

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: P638821

Luminaire Tested: **EPH-VN-08-E-935-U-77-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638821  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-08-E-935-U-77-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 7 distribution lens and Visor  
Light Source: (128) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34968 lumens  
Efficiency: N/A  
Efficacy: 55.8 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): 626.8  
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

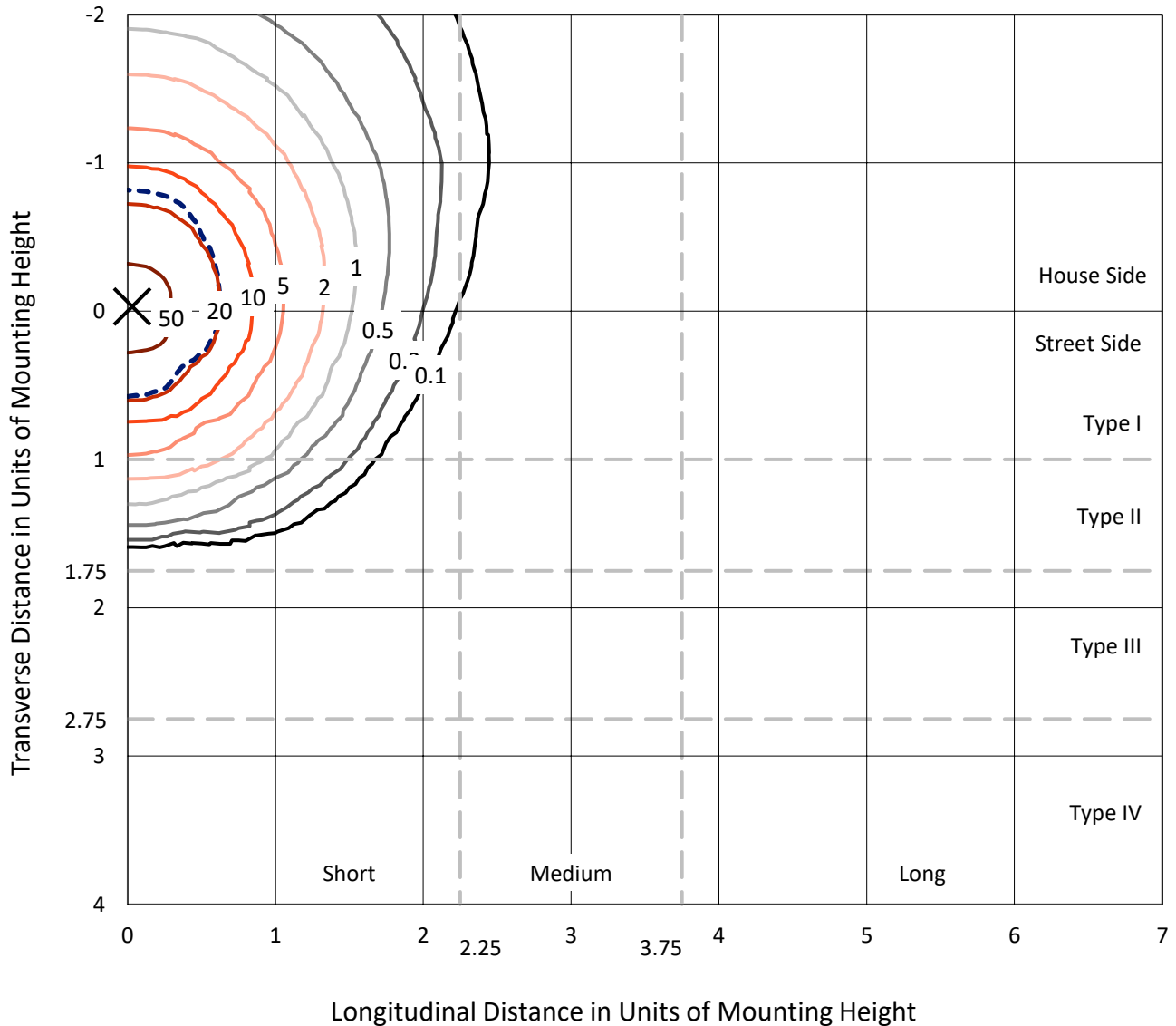




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### Iso-Footcandle Lines of Horizontal Illumination

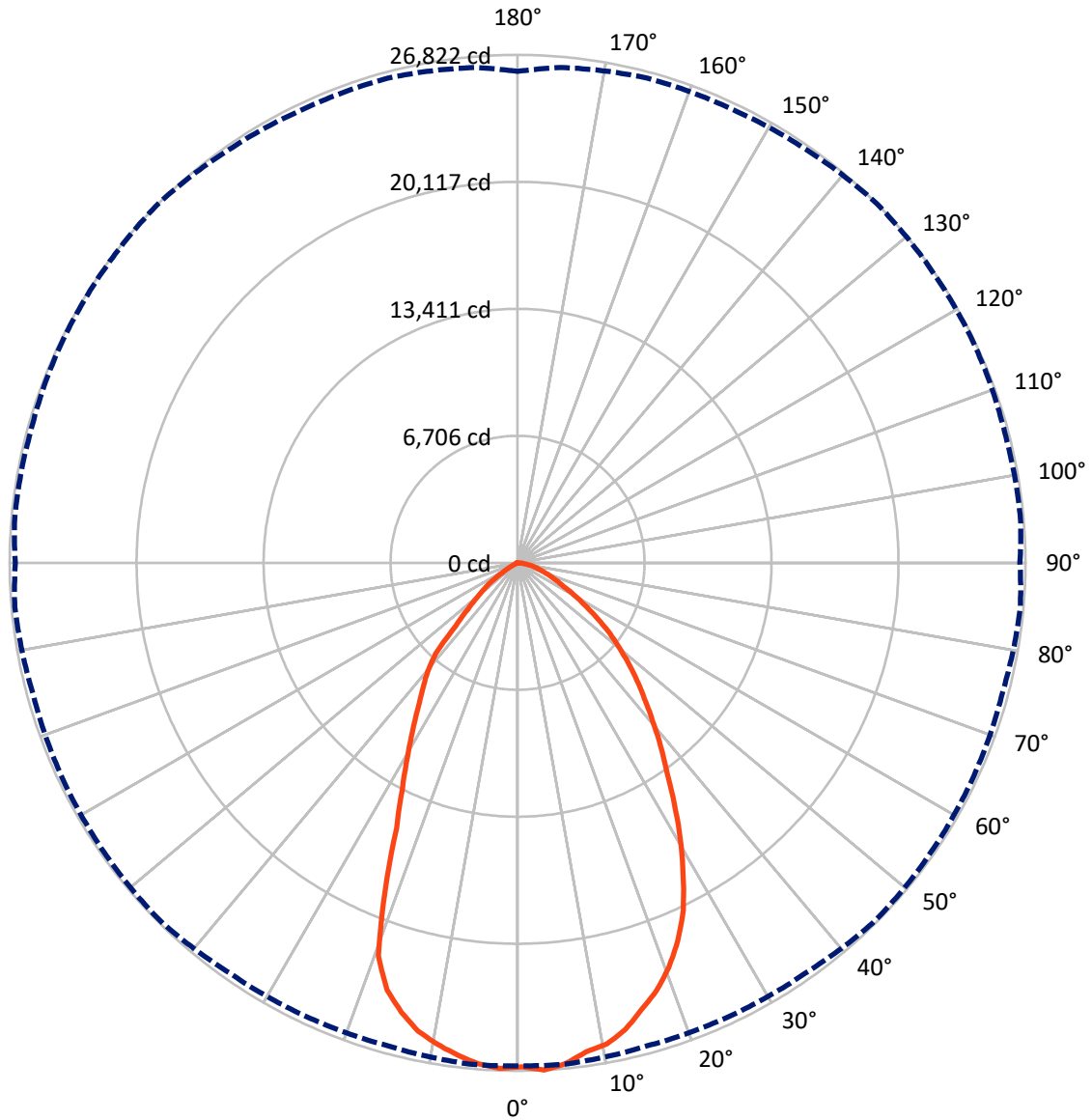
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 66.5 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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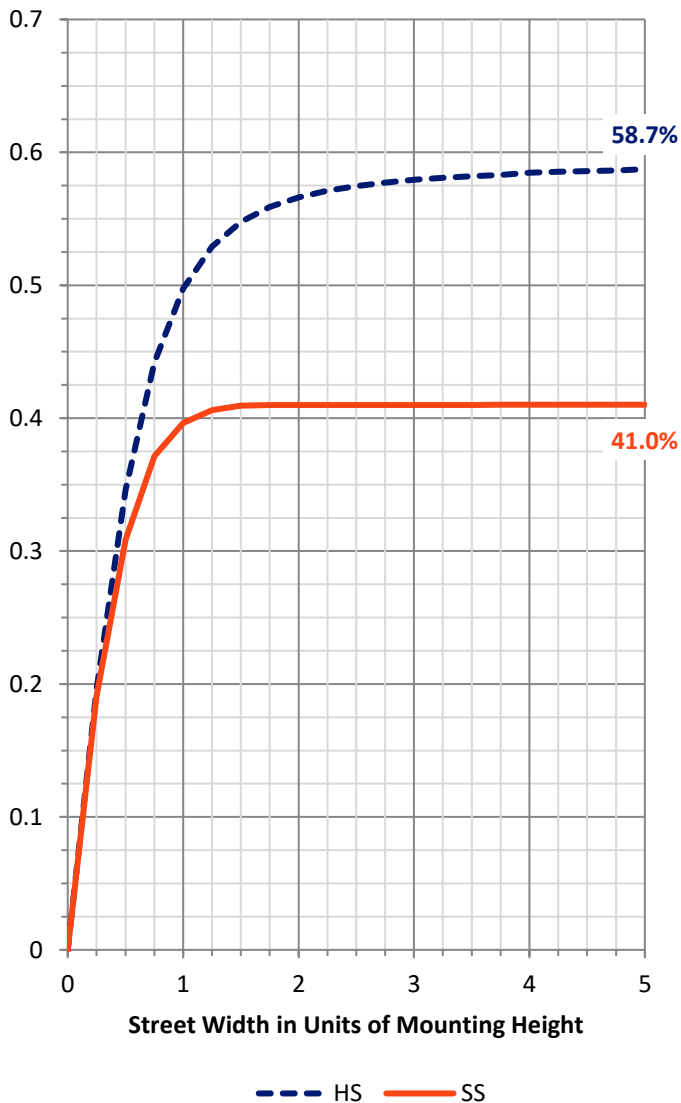
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20709.9	0.0	20709.9
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	14258.2	0.0	14258.2
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	34968.0	0.0	34968.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2495.6	7.1
10°-20°	6692.2	19.1
20°-30°	8161.6	23.3
30°-40°	7451.4	21.3
40°-50°	5385.0	15.4
50°-60°	2940.2	8.4
60°-70°	1215.7	3.5
70°-80°	492.3	1.4
80°-90°	133.9	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°	34968.0	100.0
0°-180°	34968.0	100.0



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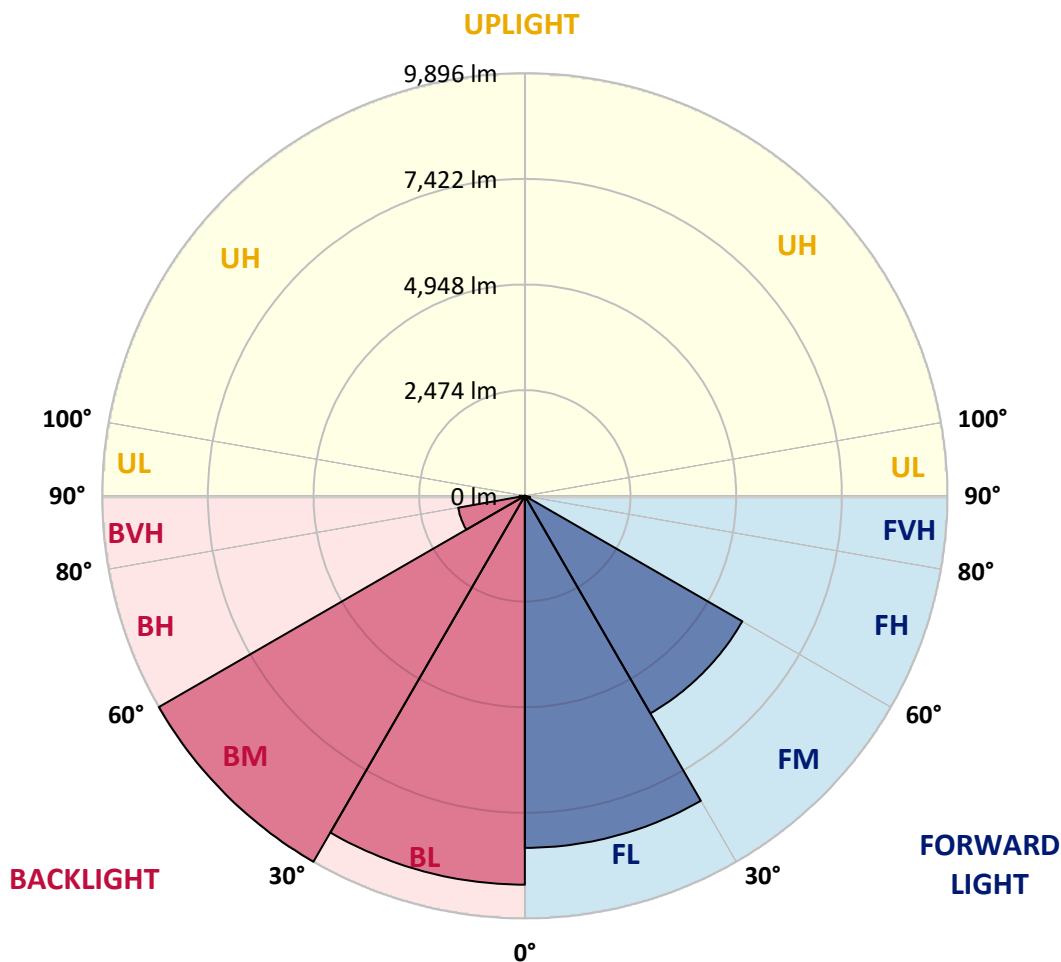
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8243.3	23.6			
FM (30°-60°)	5881.0	16.8			
FH (60°-80°)	123.2	0.4			G0/660
FVH (80°-90°)	10.7	0.0			G1/100
BL (0°-30°)	9106.2	26.0	B5		
BM (30°-60°)	9895.7	28.3	B5		
BH (60°-80°)	1584.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	123.2	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°	26610.6	26610.6	26610.6	26610.6	26610.6	26610.6	26610.6	26610.6	26610.6	26610.6
2.5°	26561.3	26595.8	26408.7	26428.4	26462.8	26714.0	26649.9	26590.9	26507.1	26649.9
5°	26526.8	26546.5	26349.6	26280.6	26310.2	26536.7	26329.9	26329.9	26310.2	26285.6
7.5°	26260.9	26270.8	26118.1	25995.0	26073.8	26177.2	26024.6	26098.4	25990.1	26073.8
10°	25862.1	25798.1	25615.9	25581.4	25670.0	25768.5	25665.1	25734.0	25635.6	25699.6
12.5°	25276.1	25177.6	25029.9	24985.6	25138.2	25271.2	25187.5	25148.1	25020.0	25177.6
15°	23015.9	22942.0	23276.8	23862.8	24389.7	24503.0	24414.3	24453.7	24187.8	24232.2
17.5°	18943.5	18805.6	19165.1	20553.7	22533.3	23577.2	23498.4	23242.4	22848.4	22937.1
20°	17215.1	17175.7	17136.3	17466.3	18850.0	22016.2	22124.6	21474.6	20913.2	20790.1
22.5°	16240.1	16225.3	16186.0	16259.8	16624.2	18657.9	19898.8	19298.1	18923.8	18889.4
25°	15348.8	15324.2	15206.0	15299.6	15299.6	15417.8	17008.3	17372.7	17042.8	17003.4
27.5°	14442.8	14398.5	14378.8	14423.1	14196.6	13398.8	13802.6	15580.3	15407.9	15417.8
30°	13462.9	13448.1	13393.9	13487.5	12788.2	11798.5	11542.4	13955.3	13989.7	13979.9
32.5°	12005.3	12069.3	12315.5	12418.9	11266.6	10449.2	10020.8	12074.2	12778.4	12763.6
35°	8720.8	8720.8	9523.5	11015.5	9873.1	9257.6	9026.1	10237.5	11581.8	11631.0
37.5°	7169.7	7194.3	7351.9	8031.4	8518.9	8302.3	8233.3	8617.4	10045.4	10124.2
40°	6450.7	6450.7	6450.7	6170.1	6155.3	7479.9	7440.5	7317.4	8676.5	8848.8
42.5°	5795.8	5810.6	5820.4	5111.4	4717.4	6465.5	6376.9	6189.8	7450.4	7652.3
45°	5121.2	5145.8	5175.4	4274.2	4101.9	4653.4	5397.0	5190.1	6239.0	6500.0
47.5°	3126.9	3166.3	3836.0	3624.2	3643.9	3589.8	4402.3	4367.8	5116.3	5485.6
50°	2112.5	2127.3	2191.3	2299.6	3126.9	2821.6	3117.0	3614.4	3885.2	4446.6
52.5°	1772.7	1797.3	1639.8	1492.0	2053.4	2206.1	2176.5	2683.7	2792.0	3486.4
55°	1245.8	1324.6	1250.8	1236.0	1167.0	1713.6	1649.6	2063.3	2132.2	2649.2
57.5°	128.0	147.7	256.1	920.8	763.3	970.1	1176.9	1511.7	1580.7	1954.9
60°	9.8	9.8	24.6	128.0	556.4	581.1	812.5	930.7	1063.6	1364.0
62.5°	0.0	4.9	9.8	19.7	88.6	310.2	408.7	487.5	640.2	881.4
65°	0.0	0.0	4.9	14.8	19.7	118.2	157.6	256.1	349.6	546.6
67.5°	0.0	0.0	4.9	9.8	14.8	29.5	54.2	93.6	187.1	310.2
70°	0.0	0.0	4.9	9.8	14.8	24.6	39.4	59.1	83.7	167.4
72.5°	0.0	0.0	4.9	4.9	9.8	24.6	29.5	39.4	59.1	83.7
75°	0.0	0.0	4.9	4.9	14.8	29.5	24.6	29.5	39.4	54.2
77.5°	0.0	0.0	4.9	9.8	14.8	29.5	24.6	29.5	29.5	34.5
80°	0.0	0.0	4.9	9.8	19.7	34.5	29.5	29.5	24.6	24.6
82.5°	0.0	0.0	4.9	14.8	19.7	44.3	44.3	39.4	19.7	14.8
85°	0.0	0.0	9.8	19.7	29.5	49.2	49.2	39.4	14.8	9.8
87.5°	0.0	0.0	9.8	14.8	24.6	34.5	49.2	39.4	14.8	4.9
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°
26610.6	0°	26610.6	26610.6	26610.6	26610.6	26610.6	26610.6	26610.6	26610.6	26610.6
26526.8	2.5°	26659.8	26630.3	26728.7	26768.1	26822.3	26615.5	26487.4	26492.4	26256.0
26226.5	5°	26384.0	26389.0	26517.0	26507.1	26561.3	26448.1	26398.8	26315.1	26108.3
25847.3	7.5°	26034.4	25990.1	26113.2	26206.8	26068.9	26147.7	26034.4	26073.8	25950.7
25512.5	10°	25763.6	25660.2	25773.4	25837.5	25842.4	25763.6	25655.3	25551.8	25507.5
24990.5	12.5°	25162.8	25029.9	25221.9	25310.6	25295.8	25143.1	25020.0	25044.6	24901.8
24074.6	15°	24335.6	24340.5	24478.4	24562.1	24483.3	24448.8	24458.7	24399.6	24276.5
22809.0	17.5°	23070.0	23143.9	23508.3	23710.2	23754.5	23685.6	23651.1	23582.2	23459.0
20790.1	20°	20962.5	21405.6	22055.6	22681.0	22804.1	22784.4	22661.3	22631.8	22562.8
18790.9	22.5°	19110.9	19440.9	20194.3	21169.3	21671.5	21720.8	21573.1	21528.7	21454.9
17003.4	25°	17195.4	17550.0	18229.5	19288.2	20327.2	20539.0	20514.4	20381.4	20302.6
15417.8	27.5°	15580.3	15934.8	16550.3	17505.6	18618.5	19298.1	19362.1	19150.3	19145.4
14004.5	30°	14122.7	14610.2	15078.0	15856.0	16934.4	17953.8	18062.1	17914.4	17929.1
12709.4	32.5°	12980.3	13384.1	13782.9	14304.9	15201.1	16387.8	16811.3	16673.5	16619.3
11631.0	35°	11813.2	12089.0	12497.7	12975.4	13586.0	14762.9	15496.6	15393.2	15339.0
10173.5	37.5°	10483.7	10956.4	11251.9	11788.6	12266.3	13201.9	14236.0	14221.2	14107.9
8932.6	40°	9119.7	9617.0	10065.1	10606.8	10976.1	11719.7	12867.0	12862.1	12876.9
7647.3	42.5°	7883.7	8341.7	8883.3	9474.2	9828.8	10370.4	11601.5	11670.4	11754.1
6588.6	45°	6765.9	7179.5	7681.8	8400.7	8829.1	9139.4	10232.6	10547.7	10542.8
5643.2	47.5°	5761.4	6150.4	6573.9	7273.1	7819.7	8100.4	9006.4	9454.5	9425.0
4628.8	50°	4835.6	5180.3	5623.5	6130.7	6864.4	7110.6	7785.2	8376.1	8331.8
3688.3	52.5°	3890.1	4367.8	4742.0	5204.9	5978.0	6219.3	6741.3	7317.4	7282.9
2767.4	55°	3033.3	3496.2	3949.2	4348.1	4998.1	5357.6	5731.8	6322.7	6312.9
2166.7	57.5°	2294.7	2801.9	3230.3	3609.5	4126.5	4569.7	4870.1	5406.8	5475.7
1482.2	60°	1698.9	2087.9	2550.8	2974.2	3382.9	3840.9	4042.8	4569.7	4599.2
1014.4	62.5°	1157.2	1585.6	2038.6	2422.7	2728.0	3200.8	3382.9	3816.3	3870.4
650.0	65°	802.6	1078.4	1595.5	1871.2	2245.5	2649.2	2831.4	3176.1	3284.5
374.2	67.5°	531.8	768.2	1245.8	1497.0	1866.3	2142.0	2373.5	2654.2	2772.3
236.4	70°	290.5	566.3	891.3	1181.8	1501.9	1767.8	1994.3	2220.8	2324.2
108.3	72.5°	197.0	379.2	620.5	935.6	1211.4	1472.3	1674.2	1841.7	1846.6
64.0	75°	98.5	256.1	472.7	723.9	945.5	1201.5	1383.7	1482.2	1364.0
39.4	77.5°	59.1	187.1	384.1	581.1	768.2	970.1	1073.5	1127.6	935.6
29.5	80°	34.5	133.0	300.4	462.9	531.8	714.0	812.5	827.3	625.4
19.7	82.5°	24.6	98.5	236.4	339.8	325.0	502.3	610.6	590.9	398.9
14.8	85°	14.8	68.9	147.7	211.7	197.0	329.9	354.5	364.4	231.4
9.8	87.5°	9.8	39.4	78.8	113.3	93.6	142.8	142.8	172.3	113.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
26610.6  
*25950.7*  
26059.0  
25743.9  
25310.6  
24778.7  
24153.4  
23404.9  
22405.3  
21435.2  
20218.9  
19135.6  
17855.3  
16624.2  
15265.1  
14201.5  
12876.9  
11709.8  
10552.6  
9434.8  
8371.2  
7356.8  
6337.5  
5446.2  
4643.6  
3880.3  
3259.8  
2757.6  
2284.8  
1802.3  
1275.4  
901.1  
586.0  
369.3  
211.7  
98.5  
0.0

(END OF REPORT)