

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: P638677

Luminaire Tested: **EPH-VN-08-E-730-U-55-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638677  
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-730-U-55-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 5 distribution lens and Visor  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 58563.1 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

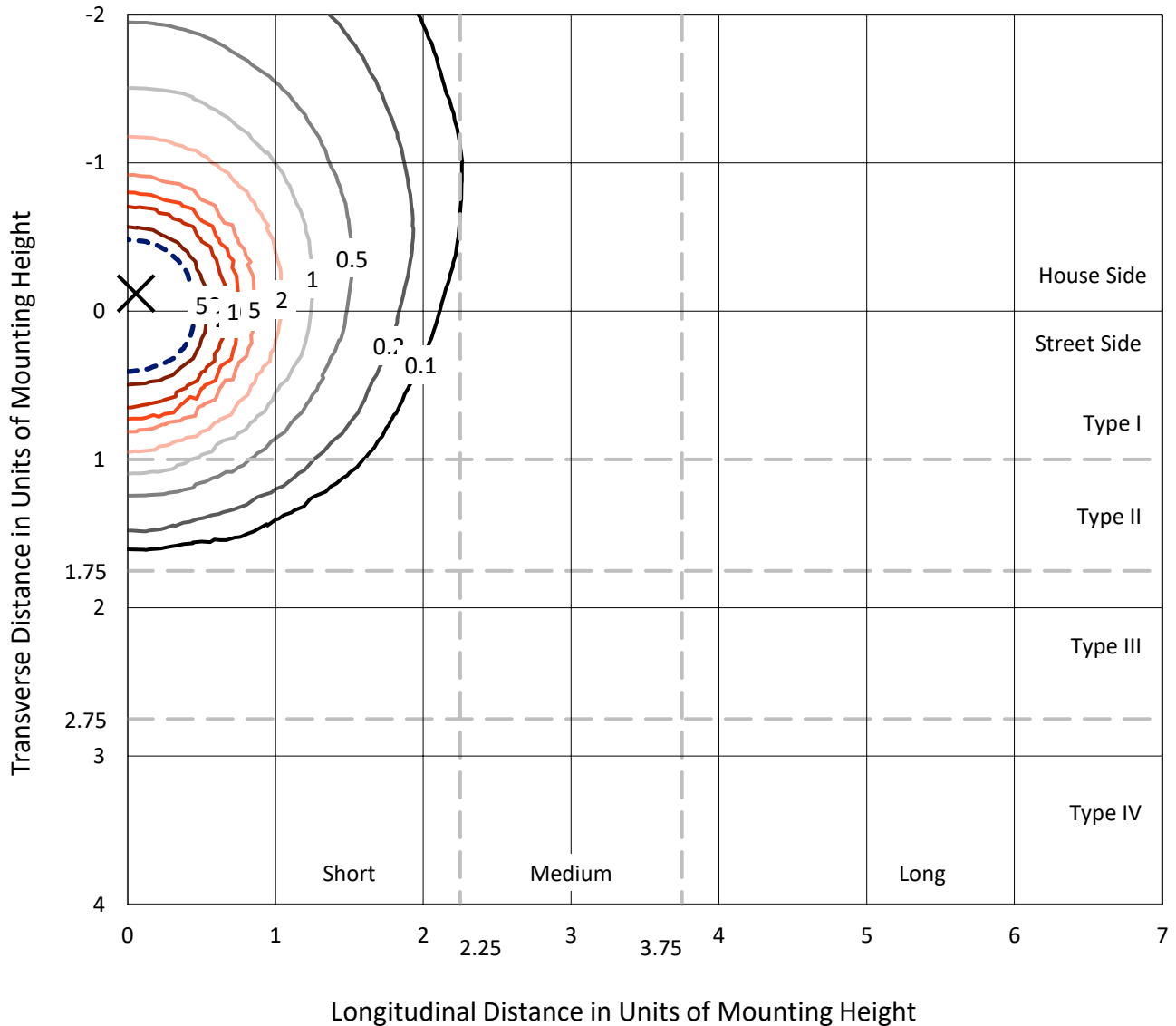
Input Watts (W): 626.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

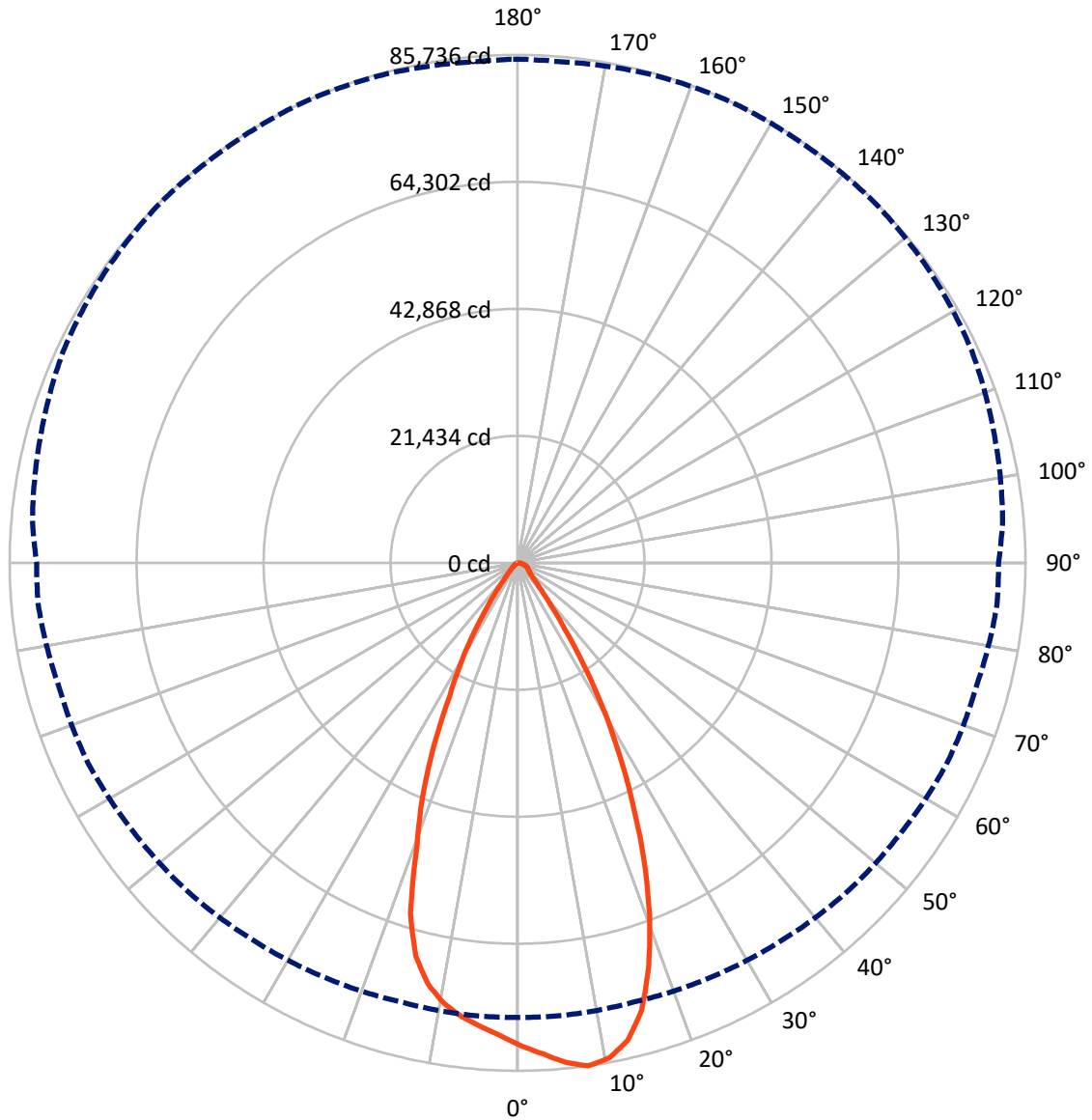
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 207.3 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral    - - - Horizontal Cone Through 7.5-Deg Vertical

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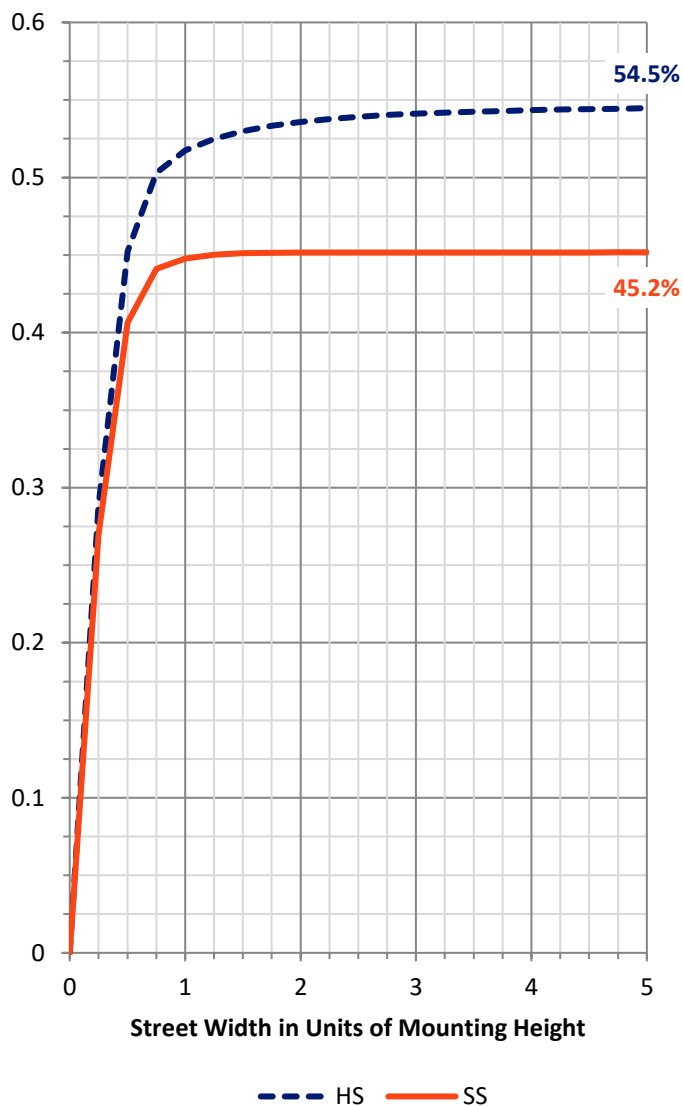
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	32329.0	0.0	32329.0
	% Fixture	55.2	0.0	55.2
<b>Street Side</b>	Lumens	26234.1	0.0	26234.1
	% Fixture	44.8	0.0	44.8
<b>Total</b>	Lumens	58563.1	0.0	58563.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7779.5	13.3
10°-20°	20172.2	34.4
20°-30°	18483.3	31.6
30°-40°	7467.3	12.8
40°-50°	2190.6	3.7
50°-60°	1224.8	2.1
60°-70°	743.9	1.3
70°-80°	378.0	0.6
80°-90°	123.6	0.2
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°	58563.1	100.0
0°-180°	58563.1	100.0

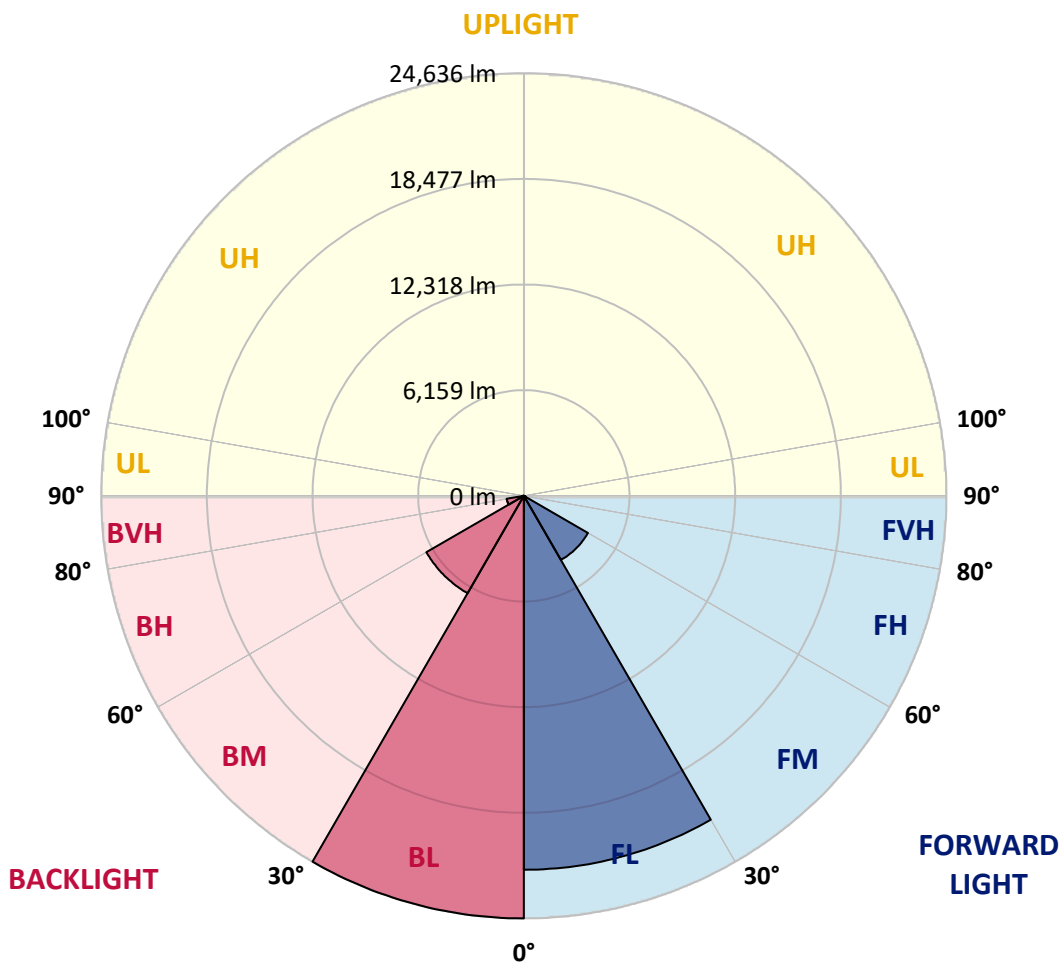


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	21798.7	37.2			
FM (30°-60°)	4320.1	7.4			
FH (60°-80°)	104.6	0.2			G0/660
FVH (80°-90°)	10.7	0.0			G1/100
BL (0°-30°)	24636.3	42.1	B5		
BM (30°-60°)	6562.5	11.2	B4/8500		
BH (60°-80°)	1017.2	1.7	B3/2500		G3/2500
BVH (80°-90°)	112.9	0.2			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°	81582.9	81582.9	81582.9	81582.9	81582.9	81582.9	81582.9	81582.9	81582.9	81582.9
2.5°	79813.6	80083.7	79543.5	79901.4	80178.3	80840.0	80894.1	81123.7	81204.7	81805.7
5°	78300.9	78510.3	78071.3	78550.8	78942.5	79530.0	79982.4	80617.2	80968.4	81677.4
7.5°	76727.5	76774.7	76687.0	77193.4	77780.9	78591.3	79151.8	79982.4	80198.5	81211.5
10°	74823.1	74478.7	74647.6	75390.4	76268.3	77510.8	77895.7	78726.4	79111.3	80144.5
12.5°	71784.3	71959.9	71750.5	72695.9	73425.3	74836.6	75241.8	76079.2	76815.3	77726.9
15°	67502.9	67401.6	67827.0	68563.1	69353.2	70474.2	71129.2	72040.9	72601.4	73546.8
17.5°	57879.9	58224.3	59980.1	61823.6	63444.3	64754.4	65537.8	66294.1	66699.3	67725.7
20°	49985.6	49553.4	49789.8	50829.8	55442.0	57447.7	58271.6	58453.9	58622.7	59433.1
22.5°	41159.5	41017.7	41807.8	42976.0	44070.0	48695.8	49816.8	49391.4	49742.5	50505.6
25°	30564.0	31279.9	31982.2	34224.2	35642.3	37911.3	40038.5	40227.6	40355.9	40835.3
27.5°	24878.0	24628.2	24614.6	25242.7	27336.1	29226.9	31036.7	31455.4	31381.1	31840.3
30°	19556.7	19475.6	19192.0	19340.6	19131.2	20812.7	21663.6	23385.6	23291.1	23304.6
32.5°	14107.0	13803.1	13688.3	13911.2	13695.1	13539.7	14282.6	16227.4	16193.7	16328.7
35°	8535.8	8495.3	8589.8	8785.6	8353.4	8339.9	8495.3	10325.3	10548.2	10764.3
37.5°	4713.6	4673.1	4747.4	5469.9	5328.1	5199.8	5240.3	6206.0	6847.5	7009.6
40°	3106.4	3099.6	3153.6	3282.0	3525.1	3477.8	3498.0	3930.2	4538.0	4679.8
42.5°	2079.9	2086.7	2120.4	2269.0	2302.8	2545.9	2505.4	2606.7	3173.9	3295.5
45°	1661.2	1654.5	1674.7	1607.2	1647.7	1897.6	1924.6	1931.4	2417.6	2491.9
47.5°	1310.1	1310.1	1330.3	1242.6	1222.3	1377.6	1519.4	1539.7	1931.4	2032.7
50°	918.4	918.4	1019.7	979.2	1026.5	1073.7	1229.0	1249.3	1580.2	1688.2
52.5°	675.3	688.8	702.3	709.1	864.4	857.6	992.7	1087.2	1195.3	1384.4
55°	513.2	526.7	493.0	526.7	641.5	715.8	742.8	877.9	952.2	1161.5
57.5°	337.6	371.4	344.4	405.2	432.2	553.7	594.3	722.6	769.8	952.2
60°	47.3	54.0	87.8	283.6	303.9	364.7	459.2	574.0	621.3	776.6
62.5°	6.8	6.8	20.3	47.3	202.6	243.1	344.4	398.4	459.2	580.8
65°	0.0	0.0	6.8	13.5	40.5	141.8	175.6	216.1	317.4	418.7
67.5°	0.0	0.0	6.8	13.5	20.3	47.3	74.3	141.8	182.3	290.4
70°	0.0	0.0	6.8	13.5	20.3	27.0	40.5	54.0	108.0	168.8
72.5°	0.0	0.0	6.8	13.5	20.3	27.0	33.8	40.5	47.3	108.0
75°	0.0	0.0	6.8	13.5	20.3	33.8	40.5	40.5	40.5	47.3
77.5°	0.0	0.0	6.8	13.5	27.0	40.5	47.3	40.5	33.8	33.8
80°	0.0	0.0	6.8	20.3	33.8	47.3	54.0	40.5	27.0	20.3
82.5°	0.0	0.0	6.8	20.3	33.8	47.3	54.0	47.3	27.0	20.3
85°	0.0	0.0	6.8	20.3	27.0	33.8	54.0	47.3	27.0	13.5
87.5°	0.0	0.0	0.0	6.8	6.8	13.5	27.0	20.3	13.5	6.8
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°
81582.9	0°	81582.9	81582.9	81582.9	81582.9	81582.9	81582.9	81582.9	81582.9	81582.9
81792.2	2.5°	82400.0	82703.9	83237.4	83385.9	83845.1	83318.4	83028.0	83055.0	82427.0
81589.6	5°	82400.0	83095.5	84027.5	84473.2	84810.8	84783.8	84709.5	84520.4	84061.2
81184.4	7.5°	82183.9	83318.4	84601.5	85195.7	85600.9	85567.1	85736.0	85432.1	84871.6
80461.9	10°	81488.3	82474.3	84054.5	84540.7	85195.7	85209.2	84999.9	85060.7	84061.2
77821.5	12.5°	79300.4	80070.2	81454.6	82008.3	82805.2	82933.5	82703.9	82616.1	81670.7
73492.8	15°	75066.2	75511.9	76903.1	77456.8	78246.9	78138.8	78368.4	78273.9	77443.3
67644.7	17.5°	68873.7	69015.6	70474.2	70940.2	71683.0	71973.4	71629.0	72067.9	71352.1
59574.9	20°	59993.6	60756.7	62397.6	63113.4	63545.6	64065.6	63613.2	64106.1	63268.8
49783.0	22.5°	50985.1	51437.5	52923.2	53956.4	54760.0	54861.3	54692.5	55036.9	53909.1
41152.7	25°	41146.0	41895.6	43070.6	44421.2	45211.3	45697.5	45258.5	45481.4	45299.1
31914.6	27.5°	32454.9	33123.4	34008.1	35014.3	36202.8	36837.6	36486.4	36864.6	35973.2
23797.5	30°	23817.8	24155.4	25154.9	26221.9	27525.2	28295.0	28328.8	28713.7	28187.0
16673.1	32.5°	16794.7	17091.8	17706.3	18415.4	19658.0	20515.6	20380.5	20434.5	20110.4
10865.6	35°	10919.6	11318.0	11757.0	12094.6	12844.2	13789.6	13715.3	13647.8	13424.9
7144.7	37.5°	7300.0	7455.3	7698.4	8002.3	8488.5	9082.8	9278.6	9035.5	8941.0
4821.6	40°	4936.4	5206.6	5368.6	5598.2	5827.8	6327.6	6462.6	6415.3	6320.8
3376.5	42.5°	3504.8	3714.1	3916.7	4139.6	4261.1	4571.8	4835.1	4760.9	4720.3
2566.1	45°	2660.7	2849.8	3086.1	3254.9	3376.5	3558.8	3808.7	3835.7	3774.9
2059.7	47.5°	2133.9	2302.8	2491.9	2701.2	2843.0	2957.8	3173.9	3254.9	3214.4
1735.5	50°	1809.8	1938.1	2120.4	2329.8	2485.1	2586.4	2775.5	2863.3	2836.3
1451.9	52.5°	1539.7	1695.0	1863.8	2039.4	2228.5	2329.8	2505.4	2633.7	2613.4
1202.0	55°	1276.3	1478.9	1654.5	1830.1	2046.2	2147.5	2302.8	2471.6	2437.8
1019.7	57.5°	1114.2	1283.1	1465.4	1634.2	1863.8	1998.9	2140.7	2316.3	2309.5
837.4	60°	931.9	1100.7	1303.3	1445.1	1688.2	1877.3	2005.6	2188.0	2201.5
634.8	62.5°	742.8	952.2	1107.5	1303.3	1526.2	1749.0	1870.6	2052.9	2120.4
486.2	65°	553.7	783.3	958.9	1154.8	1364.1	1614.0	1722.0	1904.3	1971.9
351.2	67.5°	411.9	587.5	810.4	979.2	1215.5	1431.6	1559.9	1728.8	1776.0
209.3	70°	310.6	452.5	675.3	823.9	1067.0	1242.6	1370.9	1499.2	1559.9
141.8	72.5°	182.3	337.6	533.5	709.1	918.4	1067.0	1161.5	1262.8	1303.3
67.5	75°	128.3	256.6	418.7	587.5	742.8	864.4	952.2	1040.0	1080.5
33.8	77.5°	67.5	189.1	330.9	472.7	580.8	682.1	769.8	837.4	864.4
27.0	80°	40.5	135.1	270.1	371.4	445.7	533.5	621.3	668.5	661.8
20.3	82.5°	27.0	108.0	195.8	270.1	324.1	391.7	452.5	486.2	486.2
13.5	85°	20.3	74.3	135.1	209.3	216.1	270.1	283.6	317.4	324.1
13.5	87.5°	13.5	47.3	74.3	121.6	114.8	141.8	148.6	168.8	182.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
81582.9
81920.5
84209.8
84999.9
83770.8
81454.6
77706.7
71176.5
63201.2
53753.8
45184.3
36202.8
28281.5
20292.7
13229.1
8920.7
6334.3
4686.6
3768.2
3194.2
2829.5
2599.9
2437.8
2302.8
2201.5
2113.7
1965.1
1776.0
1546.4
1289.8
1067.0
857.6
655.0
479.5
317.4
175.6
0.0

(END OF REPORT)