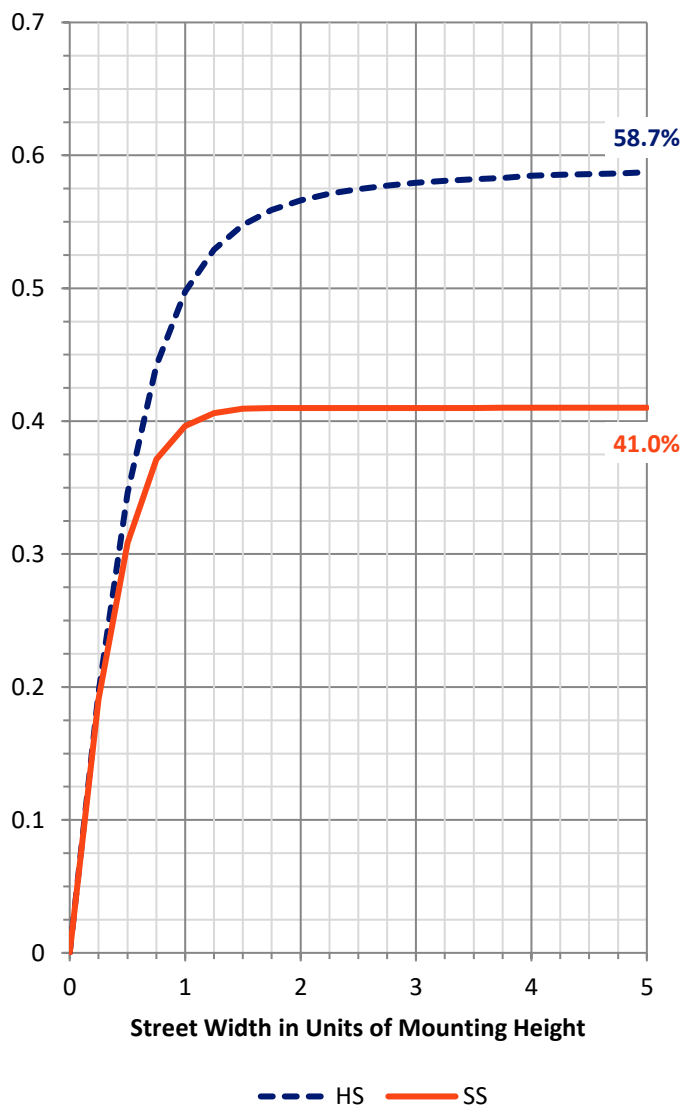
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25977.4	0.0	25977.4
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	17884.8	0.0	17884.8
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	43862.2	0.0	43862.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3130.4	7.1
10°-20°	8394.4	19.1
20°-30°	10237.5	23.3
30°-40°	9346.7	21.3
40°-50°	6754.6	15.4
50°-60°	3688.1	8.4
60°-70°	1524.9	3.5
70°-80°	617.6	1.4
80°-90°	168.0	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°	43862.2	100.0
0°-180°	43862.2	100.0

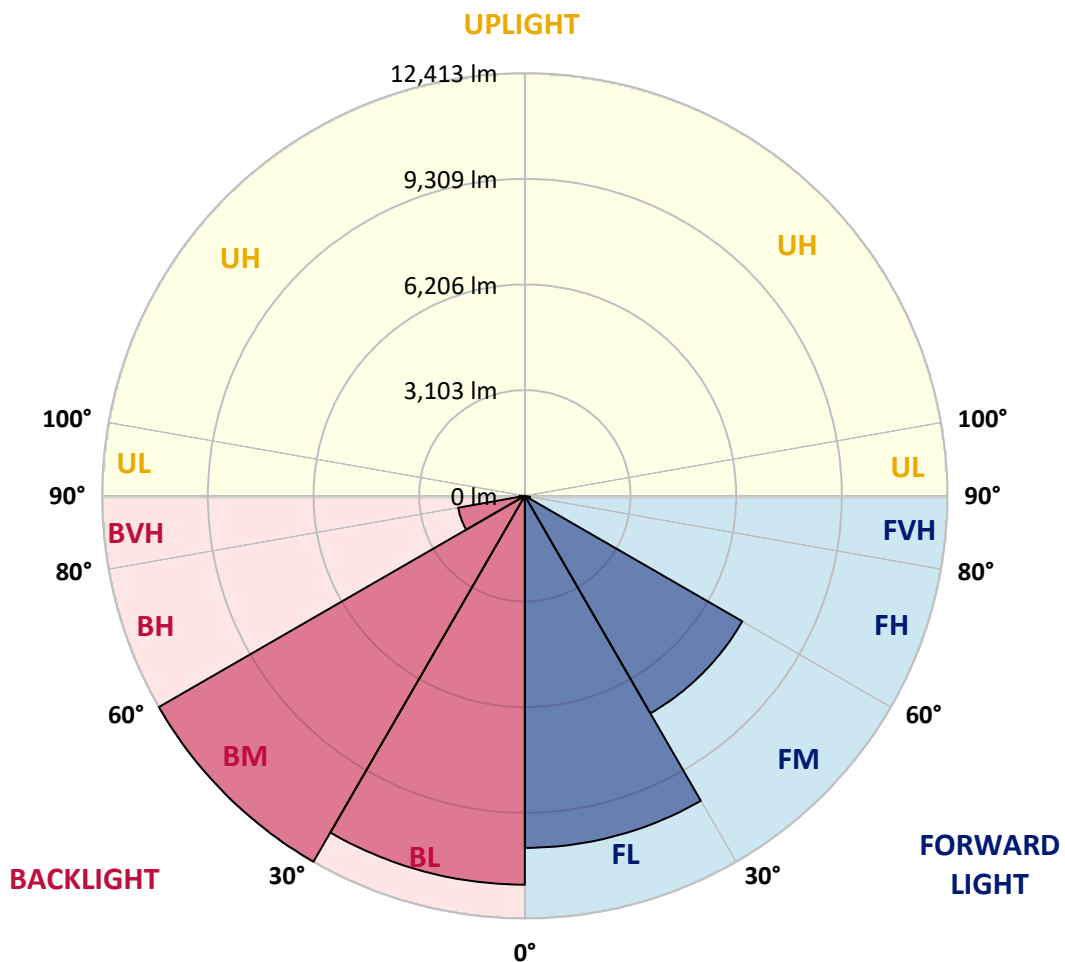


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10339.9	23.6			
FM (30°-60°)	7376.8	16.8			
FH (60°-80°)	154.6	0.4			G0/660
FVH (80°-90°)	13.5	0.0			G1/100
BL (0°-30°)	11422.3	26.0	B5		
BM (30°-60°)	12412.6	28.3	B5		
BH (60°-80°)	1987.9	4.5	B3/2500		G3/2500
BVH (80°-90°)	154.5	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°	33379.0	33379.0	33379.0	33379.0	33379.0	33379.0	33379.0	33379.0	33379.0	33379.0
2.5°	33317.2	33360.4	33125.7	33150.4	33193.7	33508.7	33428.4	33354.3	33249.3	33428.4
5°	33274.0	33298.7	33051.6	32965.1	33002.2	33286.3	33026.9	33026.9	33002.2	32971.3
7.5°	32940.4	32952.8	32761.3	32606.9	32705.7	32835.4	32643.9	32736.6	32600.7	32705.7
10°	32440.1	32359.8	32131.3	32088.0	32199.2	32322.8	32193.0	32279.5	32156.0	32236.3
12.5°	31705.1	31581.6	31396.3	31340.7	31532.1	31698.9	31593.9	31544.5	31383.9	31581.6
15°	28870.0	28777.3	29197.3	29932.4	30593.3	30735.3	30624.2	30673.6	30340.0	30395.6
17.5°	23761.8	23588.9	24039.8	25781.6	28264.7	29574.1	29475.3	29154.1	28660.0	28771.1
20°	21593.8	21544.4	21495.0	21908.8	23644.5	27616.1	27752.0	26936.7	26232.5	26078.1
22.5°	20370.8	20352.3	20302.9	20395.5	20852.6	23403.6	24960.1	24206.6	23737.1	23693.9
25°	19252.8	19221.9	19073.7	19191.1	19191.1	19339.3	21334.4	21791.5	21377.6	21328.2
27.5°	18116.3	18060.7	18036.0	18091.6	17807.5	16806.8	17313.3	19543.1	19326.9	19339.3
30°	16887.1	16868.6	16800.7	16918.0	16040.9	14799.4	14478.2	17504.8	17548.1	17535.7
32.5°	15058.8	15139.1	15448.0	15577.7	14132.3	13107.0	12569.6	15145.3	16028.6	16010.1
35°	10939.0	10939.0	11945.8	13817.3	12384.3	11612.2	11321.9	12841.4	14527.6	14589.4
37.5°	8993.3	9024.2	9221.8	10074.2	10685.7	10413.9	10327.5	10809.3	12600.5	12699.3
40°	8091.5	8091.5	8091.5	7739.4	7720.9	9382.4	9333.0	9178.6	10883.4	11099.6
42.5°	7270.0	7288.5	7300.9	6411.4	5917.3	8110.0	7998.8	7764.1	9345.4	9598.6
45°	6423.8	6454.7	6491.7	5361.4	5145.2	5837.0	6769.7	6510.3	7825.9	8153.3
47.5°	3922.2	3971.6	4811.7	4546.1	4570.8	4502.8	5522.0	5478.7	6417.6	6880.9
50°	2649.8	2668.3	2748.6	2884.5	3922.2	3539.3	3909.9	4533.7	4873.4	5577.6
52.5°	2223.6	2254.5	2056.8	1871.5	2575.7	2767.2	2730.1	3366.3	3502.2	4373.1
55°	1562.7	1661.5	1568.9	1550.4	1463.9	2149.5	2069.2	2588.0	2674.5	3323.1
57.5°	160.6	185.3	321.2	1155.0	957.4	1216.8	1476.2	1896.3	1982.7	2452.2
60°	12.4	12.4	30.9	160.6	698.0	728.9	1019.2	1167.4	1334.2	1711.0
62.5°	0.0	6.2	12.4	24.7	111.2	389.1	512.7	611.5	803.0	1105.6
65°	0.0	0.0	6.2	18.5	24.7	148.2	197.7	321.2	438.5	685.6
67.5°	0.0	0.0	6.2	12.4	18.5	37.1	67.9	117.4	234.7	389.1
70°	0.0	0.0	6.2	12.4	18.5	30.9	49.4	74.1	105.0	210.0
72.5°	0.0	0.0	6.2	6.2	12.4	30.9	37.1	49.4	74.1	105.0
75°	0.0	0.0	6.2	6.2	18.5	37.1	30.9	37.1	49.4	67.9
77.5°	0.0	0.0	6.2	12.4	18.5	37.1	30.9	37.1	37.1	43.2
80°	0.0	0.0	6.2	12.4	24.7	43.2	37.1	37.1	30.9	30.9
82.5°	0.0	0.0	6.2	18.5	24.7	55.6	55.6	49.4	24.7	18.5
85°	0.0	0.0	12.4	24.7	37.1	61.8	61.8	49.4	18.5	12.4
87.5°	0.0	0.0	12.4	18.5	30.9	43.2	61.8	49.4	18.5	6.2
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°
33379.0	0°	33379.0	33379.0	33379.0	33379.0	33379.0	33379.0	33379.0	33379.0	33379.0
33274.0	2.5°	33440.7	33403.7	33527.2	33576.6	33644.6	33385.2	33224.6	33230.7	32934.3
32897.2	5°	33094.8	33101.0	33261.6	33249.3	33317.2	33175.1	33113.4	33008.4	32749.0
32421.6	7.5°	32656.3	32600.7	32755.1	32872.5	32699.5	32798.4	32656.3	32705.7	32551.3
32001.6	10°	32316.6	32186.9	32328.9	32409.2	32415.4	32316.6	32180.7	32051.0	31995.4
31346.8	12.5°	31563.0	31396.3	31637.1	31748.3	31729.8	31538.3	31383.9	31414.8	31235.7
30198.0	15°	30525.3	30531.5	30704.5	30809.5	30710.6	30667.4	30679.8	30605.6	30451.2
28610.6	17.5°	28937.9	29030.6	29487.6	29740.9	29796.5	29710.0	29666.8	29580.3	29425.9
26078.1	20°	26294.3	26850.2	27665.5	28450.0	28604.4	28579.7	28425.3	28388.2	28301.7
23570.4	22.5°	23971.8	24385.7	25330.7	26553.7	27183.7	27245.5	27060.2	27004.6	26912.0
21328.2	25°	21569.1	22013.8	22866.2	24194.2	25497.5	25763.1	25732.2	25565.4	25466.6
19339.3	27.5°	19543.1	19987.9	20759.9	21958.2	23354.2	24206.6	24286.9	24021.3	24015.1
17566.6	30°	17714.8	18326.3	18913.1	19889.0	21241.7	22520.3	22656.2	22470.9	22489.4
15942.1	32.5°	16281.8	16788.3	17288.6	17943.4	19067.5	20556.1	21087.3	20914.4	20846.4
14589.4	35°	14817.9	15163.8	15676.5	16275.6	17041.6	18517.8	19438.1	19308.4	19240.5
12761.1	37.5°	13150.2	13743.2	14113.8	14787.1	15386.2	16559.8	17856.9	17838.4	17696.3
11204.6	40°	11439.3	12063.1	12625.2	13304.6	13767.9	14700.6	16139.8	16133.6	16152.1
9592.4	42.5°	9888.9	10463.4	11142.8	11884.0	12328.7	13008.2	14552.3	14638.8	14743.8
8264.4	45°	8486.8	9005.7	9635.7	10537.5	11074.9	11464.0	12835.2	13230.5	13224.4
7078.5	47.5°	7226.8	7714.7	8245.9	9123.0	9808.6	10160.7	11297.2	11859.3	11822.2
5806.1	50°	6065.5	6497.9	7053.8	7690.0	8610.3	8919.2	9765.4	10506.6	10451.0
4626.4	52.5°	4879.6	5478.7	5948.2	6528.8	7498.5	7801.2	8455.9	9178.6	9135.4
3471.3	55°	3804.9	4385.5	4953.7	5454.0	6269.4	6720.3	7189.7	7930.9	7918.6
2717.8	57.5°	2878.4	3514.6	4051.9	4527.5	5176.1	5732.0	6108.8	6782.0	6868.5
1859.2	60°	2131.0	2618.9	3199.5	3730.7	4243.4	4817.8	5071.1	5732.0	5769.1
1272.4	62.5°	1451.5	1988.9	2557.2	3038.9	3421.9	4014.9	4243.4	4787.0	4854.9
815.3	65°	1006.8	1352.7	2001.3	2347.2	2816.6	3323.1	3551.6	3984.0	4119.9
469.4	67.5°	667.1	963.6	1562.7	1877.7	2341.0	2686.9	2977.2	3329.3	3477.5
296.5	70°	364.4	710.3	1118.0	1482.4	1883.9	2217.4	2501.6	2785.7	2915.4
135.9	72.5°	247.1	475.6	778.3	1173.6	1519.5	1846.8	2100.1	2310.1	2316.3
80.3	75°	123.5	321.2	593.0	908.0	1185.9	1507.1	1735.7	1859.2	1711.0
49.4	77.5°	74.1	234.7	481.8	728.9	963.6	1216.8	1346.5	1414.5	1173.6
37.1	80°	43.2	166.8	376.8	580.6	667.1	895.6	1019.2	1037.7	784.4
24.7	82.5°	30.9	123.5	296.5	426.2	407.7	630.0	765.9	741.2	500.3
18.5	85°	18.5	86.5	185.3	265.6	247.1	413.8	444.7	457.1	290.3
12.4	87.5°	12.4	49.4	98.8	142.1	117.4	179.1	179.1	216.2	142.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
33379.0  
32551.3  
32687.2  
32291.9  
31748.3  
31081.2  
30296.8  
29357.9  
28104.1  
26887.2  
25361.6  
24002.7  
22396.8  
20852.6  
19147.8  
17813.7  
16152.1  
14688.2  
13236.7  
11834.6  
10500.4  
9228.0  
7949.4  
6831.4  
5824.6  
4867.3  
4089.0  
3459.0  
2866.0  
2260.7  
1599.8  
1130.3  
735.0  
463.3  
265.6  
123.5  
0.0

(END OF REPORT)