

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: P638794

Luminaire Tested: **EPH-VN-06-E-740-U-77-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638794  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-06-E-740-U-77-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 7 distribution lens and Visor  
Light Source: (96) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40699.8 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

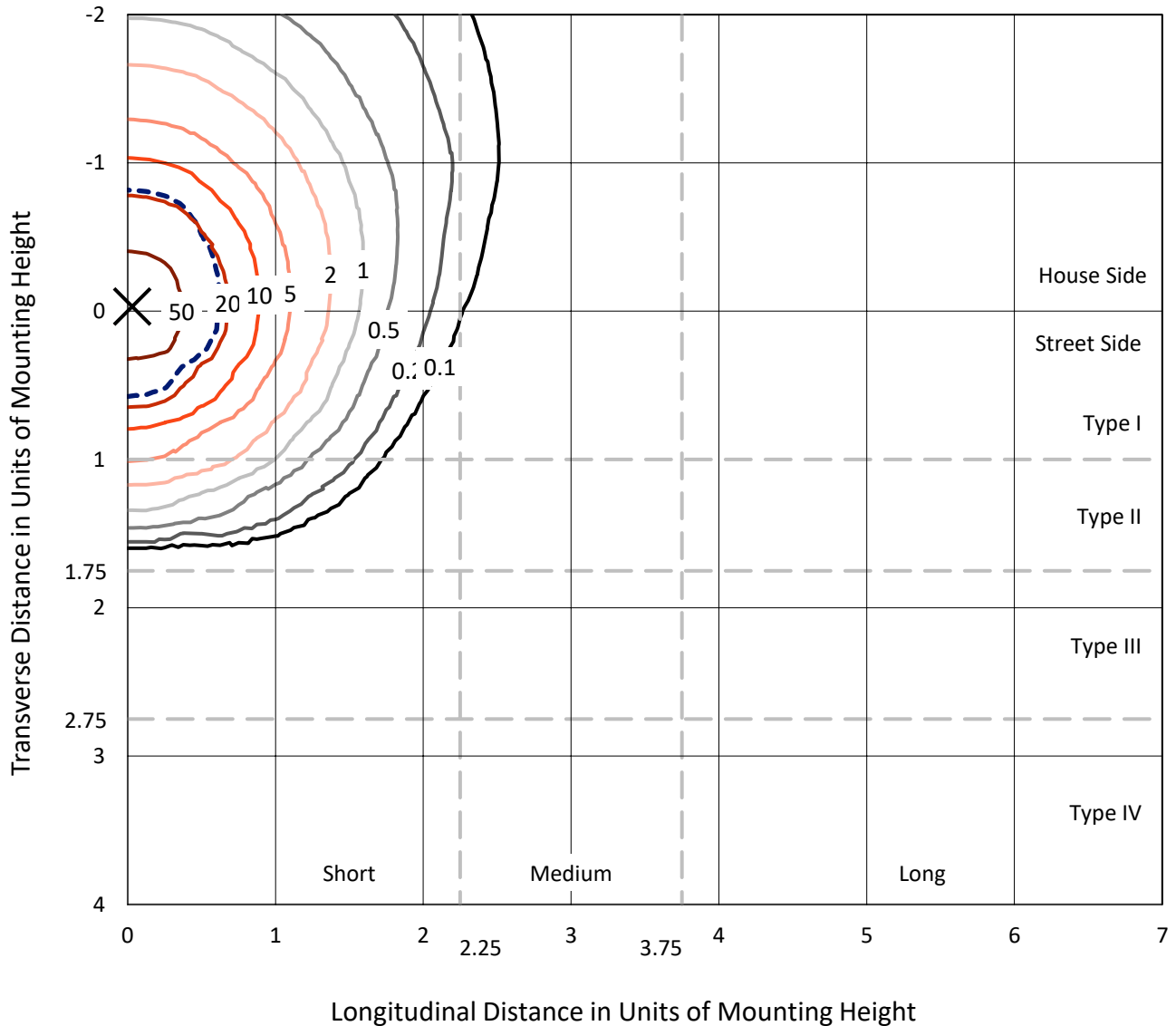
Input Watts (W): 464.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

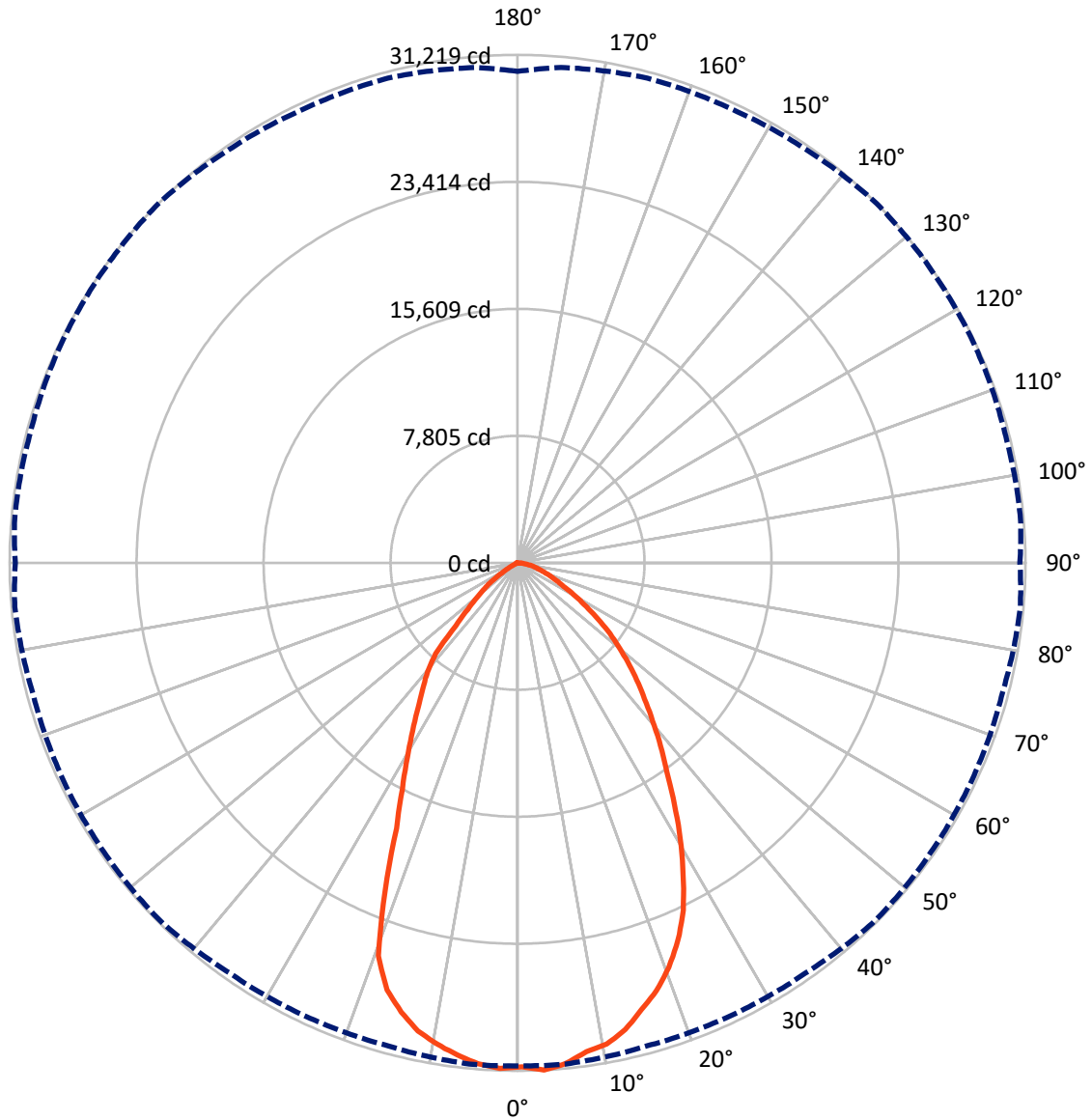
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 77.4 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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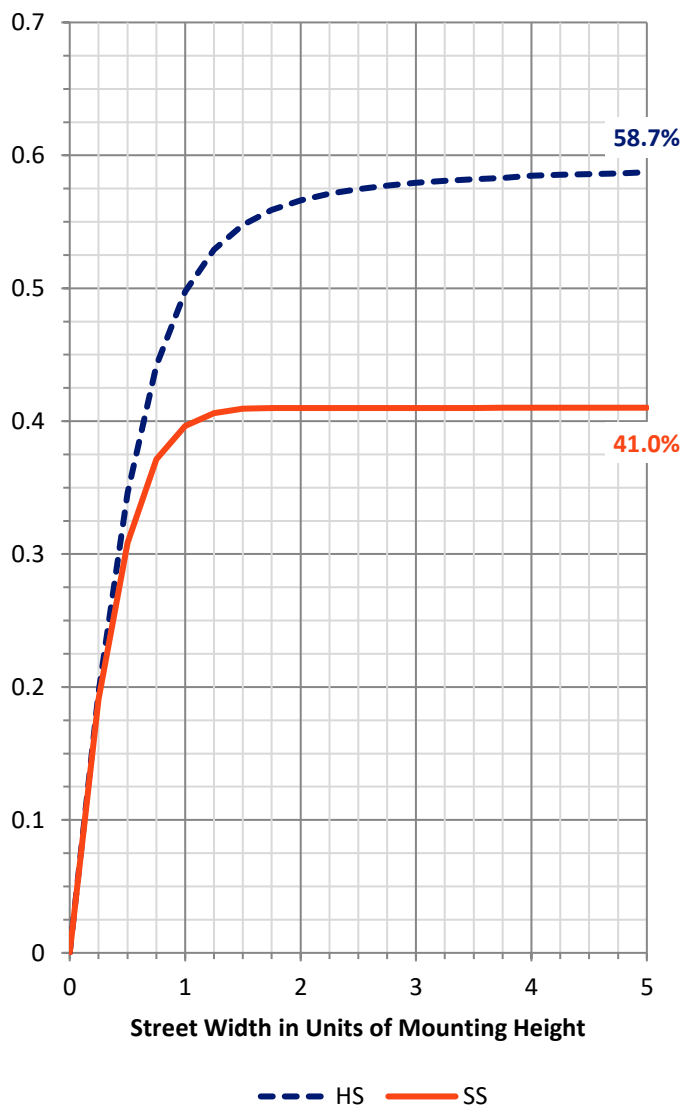
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24104.5	0.0	24104.5
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	16595.3	0.0	16595.3
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	40699.8	0.0	40699.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2904.7	7.1
10°-20°	7789.2	19.1
20°-30°	9499.4	23.3
30°-40°	8672.8	21.3
40°-50°	6267.6	15.4
50°-60°	3422.2	8.4
60°-70°	1415.0	3.5
70°-80°	573.1	1.4
80°-90°	155.9	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°	40699.8	100.0
0°-180°	40699.8	100.0



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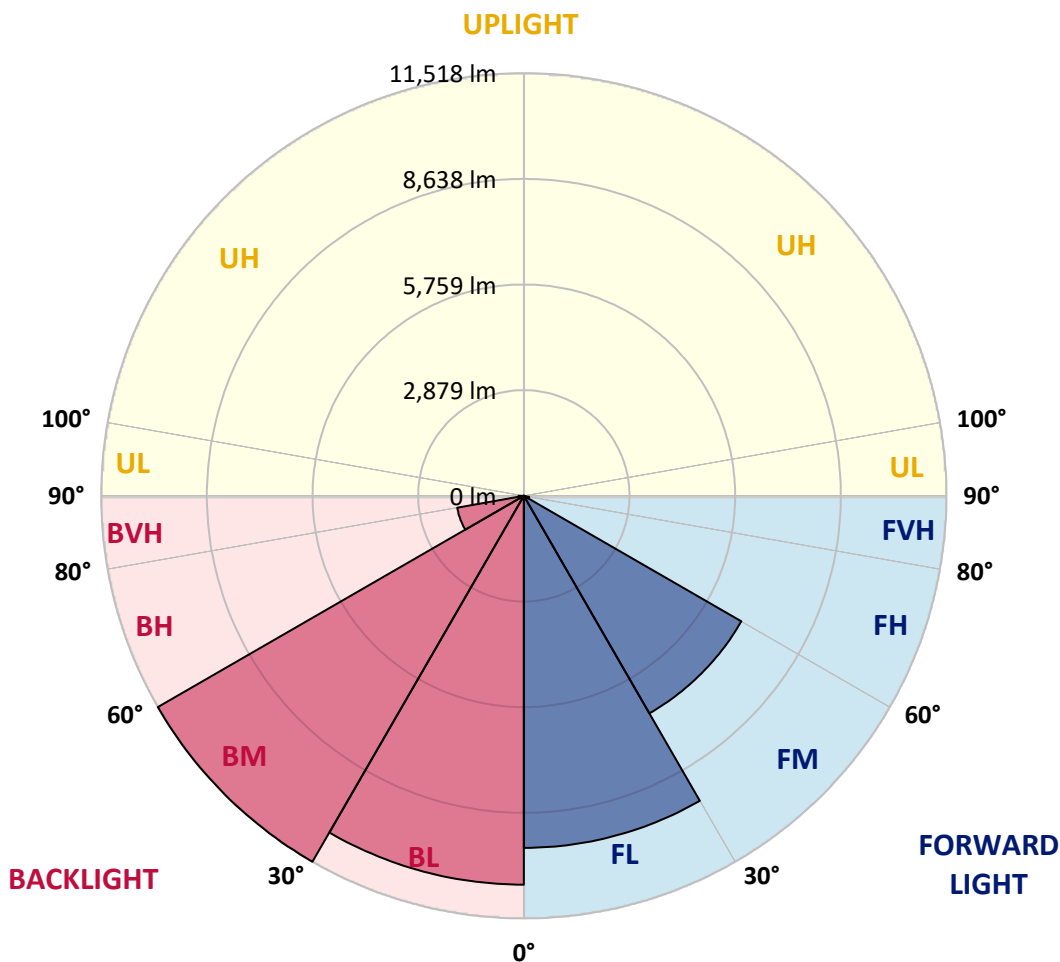
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9594.5	23.6			
FM (30°-60°)	6845.0	16.8			
FH (60°-80°)	143.4	0.4			G0/660
FVH (80°-90°)	12.5	0.0			G1/100
BL (0°-30°)	10598.8	26.0	B5		
BM (30°-60°)	11517.7	28.3	B5		
BH (60°-80°)	1844.6	4.5	B3/2500		G3/2500
BVH (80°-90°)	143.4	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°	30972.4	30972.4	30972.4	30972.4	30972.4	30972.4	30972.4	30972.4	30972.4	30972.4
2.5°	30915.1	30955.2	30737.5	30760.4	30800.5	31092.8	31018.3	30949.5	30852.1	31018.3
5°	30875.0	30897.9	30668.7	30588.4	30622.8	30886.5	30645.8	30645.8	30622.8	30594.2
7.5°	30565.5	30577.0	30399.3	30256.0	30347.7	30468.1	30290.4	30376.4	30250.3	30347.7
10°	30101.3	30026.8	29814.7	29774.6	29877.7	29992.4	29872.0	29952.3	29837.6	29912.1
12.5°	29419.2	29304.6	29132.7	29081.1	29258.8	29413.5	29316.1	29270.2	29121.2	29304.6
15°	26788.5	26702.6	27092.3	27774.3	28387.6	28519.4	28416.2	28462.1	28152.6	28204.2
17.5°	22048.7	21888.2	22306.6	23922.8	26226.9	27441.9	27350.2	27052.2	26593.7	26696.8
20°	20036.9	19991.1	19945.2	20329.2	21939.8	25625.1	25751.1	24994.6	24341.2	24197.9
22.5°	18902.1	18884.9	18839.1	18925.1	19349.2	21716.2	23160.6	22461.3	22025.7	21985.6
25°	17864.7	17836.1	17698.5	17807.4	17807.4	17945.0	19796.2	20220.4	19836.3	19790.5
27.5°	16810.2	16758.6	16735.7	16787.2	16523.6	15595.1	16065.1	18134.1	17933.5	17945.0
30°	15669.6	15652.4	15589.4	15698.3	14884.4	13732.4	13434.4	16242.8	16282.9	16271.4
32.5°	13973.1	14047.6	14334.2	14454.6	13113.4	12162.0	11663.4	14053.4	14873.0	14855.8
35°	10150.3	10150.3	11084.5	12821.1	11491.4	10775.0	10505.6	11915.6	13480.2	13537.5
37.5°	8344.9	8373.6	8557.0	9347.9	9915.3	9663.1	9582.9	10029.9	11692.0	11783.7
40°	7508.1	7508.1	7508.1	7181.4	7164.2	8706.0	8660.1	8516.8	10098.7	10299.3
42.5°	6745.8	6763.0	6774.5	5949.2	5490.7	7525.3	7422.2	7204.4	8671.6	8906.6
45°	5960.6	5989.3	6023.7	4974.8	4774.2	5416.2	6281.6	6040.9	7261.7	7565.4
47.5°	3639.4	3685.3	4464.8	4218.3	4241.2	4178.2	5123.9	5083.7	5954.9	6384.8
50°	2458.8	2476.0	2550.5	2676.6	3639.4	3284.1	3628.0	4206.8	4522.1	5175.4
52.5°	2063.3	2092.0	1908.6	1736.6	2390.0	2567.7	2533.3	3123.6	3249.7	4057.8
55°	1450.0	1541.7	1455.8	1438.6	1358.3	1994.5	1920.0	2401.5	2481.7	3083.5
57.5°	149.0	171.9	298.0	1071.8	888.4	1129.1	1369.8	1759.5	1839.8	2275.4
60°	11.5	11.5	28.7	149.0	647.6	676.3	945.7	1083.2	1238.0	1587.6
62.5°	0.0	5.7	11.5	22.9	103.2	361.1	475.7	567.4	745.1	1025.9
65°	0.0	0.0	5.7	17.2	22.9	137.6	183.4	298.0	406.9	636.2
67.5°	0.0	0.0	5.7	11.5	17.2	34.4	63.0	108.9	217.8	361.1
70°	0.0	0.0	5.7	11.5	17.2	28.7	45.9	68.8	97.4	194.9
72.5°	0.0	0.0	5.7	5.7	11.5	28.7	34.4	45.9	68.8	97.4
75°	0.0	0.0	5.7	5.7	17.2	34.4	28.7	34.4	45.9	63.0
77.5°	0.0	0.0	5.7	11.5	17.2	34.4	28.7	34.4	34.4	40.1
80°	0.0	0.0	5.7	11.5	22.9	40.1	34.4	34.4	28.7	28.7
82.5°	0.0	0.0	5.7	17.2	22.9	51.6	51.6	45.9	22.9	17.2
85°	0.0	0.0	11.5	22.9	34.4	57.3	57.3	45.9	17.2	11.5
87.5°	0.0	0.0	11.5	17.2	28.7	40.1	57.3	45.9	17.2	5.7
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°
30972.4	0°	30972.4	30972.4	30972.4	30972.4	30972.4	30972.4	30972.4	30972.4	30972.4
30875.0	2.5°	31029.8	30995.4	31110.0	31155.8	31218.9	30978.2	30829.2	30834.9	30559.8
30525.4	5°	30708.8	30714.5	30863.5	30852.1	30915.1	30783.3	30726.0	30628.6	30387.8
30084.1	7.5°	30301.9	30250.3	30393.6	30502.5	30342.0	30433.7	30301.9	30347.7	30204.4
29694.3	10°	29986.6	29866.3	29998.1	30072.6	30078.3	29986.6	29860.6	29740.2	29688.6
29086.8	12.5°	29287.4	29132.7	29356.2	29459.4	29442.2	29264.5	29121.2	29149.9	28983.7
28020.8	15°	28324.5	28330.3	28490.8	28588.2	28496.5	28456.4	28467.8	28399.0	28255.8
26547.8	17.5°	26851.6	26937.5	27361.7	27596.7	27648.2	27568.0	27527.9	27447.6	27304.4
24197.9	20°	24398.5	24914.4	25670.9	26398.8	26542.1	26519.2	26375.9	26341.5	26261.2
21871.0	22.5°	22243.5	22627.5	23504.4	24639.3	25223.9	25281.2	25109.2	25057.6	24971.7
19790.5	25°	20014.0	20426.7	21217.6	22449.9	23659.2	23905.6	23877.0	23722.2	23630.5
17945.0	27.5°	18134.1	18546.8	19263.2	20375.1	21670.4	22461.3	22535.8	22289.4	22283.7
16300.1	30°	16437.6	17005.0	17549.5	18455.1	19710.3	20896.7	21022.7	20850.8	20868.0
14792.7	32.5°	15107.9	15577.9	16042.2	16649.7	17692.8	19074.1	19567.0	19406.5	19343.4
13537.5	35°	13749.6	14070.6	14546.3	15102.2	15812.9	17182.7	18036.7	17916.3	17853.3
11841.1	37.5°	12202.1	12752.3	13096.2	13721.0	14276.9	15365.9	16569.5	16552.3	16420.4
10396.7	40°	10614.5	11193.4	11715.0	12345.4	12775.3	13640.7	14976.1	14970.4	14987.6
8900.9	42.5°	9176.0	9709.0	10339.4	11027.2	11439.9	12070.3	13503.2	13583.4	13680.8
7668.6	45°	7874.9	8356.4	8941.0	9777.8	10276.4	10637.5	11909.8	12276.6	12270.9
6568.2	47.5°	6705.7	7158.5	7651.4	8465.3	9101.5	9428.1	10482.7	11004.3	10969.9
5387.5	50°	5628.2	6029.4	6545.2	7135.6	7989.6	8276.1	9061.3	9749.1	9697.5
4292.8	52.5°	4527.8	5083.7	5519.3	6058.1	6957.9	7238.7	7846.3	8516.8	8476.7
3221.0	55°	3530.5	4069.3	4596.6	5060.8	5817.4	6235.8	6671.3	7359.1	7347.6
2521.8	57.5°	2670.8	3261.2	3759.8	4201.1	4802.9	5318.7	5668.3	6293.1	6373.3
1725.1	60°	1977.3	2430.1	2968.9	3461.8	3937.5	4470.5	4705.5	5318.7	5353.1
1180.7	62.5°	1346.9	1845.5	2372.8	2819.8	3175.2	3725.4	3937.5	4441.8	4504.9
756.5	65°	934.2	1255.2	1857.0	2177.9	2613.5	3083.5	3295.6	3696.7	3822.8
435.6	67.5°	619.0	894.1	1450.0	1742.3	2172.2	2493.2	2762.5	3089.2	3226.8
275.1	70°	338.2	659.1	1037.4	1375.5	1748.1	2057.6	2321.2	2584.9	2705.2
126.1	72.5°	229.3	441.3	722.2	1089.0	1409.9	1713.7	1948.7	2143.5	2149.3
74.5	75°	114.6	298.0	550.2	842.5	1100.4	1398.5	1610.5	1725.1	1587.6
45.9	77.5°	68.8	217.8	447.0	676.3	894.1	1129.1	1249.4	1312.5	1089.0
34.4	80°	40.1	154.7	349.6	538.8	619.0	831.1	945.7	962.9	727.9
22.9	82.5°	28.7	114.6	275.1	395.5	378.3	584.6	710.7	687.8	464.2
17.2	85°	17.2	80.2	171.9	246.4	229.3	384.0	412.7	424.1	269.4
11.5	87.5°	11.5	45.9	91.7	131.8	108.9	166.2	166.2	200.6	131.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
30972.4  
30204.4  
30330.5  
29963.7  
29459.4  
28840.4  
28112.5  
27241.3  
26077.8  
24948.7  
23533.1  
22272.2  
20782.0  
19349.2  
17767.3  
16529.3  
14987.6  
13629.3  
12282.4  
10981.3  
9743.4  
8562.7  
7376.3  
6338.9  
5404.7  
4516.3  
3794.2  
3209.6  
2659.4  
2097.7  
1484.4  
1048.8  
682.0  
429.9  
246.4  
114.6  
0.0

(END OF REPORT)