

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: P638784

Luminaire Tested: **EPH-VN-08-D-730-U-77-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638784  
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-730-U-77-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 7 distribution lens and Visor  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39046.7 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

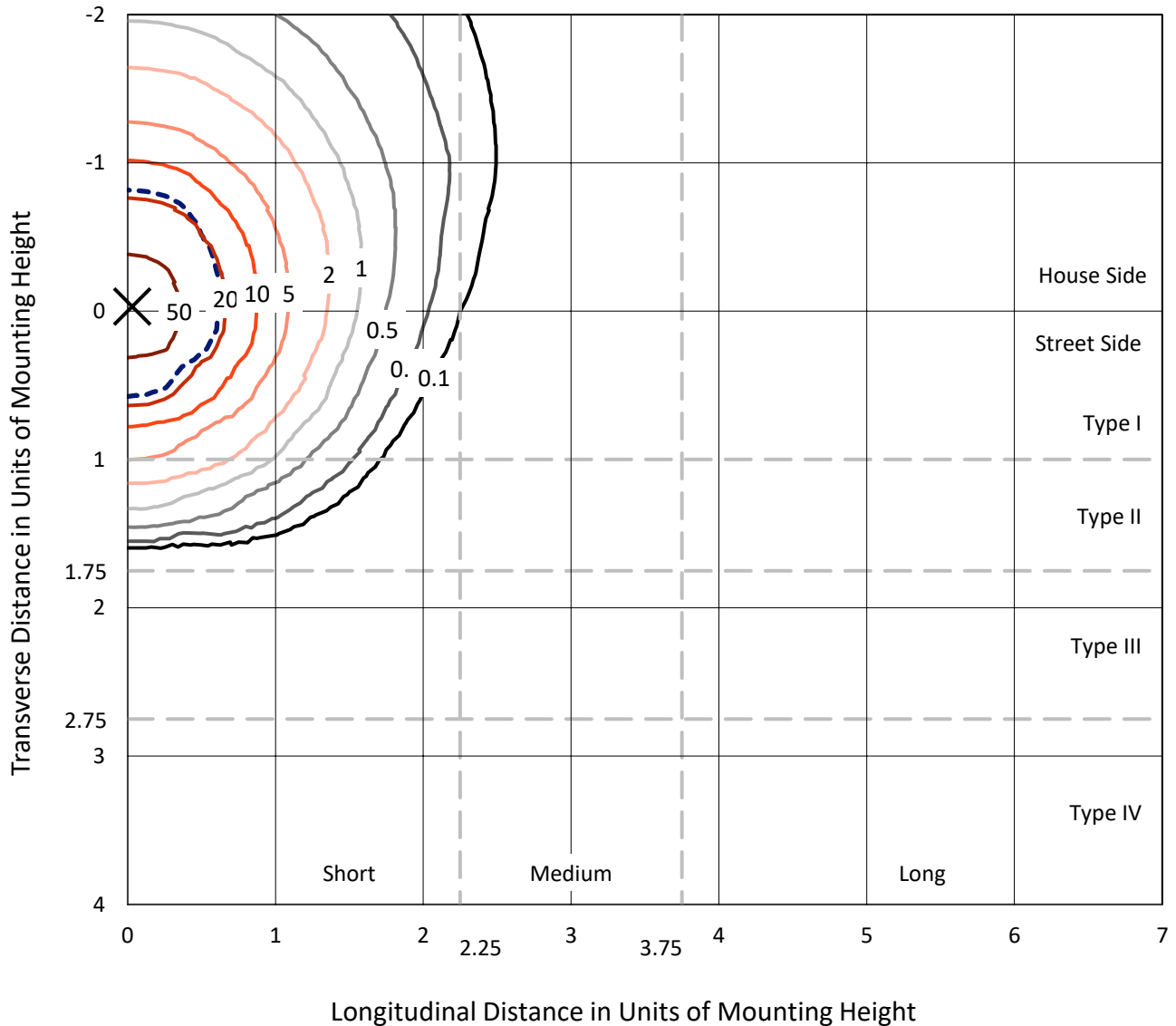
Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

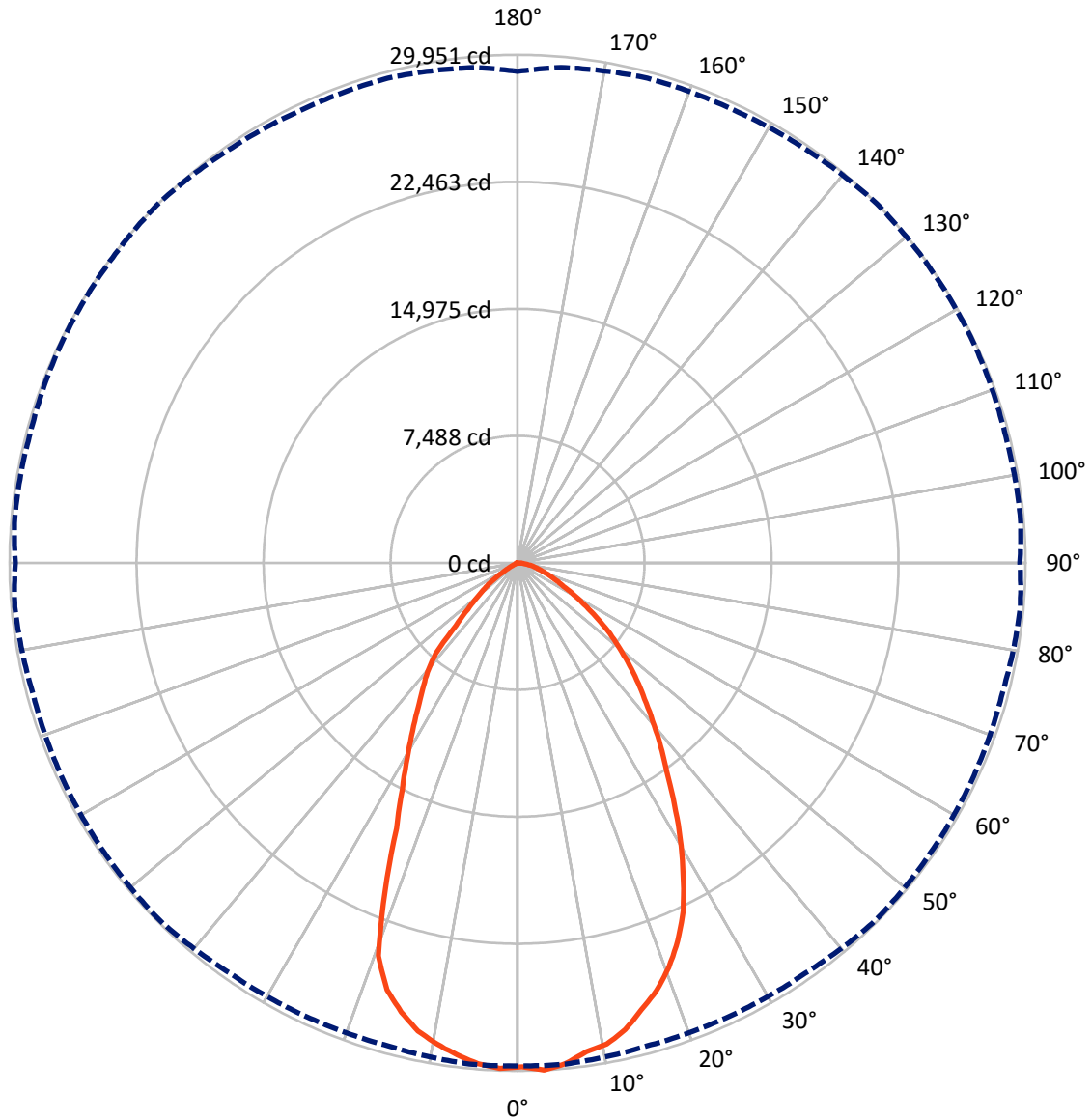
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 74.3 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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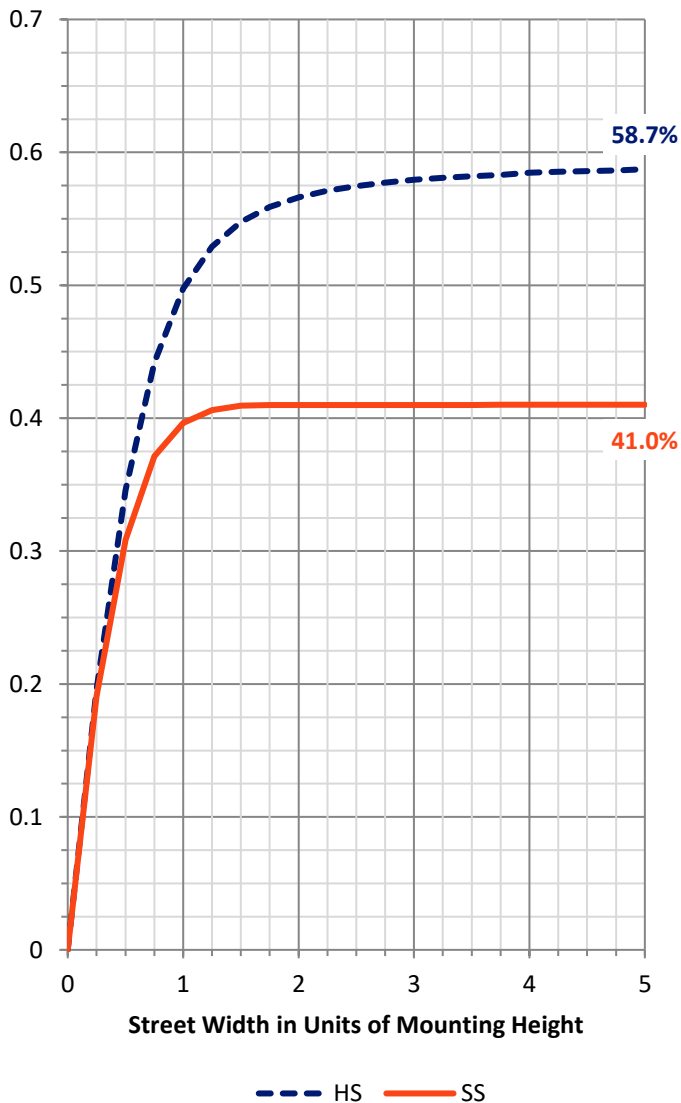
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23125.5	0.0	23125.5
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	15921.3	0.0	15921.3
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	39046.7	0.0	39046.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2786.7	7.1
10°-20°	7472.8	19.1
20°-30°	9113.5	23.3
30°-40°	8320.6	21.3
40°-50°	6013.1	15.4
50°-60°	3283.2	8.4
60°-70°	1357.5	3.5
70°-80°	549.8	1.4
80°-90°	149.6	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°	39046.7	100.0
0°-180°	39046.7	100.0

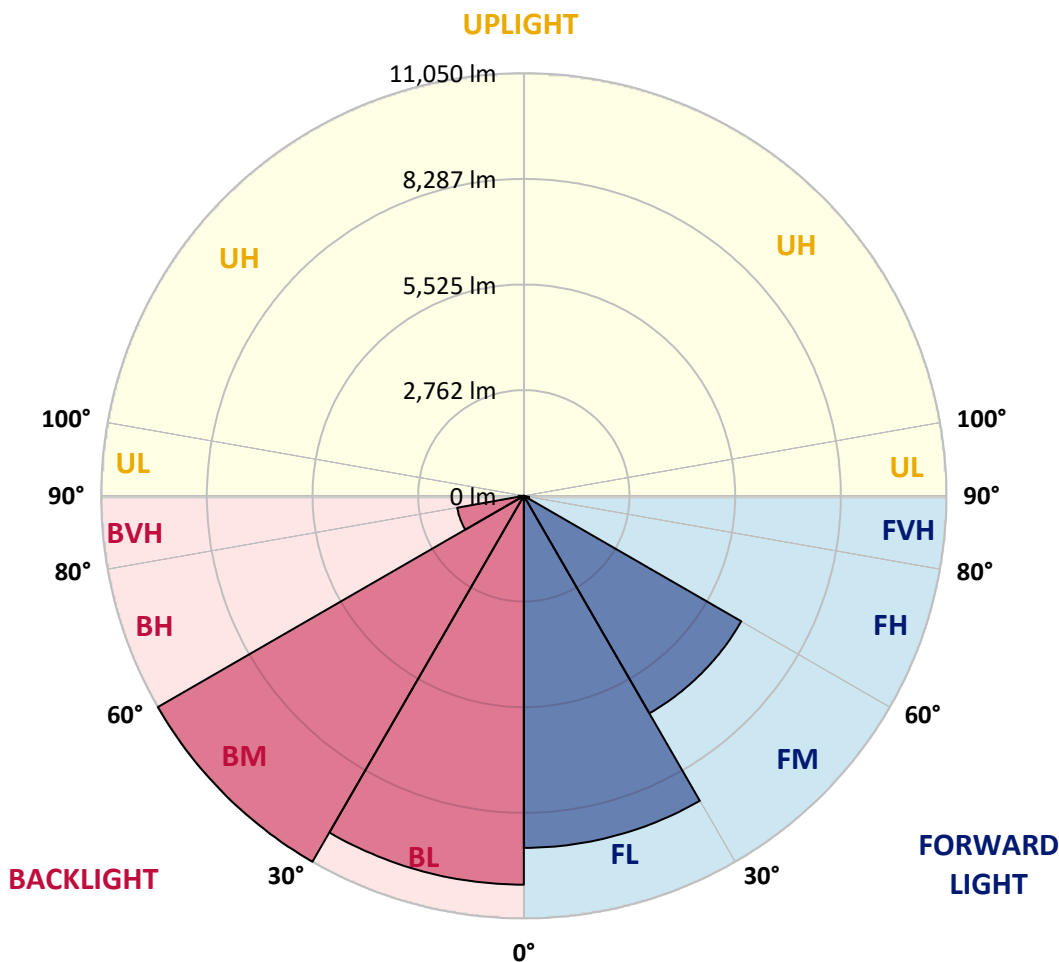


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9204.8	23.6			
FM (30°-60°)	6566.9	16.8			
FH (60°-80°)	137.6	0.4			G0/660
FVH (80°-90°)	12.0	0.0			G1/100
BL (0°-30°)	10168.3	26.0	B5		
BM (30°-60°)	11049.9	28.3	B5		
BH (60°-80°)	1769.7	4.5	B3/2500		G3/2500
BVH (80°-90°)	137.6	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°	29714.4	29714.4	29714.4	29714.4	29714.4	29714.4	29714.4	29714.4	29714.4	29714.4
2.5°	29659.5	29697.9	29489.0	29511.0	29549.5	29829.9	29758.4	29692.4	29599.0	29758.4
5°	29621.0	29643.0	29423.0	29346.0	29379.0	29632.0	29401.0	29401.0	29379.0	29351.5
7.5°	29324.0	29335.0	29164.6	29027.1	29115.1	29230.6	29060.1	29142.6	29021.6	29115.1
10°	28878.6	28807.2	28603.7	28565.2	28664.2	28774.2	28658.7	28735.7	28625.7	28697.2
12.5°	28224.3	28114.3	27949.4	27899.9	28070.4	28218.8	28125.3	28081.4	27938.4	28114.3
15°	25700.5	25618.0	25991.9	26646.2	27234.6	27361.0	27262.1	27306.0	27009.1	27058.6
17.5°	21153.1	20999.2	21400.6	22951.2	25161.6	26327.3	26239.3	25953.4	25513.5	25612.5
20°	19223.1	19179.1	19135.1	19503.5	21048.6	24584.2	24705.2	23979.4	23352.6	23215.1
22.5°	18134.4	18117.9	18073.9	18156.4	18563.3	20834.2	22219.8	21549.0	21131.1	21092.6
25°	17139.1	17111.6	16979.7	17084.2	17084.2	17216.1	18992.2	19399.1	19030.7	18986.7
27.5°	16127.4	16077.9	16055.9	16105.4	15852.5	14961.7	15412.6	17397.6	17205.1	17216.1
30°	15033.2	15016.7	14956.2	15060.7	14279.9	13174.6	12888.7	15583.0	15621.5	15610.5
32.5°	13405.6	13477.1	13752.0	13867.5	12580.8	11668.0	11189.7	13482.6	14268.9	14252.4
35°	9738.0	9738.0	10634.3	12300.4	11024.7	10337.4	10078.9	11431.6	12932.7	12987.7
37.5°	8006.0	8033.5	8209.4	8968.2	9512.6	9270.6	9193.7	9622.6	11217.1	11305.1
40°	7203.2	7203.2	7203.2	6889.7	6873.3	8352.4	8308.4	8170.9	9688.5	9881.0
42.5°	6471.9	6488.3	6499.3	5707.5	5267.7	7219.7	7120.7	6911.7	8319.4	8544.8
45°	5718.5	5746.0	5779.0	4772.8	4580.3	5196.2	6026.5	5795.5	6966.7	7258.2
47.5°	3491.6	3535.6	4283.4	4047.0	4069.0	4008.5	4915.7	4877.3	5713.0	6125.4
50°	2358.9	2375.4	2446.9	2567.8	3491.6	3150.7	3480.6	4036.0	4338.4	4965.2
52.5°	1979.5	2007.0	1831.0	1666.1	2292.9	2463.4	2430.4	2996.7	3117.7	3893.0
55°	1391.1	1479.1	1396.6	1380.1	1303.2	1913.5	1842.0	2303.9	2380.9	2958.2
57.5°	143.0	165.0	285.9	1028.2	852.3	1083.2	1314.2	1688.1	1765.1	2182.9
60°	11.0	11.0	27.5	143.0	621.3	648.8	907.3	1039.2	1187.7	1523.1
62.5°	0.0	5.5	11.0	22.0	99.0	346.4	456.4	544.4	714.8	984.2
65°	0.0	0.0	5.5	16.5	22.0	132.0	176.0	285.9	390.4	610.3
67.5°	0.0	0.0	5.5	11.0	16.5	33.0	60.5	104.5	208.9	346.4
70°	0.0	0.0	5.5	11.0	16.5	27.5	44.0	66.0	93.5	187.0
72.5°	0.0	0.0	5.5	5.5	11.0	27.5	33.0	44.0	66.0	93.5
75°	0.0	0.0	5.5	5.5	16.5	33.0	27.5	33.0	44.0	60.5
77.5°	0.0	0.0	5.5	11.0	16.5	33.0	27.5	33.0	33.0	38.5
80°	0.0	0.0	5.5	11.0	22.0	38.5	33.0	33.0	27.5	27.5
82.5°	0.0	0.0	5.5	16.5	22.0	49.5	49.5	44.0	22.0	16.5
85°	0.0	0.0	11.0	22.0	33.0	55.0	55.0	44.0	16.5	11.0
87.5°	0.0	0.0	11.0	16.5	27.5	38.5	55.0	44.0	16.5	5.5
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°
29714.4	0°	29714.4	29714.4	29714.4	29714.4	29714.4	29714.4	29714.4	29714.4	29714.4
29621.0	2.5°	29769.4	29736.4	29846.4	29890.4	29950.9	29719.9	29577.0	29582.5	29318.5
29285.5	5°	29461.5	29467.0	29610.0	29599.0	29659.5	29533.0	29478.0	29384.5	29153.6
28862.2	7.5°	29071.1	29021.6	29159.1	29263.6	29109.6	29197.6	29071.1	29115.1	28977.6
28488.2	10°	28768.7	28653.2	28779.7	28851.2	28856.7	28768.7	28647.7	28532.2	28482.8
27905.4	12.5°	28097.8	27949.4	28163.8	28262.8	28246.3	28075.9	27938.4	27965.9	27806.4
26882.7	15°	27174.1	27179.6	27333.5	27427.0	27339.0	27300.6	27311.5	27245.6	27108.1
25469.5	17.5°	25760.9	25843.4	26250.3	26475.8	26525.2	26448.3	26409.8	26332.8	26195.3
23215.1	20°	23407.5	23902.4	24628.2	25326.6	25464.0	25442.0	25304.6	25271.6	25194.6
20982.7	22.5°	21340.1	21708.5	22549.8	23638.5	24199.3	24254.3	24089.4	24039.9	23957.4
18986.7	25°	19201.1	19597.0	20355.8	21538.0	22698.2	22934.7	22907.2	22758.7	22670.7
17216.1	27.5°	17397.6	17793.5	18480.8	19547.5	20790.2	21549.0	21620.5	21384.1	21378.6
15638.0	30°	15770.0	16314.3	16836.7	17705.5	18909.7	20047.9	20168.9	20003.9	20020.4
14191.9	32.5°	14494.3	14945.2	15390.6	15973.4	16974.2	18299.3	18772.2	18618.3	18557.8
12987.7	35°	13191.1	13499.1	13955.4	14488.8	15170.6	16484.8	17304.1	17188.6	17128.1
11360.1	37.5°	11706.5	12234.4	12564.3	13163.6	13697.0	14741.7	15896.5	15880.0	15753.5
9974.5	40°	10183.4	10738.8	11239.1	11844.0	12256.4	13086.7	14367.8	14362.3	14378.8
8539.3	42.5°	8803.3	9314.6	9919.5	10579.3	10975.2	11580.1	12954.7	13031.7	13125.2
7357.1	45°	7555.1	8017.0	8577.8	9380.6	9859.0	10205.4	11426.1	11778.0	11772.5
6301.4	47.5°	6433.4	6867.8	7340.6	8121.4	8731.8	9045.2	10056.9	10557.3	10524.3
5168.7	50°	5399.6	5784.5	6279.4	6845.8	7665.0	7940.0	8693.3	9353.1	9303.6
4118.5	52.5°	4343.9	4877.3	5295.2	5812.0	6675.3	6944.7	7527.6	8170.9	8132.4
3090.2	55°	3387.1	3904.0	4409.9	4855.3	5581.1	5982.5	6400.4	7060.2	7049.2
2419.4	57.5°	2562.3	3128.7	3607.1	4030.5	4607.8	5102.7	5438.1	6037.5	6114.4
1655.1	60°	1897.0	2331.4	2848.3	3321.2	3777.5	4288.9	4514.4	5102.7	5135.7
1132.7	62.5°	1292.2	1770.5	2276.4	2705.3	3046.2	3574.1	3777.5	4261.4	4321.9
725.8	65°	896.3	1204.2	1781.5	2089.5	2507.4	2958.2	3161.7	3546.6	3667.6
417.9	67.5°	593.8	857.8	1391.1	1671.6	2084.0	2391.9	2650.3	2963.7	3095.7
263.9	70°	324.4	632.3	995.2	1319.7	1677.1	1974.0	2226.9	2479.9	2595.3
121.0	72.5°	219.9	423.4	692.8	1044.7	1352.7	1644.1	1869.5	2056.5	2062.0
71.5	75°	110.0	285.9	527.9	808.3	1055.7	1341.7	1545.1	1655.1	1523.1
44.0	77.5°	66.0	208.9	428.9	648.8	857.8	1083.2	1198.7	1259.2	1044.7
33.0	80°	38.5	148.5	335.4	516.9	593.8	797.3	907.3	923.8	698.3
22.0	82.5°	27.5	110.0	263.9	379.4	362.9	560.9	681.8	659.8	445.4
16.5	85°	16.5	77.0	165.0	236.4	219.9	368.4	395.9	406.9	258.4
11.0	87.5°	11.0	44.0	88.0	126.5	104.5	159.5	159.5	192.5	126.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
29714.4  
28977.6  
29098.6  
28746.7  
28262.8  
27669.0  
26970.6  
26134.8  
25018.6  
23935.4  
22577.3  
21367.6  
19937.9  
18563.3  
17045.7  
15858.0  
14378.8  
13075.7  
11783.5  
10535.3  
9347.6  
8214.9  
7076.7  
6081.5  
5185.2  
4332.9  
3640.1  
3079.2  
2551.4  
2012.5  
1424.1  
1006.2  
654.3  
412.4  
236.4  
110.0  
0.0

(END OF REPORT)