

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: P638826

Luminaire Tested: **EPH-VN-08-D-940-U-77-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638826  
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-940-U-77-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 7 distribution lens and Visor  
Light Source: (128) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30985.3 lumens  
Efficiency: N/A  
Efficacy: 63.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

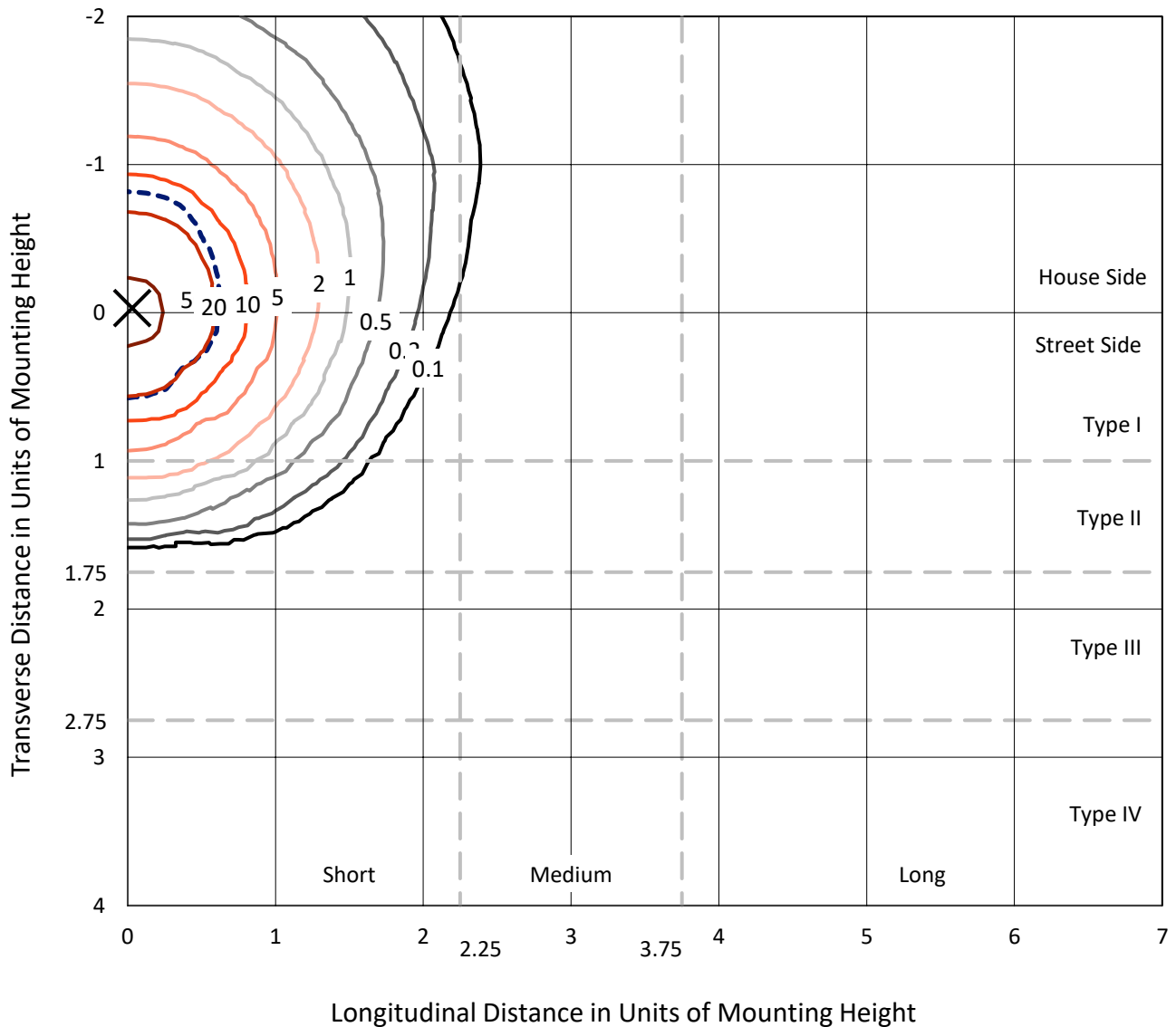
Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

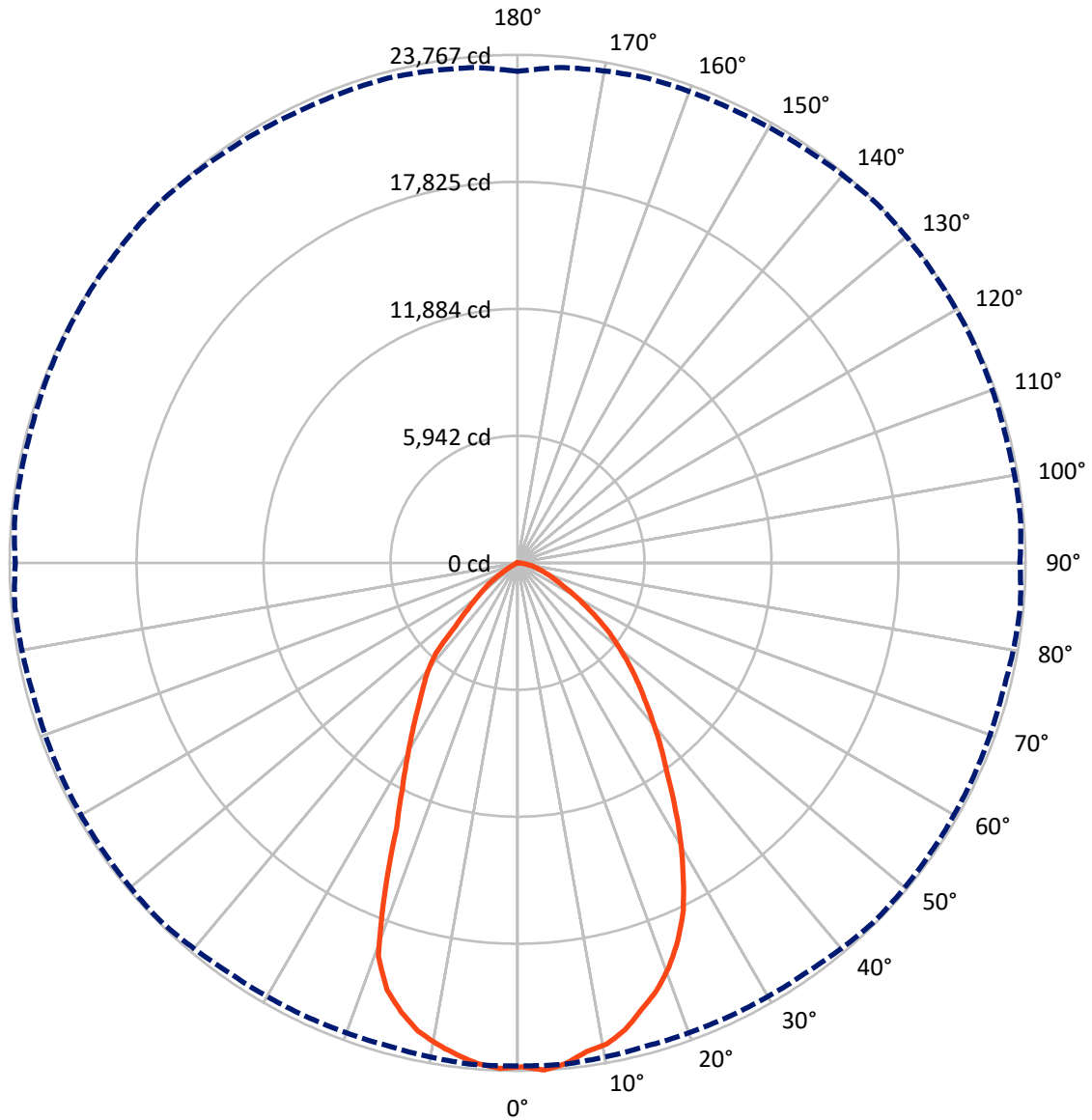
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 58.9 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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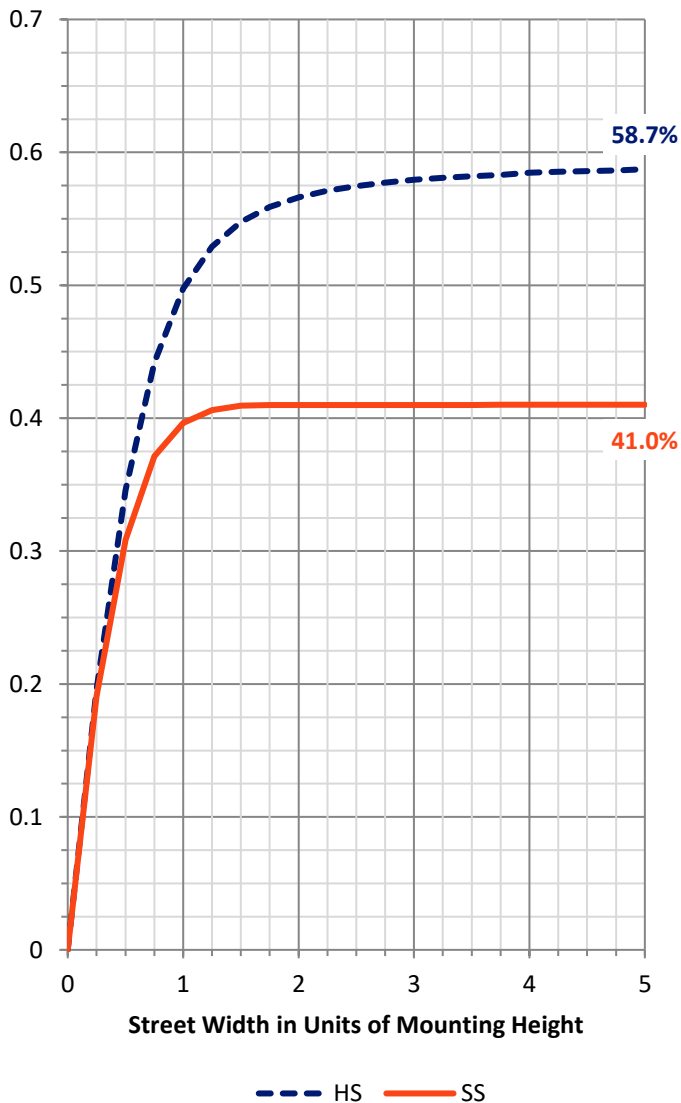
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18351.0	0.0	18351.0
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	12634.2	0.0	12634.2
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	30985.3	0.0	30985.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2211.4	7.1
10°-20°	5930.0	19.1
20°-30°	7232.0	23.3
30°-40°	6602.7	21.3
40°-50°	4771.6	15.4
50°-60°	2605.4	8.4
60°-70°	1077.2	3.5
70°-80°	436.3	1.4
80°-90°	118.7	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°	30985.3	100.0
0°-180°	30985.3	100.0

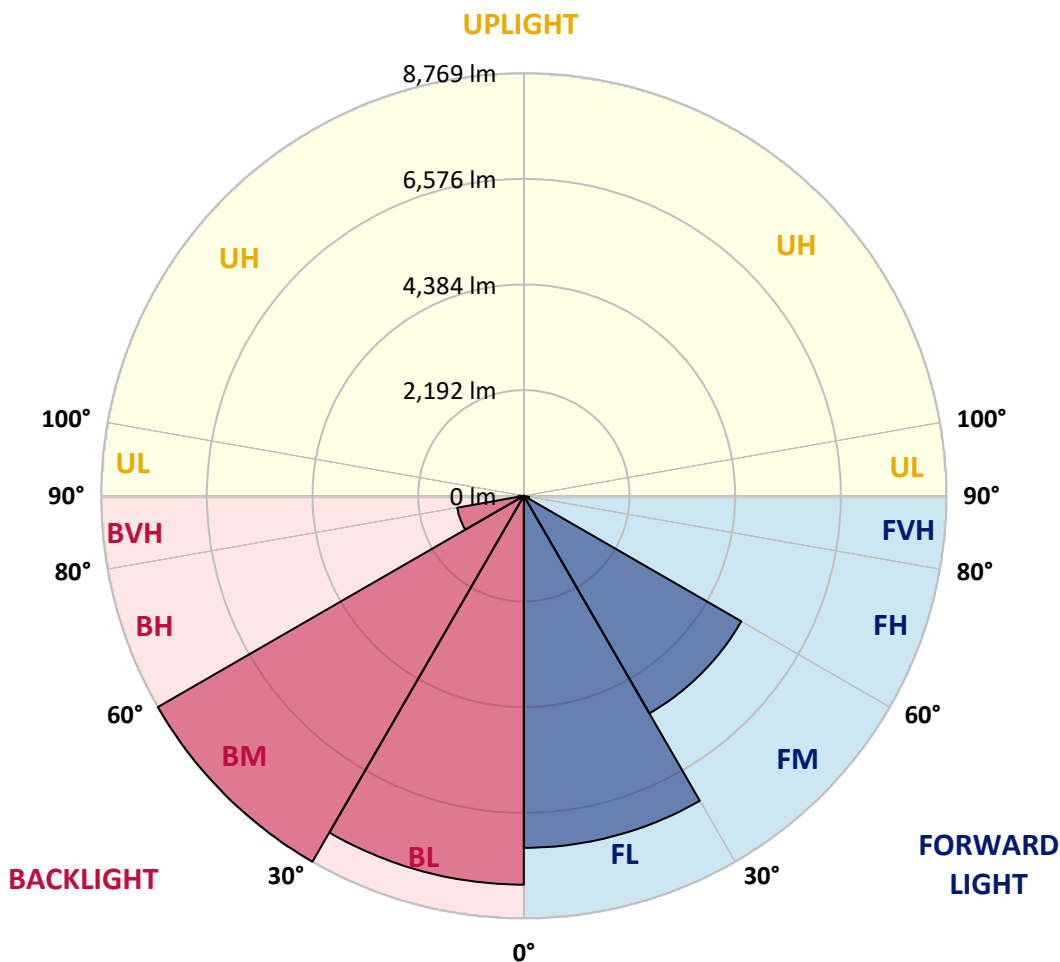


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7304.4	23.6			
FM (30°-60°)	5211.1	16.8			
FH (60°-80°)	109.2	0.4			G0/660
FVH (80°-90°)	9.5	0.0			G0/10
BL (0°-30°)	8069.0	26.0	B5		
BM (30°-60°)	8768.6	28.3	B5		
BH (60°-80°)	1404.3	4.5	B3/2500		G3/2500
BVH (80°-90°)	109.2	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°	23579.7	23579.7	23579.7	23579.7	23579.7	23579.7	23579.7	23579.7	23579.7	23579.7
2.5°	23536.0	23566.6	23400.8	23418.2	23448.8	23671.3	23614.6	23562.2	23488.0	23614.6
5°	23505.5	23523.0	23348.4	23287.3	23313.5	23514.2	23331.0	23331.0	23313.5	23291.7
7.5°	23269.9	23278.6	23143.3	23034.3	23104.1	23195.7	23060.4	23125.9	23029.9	23104.1
10°	22916.4	22859.7	22698.3	22667.7	22746.3	22833.5	22741.9	22803.0	22715.7	22772.5
12.5°	22397.2	22309.9	22179.0	22139.8	22275.0	22392.8	22318.7	22283.8	22170.3	22309.9
15°	20394.4	20329.0	20625.7	21144.9	21611.8	21712.2	21633.6	21668.5	21432.9	21472.2
17.5°	16785.9	16663.7	16982.3	18212.7	19966.8	20891.8	20822.0	20595.1	20246.1	20324.6
20°	15254.4	15219.4	15184.5	15476.9	16703.0	19508.6	19604.6	19028.7	18531.3	18422.2
22.5°	14390.4	14377.3	14342.4	14407.9	14730.8	16532.8	17632.4	17100.1	16768.4	16737.9
25°	13600.6	13578.8	13474.1	13557.0	13557.0	13661.7	15071.1	15394.0	15101.6	15066.7
27.5°	12797.8	12758.5	12741.1	12780.3	12579.6	11872.7	12230.5	13805.7	13653.0	13661.7
30°	11929.5	11916.4	11868.4	11951.3	11331.7	10454.6	10227.7	12365.8	12396.3	12387.6
32.5°	10637.9	10694.6	10912.8	11004.4	9983.4	9259.1	8879.5	10699.0	11323.0	11309.9
35°	7727.5	7727.5	8438.8	9760.9	8748.6	8203.1	7998.1	9071.5	10262.7	10306.3
37.5°	6353.1	6374.9	6514.5	7116.7	7548.6	7356.6	7295.6	7635.9	8901.3	8971.1
40°	5716.0	5716.0	5716.0	5467.3	5454.2	6628.0	6593.1	6484.0	7688.3	7841.0
42.5°	5135.7	5148.8	5157.5	4529.2	4180.1	5729.1	5650.6	5484.8	6601.8	6780.7
45°	4537.9	4559.7	4585.9	3787.4	3634.7	4123.4	4782.3	4599.0	5528.4	5759.7
47.5°	2770.7	2805.6	3399.1	3211.4	3228.9	3180.9	3900.9	3870.3	4533.5	4860.8
50°	1871.9	1885.0	1941.7	2037.7	2770.7	2500.2	2762.0	3202.7	3442.7	3940.1
52.5°	1570.8	1592.6	1453.0	1322.1	1819.5	1954.8	1928.6	2378.0	2474.0	3089.3
55°	1103.9	1173.7	1108.3	1095.2	1034.1	1518.5	1461.7	1828.3	1889.3	2347.5
57.5°	113.4	130.9	226.9	816.0	676.3	859.6	1042.8	1339.6	1400.6	1732.3
60°	8.7	8.7	21.8	113.4	493.1	514.9	720.0	824.7	942.5	1208.7
62.5°	0.0	4.4	8.7	17.5	78.5	274.9	362.2	432.0	567.2	781.0
65°	0.0	0.0	4.4	13.1	17.5	104.7	139.6	226.9	309.8	484.3
67.5°	0.0	0.0	4.4	8.7	13.1	26.2	48.0	82.9	165.8	274.9
70°	0.0	0.0	4.4	8.7	13.1	21.8	34.9	52.4	74.2	148.4
72.5°	0.0	0.0	4.4	4.4	8.7	21.8	26.2	34.9	52.4	74.2
75°	0.0	0.0	4.4	4.4	13.1	26.2	21.8	26.2	34.9	48.0
77.5°	0.0	0.0	4.4	8.7	13.1	26.2	21.8	26.2	26.2	30.5
80°	0.0	0.0	4.4	8.7	17.5	30.5	26.2	26.2	21.8	21.8
82.5°	0.0	0.0	4.4	13.1	17.5	39.3	39.3	34.9	17.5	13.1
85°	0.0	0.0	8.7	17.5	26.2	43.6	43.6	34.9	13.1	8.7
87.5°	0.0	0.0	8.7	13.1	21.8	30.5	43.6	34.9	13.1	4.4
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°
23579.7	0°	23579.7	23579.7	23579.7	23579.7	23579.7	23579.7	23579.7	23579.7	23579.7
23505.5	2.5°	23623.3	23597.1	23684.4	23719.3	23767.3	23584.0	23470.6	23475.0	23265.5
23239.3	5°	23379.0	23383.3	23496.8	23488.0	23536.0	23435.7	23392.0	23317.9	23134.6
22903.4	7.5°	23069.2	23029.9	23139.0	23221.9	23099.7	23169.5	23069.2	23104.1	22995.0
22606.6	10°	22829.2	22737.5	22837.9	22894.6	22899.0	22829.2	22733.2	22641.5	22602.3
22144.1	12.5°	22296.8	22179.0	22349.2	22427.7	22414.7	22279.4	22170.3	22192.1	22065.6
21332.5	15°	21563.8	21568.2	21690.3	21764.5	21694.7	21664.2	21672.9	21620.5	21511.4
20211.1	17.5°	20442.4	20507.9	20830.7	21009.6	21048.9	20987.8	20957.3	20896.2	20787.1
18422.2	20°	18574.9	18967.6	19543.6	20097.7	20206.8	20189.3	20080.2	20054.1	19993.0
16650.6	22.5°	16934.3	17226.6	17894.2	18758.1	19203.2	19246.8	19115.9	19076.7	19011.2
15066.7	25°	15236.9	15551.1	16153.2	17091.3	18012.0	18199.6	18177.8	18060.0	17990.2
13661.7	27.5°	13805.7	14119.9	14665.3	15511.8	16497.9	17100.1	17156.8	16969.2	16964.8
12409.4	30°	12514.2	12946.1	13360.7	14050.1	15005.6	15908.9	16004.9	15874.0	15887.0
11261.9	32.5°	11501.9	11859.7	12213.1	12675.6	13469.7	14521.3	14896.6	14774.4	14726.4
10306.3	35°	10467.7	10712.1	11074.2	11497.5	12038.5	13081.4	13731.5	13639.9	13591.9
9014.7	37.5°	9289.6	9708.5	9970.3	10445.9	10869.2	11698.2	12614.5	12601.4	12501.1
7915.2	40°	8081.0	8521.7	8918.7	9398.7	9726.0	10384.8	11401.5	11397.1	11410.2
6776.3	42.5°	6985.8	7391.6	7871.5	8395.1	8709.3	9189.3	10280.1	10341.2	10415.4
5838.2	45°	5995.3	6361.8	6806.9	7443.9	7823.5	8098.4	9067.1	9346.3	9342.0
5000.4	47.5°	5105.1	5449.9	5825.1	6444.7	6929.0	7177.8	7980.6	8377.7	8351.5
4101.6	50°	4284.8	4590.3	4983.0	5432.4	6082.5	6300.7	6898.5	7422.1	7382.8
3268.2	52.5°	3447.1	3870.3	4201.9	4612.1	5297.1	5510.9	5973.5	6484.0	6453.4
2452.2	55°	2687.8	3098.0	3499.4	3852.9	4428.8	4747.4	5079.0	5602.6	5593.8
1919.9	57.5°	2033.3	2482.8	2862.4	3198.4	3656.5	4049.2	4315.4	4791.0	4852.1
1313.4	60°	1505.4	1850.1	2260.2	2635.5	2997.6	3403.4	3582.3	4049.2	4075.4
898.9	62.5°	1025.4	1405.0	1806.4	2146.8	2417.3	2836.2	2997.6	3381.6	3429.6
576.0	65°	711.2	955.6	1413.7	1658.1	1989.7	2347.5	2508.9	2814.4	2910.4
331.6	67.5°	471.2	680.7	1103.9	1326.5	1653.7	1898.1	2103.1	2351.9	2456.6
209.4	70°	257.4	501.8	789.8	1047.2	1330.8	1566.5	1767.2	1967.9	2059.5
96.0	72.5°	174.5	336.0	549.8	829.0	1073.4	1304.6	1483.5	1631.9	1636.3
56.7	75°	87.3	226.9	418.9	641.4	837.8	1064.7	1226.1	1313.4	1208.7
34.9	77.5°	52.4	165.8	340.3	514.9	680.7	859.6	951.2	999.2	829.0
26.2	80°	30.5	117.8	266.2	410.2	471.2	632.7	720.0	733.0	554.1
17.5	82.5°	21.8	87.3	209.4	301.1	288.0	445.1	541.1	523.6	353.4
13.1	85°	13.1	61.1	130.9	187.6	174.5	292.3	314.2	322.9	205.1
8.7	87.5°	8.7	34.9	69.8	100.4	82.9	126.5	126.5	152.7	100.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
23579.7
22995.0
23091.0
22811.7
22427.7
21956.5
21402.4
20739.1
19853.4
18993.8
17916.0
16956.1
15821.6
14730.8
13526.5
12584.0
11410.2
10376.1
9350.7
8360.2
7417.7
6518.9
5615.7
4825.9
4114.7
3438.3
2888.6
2443.5
2024.6
1597.0
1130.1
798.5
519.2
327.3
187.6
87.3
0.0

(END OF REPORT)