

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: P638796

Luminaire Tested: **EPH-VN-08-D-740-U-77-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638796  
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-740-U-77-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 7 distribution lens and Visor  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42880.2 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

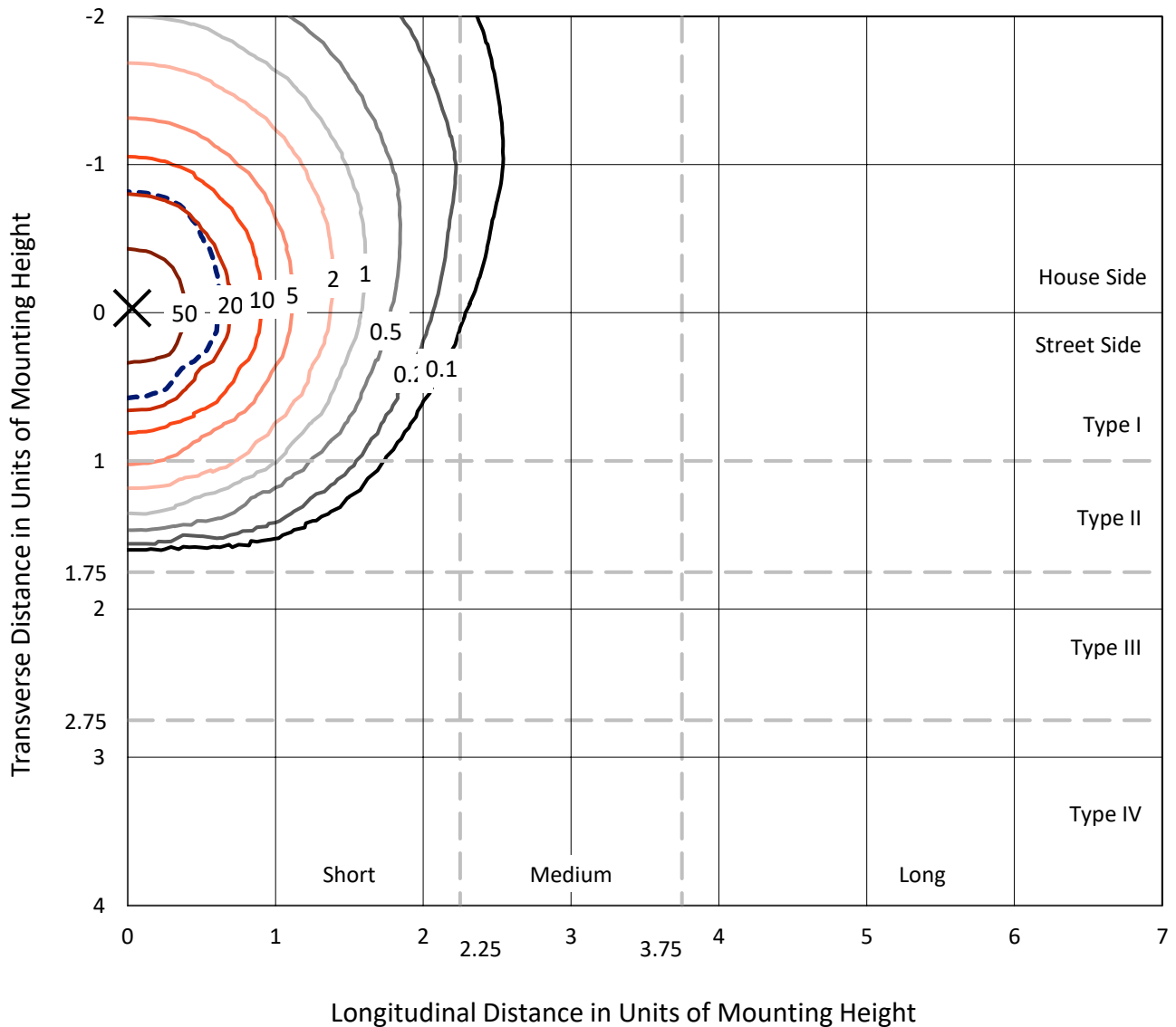
Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

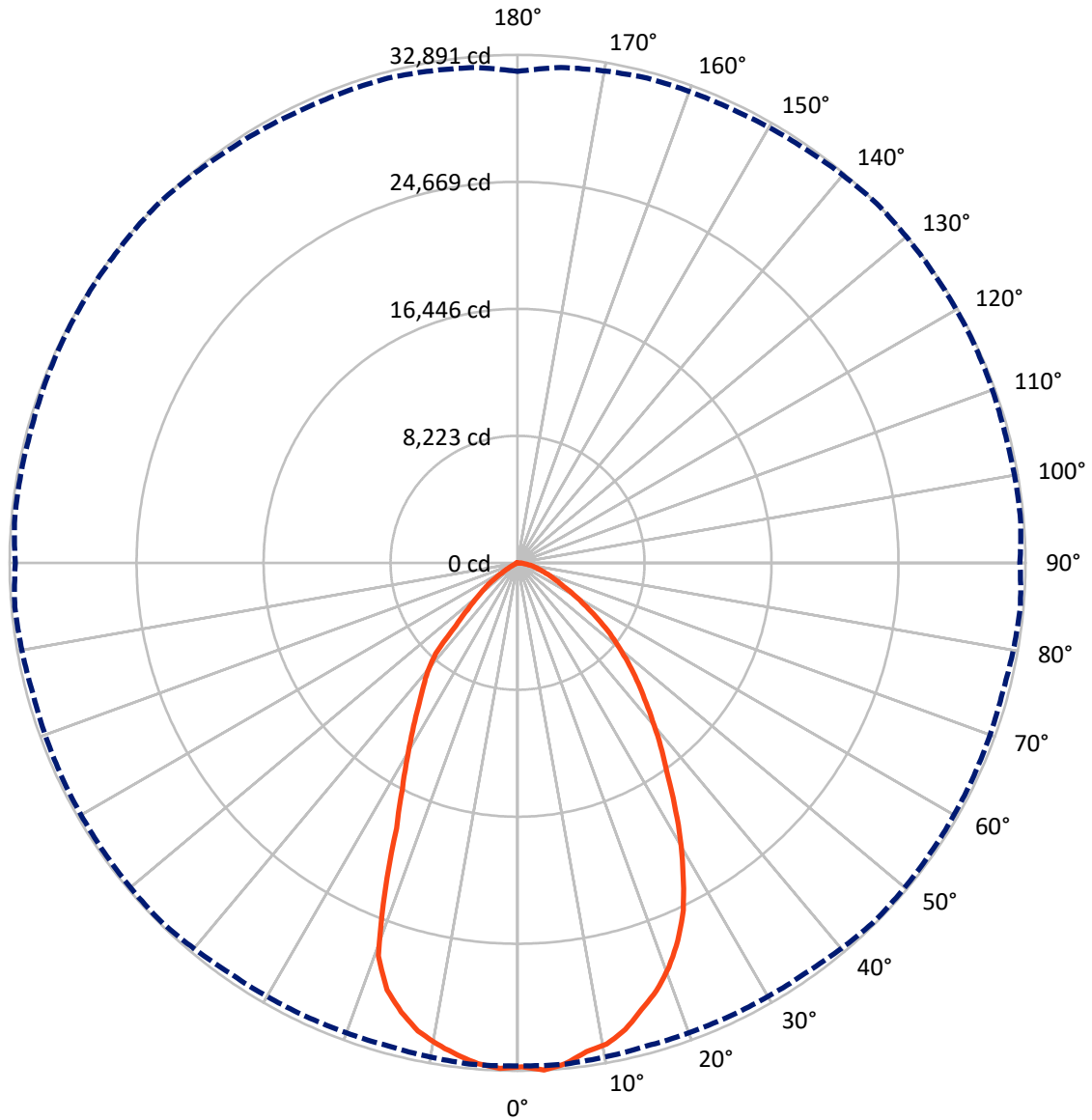
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 81.6 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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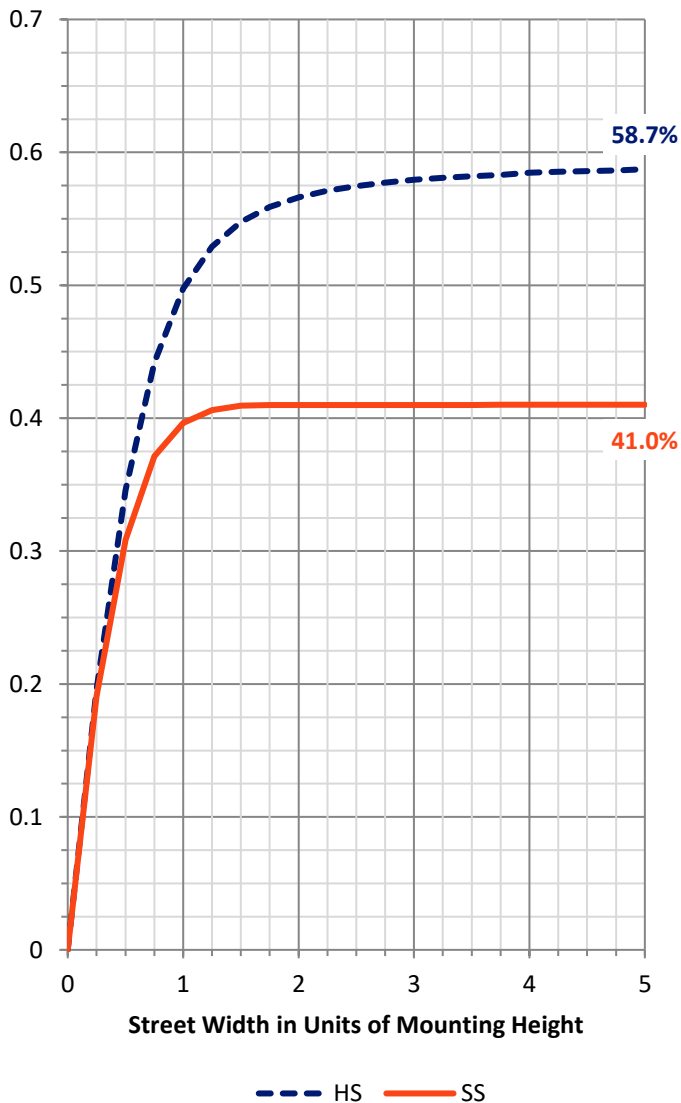
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25395.9	0.0	25395.9
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	17484.4	0.0	17484.4
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	42880.2	0.0	42880.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3060.3	7.1
10°-20°	8206.5	19.1
20°-30°	10008.3	23.3
30°-40°	9137.4	21.3
40°-50°	6603.4	15.4
50°-60°	3605.5	8.4
60°-70°	1490.8	3.5
70°-80°	603.8	1.4
80°-90°	164.2	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°	42880.2	100.0
0°-180°	42880.2	100.0

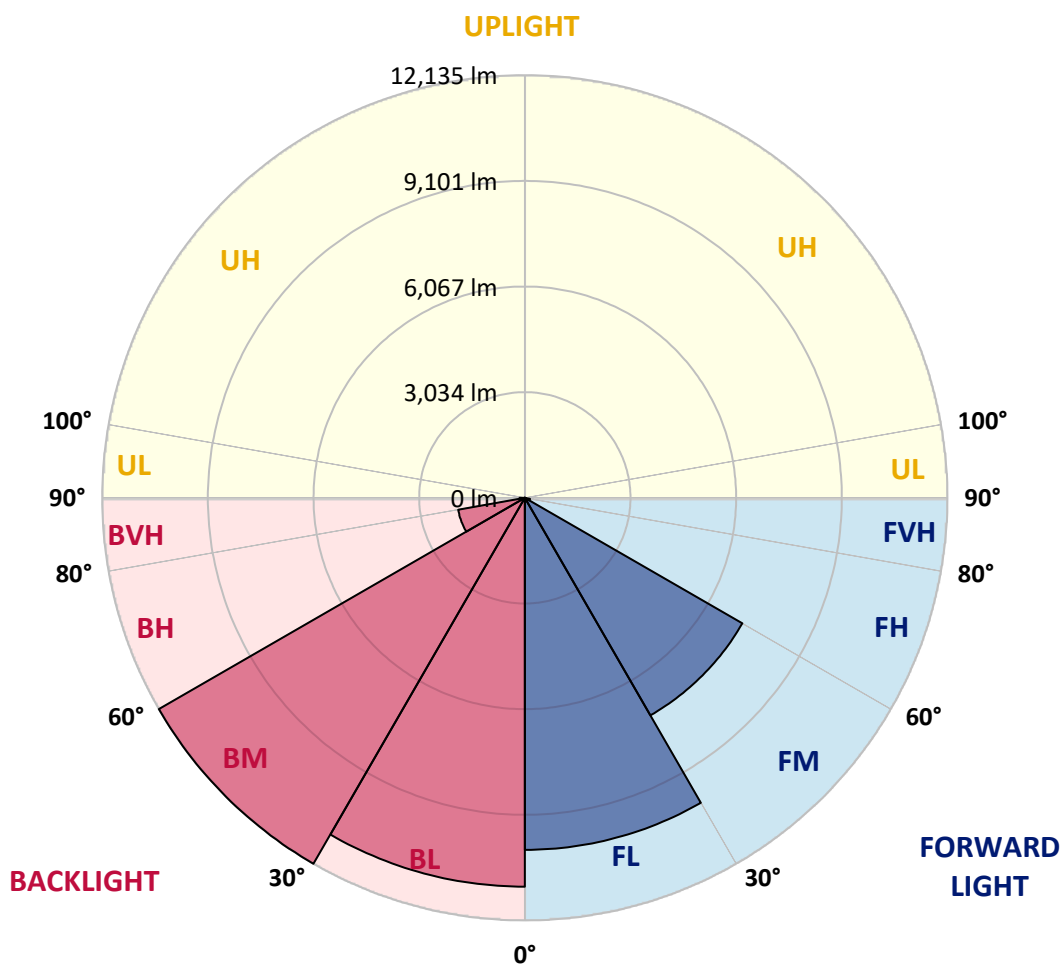


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10108.5	23.6			
FM (30°-60°)	7211.7	16.8			
FH (60°-80°)	151.1	0.4			G0/660
FVH (80°-90°)	13.2	0.0			G1/100
BL (0°-30°)	11166.6	26.0	B5		
BM (30°-60°)	12134.7	28.3	B5		
BH (60°-80°)	1943.4	4.5	B3/2500		G3/2500
BVH (80°-90°)	151.1	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°	32631.7	32631.7	32631.7	32631.7	32631.7	32631.7	32631.7	32631.7	32631.7	32631.7
2.5°	32571.3	32613.6	32384.1	32408.3	32450.6	32758.5	32680.0	32607.6	32504.9	32680.0
5°	32529.1	32553.2	32311.7	32227.1	32263.4	32541.1	32287.5	32287.5	32263.4	32233.2
7.5°	32203.0	32215.1	32027.9	31876.9	31973.5	32100.3	31913.1	32003.7	31870.9	31973.5
10°	31713.9	31635.4	31411.9	31369.7	31478.4	31599.1	31472.3	31556.9	31436.1	31514.6
12.5°	30995.3	30874.5	30693.4	30639.0	30826.2	30989.3	30886.6	30838.3	30681.3	30874.5
15°	28223.7	28133.1	28543.7	29262.3	29908.4	30047.3	29938.6	29986.9	29660.8	29715.1
17.5°	23229.9	23060.8	23501.6	25204.4	27631.9	28912.0	28815.4	28501.4	28018.3	28127.0
20°	21110.4	21062.1	21013.8	21418.3	23115.1	26997.9	27130.7	26333.6	25645.2	25494.3
22.5°	19914.8	19896.6	19848.3	19938.9	20385.8	22879.6	24401.3	23664.6	23205.7	23163.4
25°	18821.8	18791.6	18646.7	18761.4	18761.4	18906.3	20856.8	21303.6	20899.0	20850.7
27.5°	17710.7	17656.4	17632.2	17686.6	17408.8	16430.6	16925.7	19105.6	18894.3	18906.3
30°	16509.1	16491.0	16424.5	16539.3	15681.8	14468.1	14154.1	17112.9	17155.2	17143.1
32.5°	14721.7	14800.2	15102.1	15228.9	13815.9	12813.6	12288.2	14806.2	15669.7	15651.6
35°	10694.1	10694.1	11678.3	13508.0	12107.1	11352.3	11068.5	12553.9	14202.4	14262.8
37.5°	8792.0	8822.2	9015.4	9848.7	10446.5	10180.8	10096.3	10567.3	12318.4	12415.0
40°	7910.4	7910.4	7910.4	7566.2	7548.0	9172.4	9124.1	8973.1	10639.7	10851.1
42.5°	7107.2	7125.4	7137.4	6267.9	5784.8	7928.5	7819.8	7590.3	9136.2	9383.7
45°	6280.0	6310.2	6346.4	5241.4	5030.0	5706.3	6618.1	6364.5	7650.7	7970.7
47.5°	3834.4	3882.7	4703.9	4444.3	4468.4	4402.0	5398.4	5356.1	6273.9	6726.8
50°	2590.5	2608.6	2687.1	2819.9	3834.4	3460.0	3822.3	4432.2	4764.3	5452.7
52.5°	2173.8	2204.0	2010.8	1829.6	2518.0	2705.2	2669.0	3290.9	3423.8	4275.2
55°	1527.7	1624.3	1533.8	1515.6	1431.1	2101.4	2022.9	2530.1	2614.6	3248.7
57.5°	157.0	181.2	314.0	1129.2	936.0	1189.6	1443.2	1853.8	1938.3	2397.3
60°	12.1	12.1	30.2	157.0	682.3	712.5	996.3	1141.3	1304.3	1672.6
62.5°	0.0	6.0	12.1	24.2	108.7	380.4	501.2	597.8	785.0	1080.9
65°	0.0	0.0	6.0	18.1	24.2	144.9	193.2	314.0	428.7	670.3
67.5°	0.0	0.0	6.0	12.1	18.1	36.2	66.4	114.7	229.5	380.4
70°	0.0	0.0	6.0	12.1	18.1	30.2	48.3	72.5	102.7	205.3
72.5°	0.0	0.0	6.0	6.0	12.1	30.2	36.2	48.3	72.5	102.7
75°	0.0	0.0	6.0	6.0	18.1	36.2	30.2	36.2	48.3	66.4
77.5°	0.0	0.0	6.0	12.1	18.1	36.2	30.2	36.2	36.2	42.3
80°	0.0	0.0	6.0	12.1	24.2	42.3	36.2	36.2	30.2	30.2
82.5°	0.0	0.0	6.0	18.1	24.2	54.3	54.3	48.3	24.2	18.1
85°	0.0	0.0	12.1	24.2	36.2	60.4	60.4	48.3	18.1	12.1
87.5°	0.0	0.0	12.1	18.1	30.2	42.3	60.4	48.3	18.1	6.0
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°
32631.7	0°	32631.7	32631.7	32631.7	32631.7	32631.7	32631.7	32631.7	32631.7	32631.7
32529.1	2.5°	32692.1	32655.9	32776.6	32824.9	32891.4	32637.8	32480.8	32486.8	32196.9
32160.7	5°	32353.9	32360.0	32517.0	32504.9	32571.3	32432.4	32372.1	32269.4	32015.8
31695.8	7.5°	31925.2	31870.9	32021.8	32136.6	31967.5	32064.1	31925.2	31973.5	31822.6
31285.1	10°	31593.1	31466.3	31605.2	31683.7	31689.7	31593.1	31460.3	31333.4	31279.1
30645.1	12.5°	30856.4	30693.4	30928.9	31037.6	31019.4	30832.3	30681.3	30711.5	30536.4
29521.9	15°	29842.0	29848.0	30017.1	30119.7	30023.1	29980.8	29992.9	29920.5	29769.5
27970.0	17.5°	28290.1	28380.7	28827.5	29075.1	29129.4	29044.9	29002.6	28918.1	28767.1
25494.3	20°	25705.6	26249.1	27046.2	27813.0	27964.0	27939.8	27788.9	27752.7	27668.1
23042.7	22.5°	23435.2	23839.7	24763.6	25959.2	26575.2	26635.5	26454.4	26400.0	26309.5
20850.7	25°	21086.2	21521.0	22354.3	23652.6	24926.7	25186.3	25156.1	24993.1	24896.5
18906.3	27.5°	19105.6	19540.4	20295.2	21466.6	22831.3	23664.6	23743.1	23483.5	23477.4
17173.3	30°	17318.2	17916.0	18489.7	19443.8	20766.2	22016.1	22149.0	21967.8	21985.9
15585.2	32.5°	15917.3	16412.5	16901.6	17541.7	18640.7	20095.9	20615.2	20446.1	20379.7
14262.8	35°	14486.2	14824.4	15325.6	15911.3	16660.0	18103.2	19003.0	18876.2	18809.7
12475.4	37.5°	12855.8	13435.5	13797.8	14456.0	15041.7	16189.0	17457.1	17439.0	17300.1
10953.7	40°	11183.2	11793.1	12342.6	13006.8	13459.7	14371.5	15778.4	15772.4	15790.5
9377.7	42.5°	9667.5	10229.1	10893.3	11618.0	12052.7	12716.9	14226.6	14311.1	14413.7
8079.4	45°	8296.8	8804.0	9420.0	10301.6	10826.9	11207.3	12547.9	12934.3	12928.3
6920.0	47.5°	7065.0	7542.0	8061.3	8918.8	9589.0	9933.2	11044.3	11593.8	11557.6
5676.1	50°	5929.7	6352.4	6895.9	7517.9	8417.6	8719.5	9546.8	10271.4	10217.0
4522.8	52.5°	4770.4	5356.1	5815.0	6382.6	7330.7	7626.5	8266.6	8973.1	8930.8
3393.6	55°	3719.7	4287.3	4842.8	5331.9	6129.0	6569.8	7028.7	7753.4	7741.3
2656.9	57.5°	2813.9	3435.9	3961.2	4426.2	5060.2	5603.7	5972.0	6630.2	6714.7
1817.6	60°	2083.3	2560.3	3127.9	3647.2	4148.4	4710.0	4957.6	5603.7	5639.9
1243.9	62.5°	1419.0	1944.4	2499.9	2970.9	3345.3	3925.0	4148.4	4679.8	4746.2
797.1	65°	984.3	1322.4	1956.5	2294.6	2753.5	3248.7	3472.1	3894.8	4027.6
458.9	67.5°	652.2	942.0	1527.7	1835.7	2288.6	2626.7	2910.5	3254.7	3399.6
289.8	70°	356.3	694.4	1093.0	1449.2	1841.7	2167.8	2445.6	2723.3	2850.1
132.8	72.5°	241.5	465.0	760.8	1147.3	1485.5	1805.5	2053.1	2258.4	2264.4
78.5	75°	120.8	314.0	579.7	887.7	1159.4	1473.4	1696.8	1817.6	1672.6
48.3	77.5°	72.5	229.5	471.0	712.5	942.0	1189.6	1316.4	1382.8	1147.3
36.2	80°	42.3	163.0	368.3	567.6	652.2	875.6	996.3	1014.5	766.9
24.2	82.5°	30.2	120.8	289.8	416.7	398.5	615.9	748.8	724.6	489.1
18.1	85°	18.1	84.5	181.2	259.7	241.5	404.6	434.8	446.8	283.8
12.1	87.5°	12.1	48.3	96.6	138.9	114.7	175.1	175.1	211.3	138.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
32631.7  
31822.6  
31955.4  
31568.9  
31037.6  
30385.4  
29618.5  
28700.7  
27474.9  
26285.3  
24793.8  
23465.4  
21895.4  
20385.8  
18719.2  
17414.9  
15790.5  
14359.4  
12940.4  
11569.6  
10265.3  
9021.4  
7771.5  
6678.5  
5694.2  
4758.3  
3997.4  
3381.5  
2801.8  
2210.1  
1564.0  
1105.0  
718.6  
452.9  
259.7  
120.8  
0.0

(END OF REPORT)