

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: P638683

Luminaire Tested: **EPH-VN-08-E-735-U-55-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638683  
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-735-U-55-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 5 distribution lens and Visor  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 63431.5 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

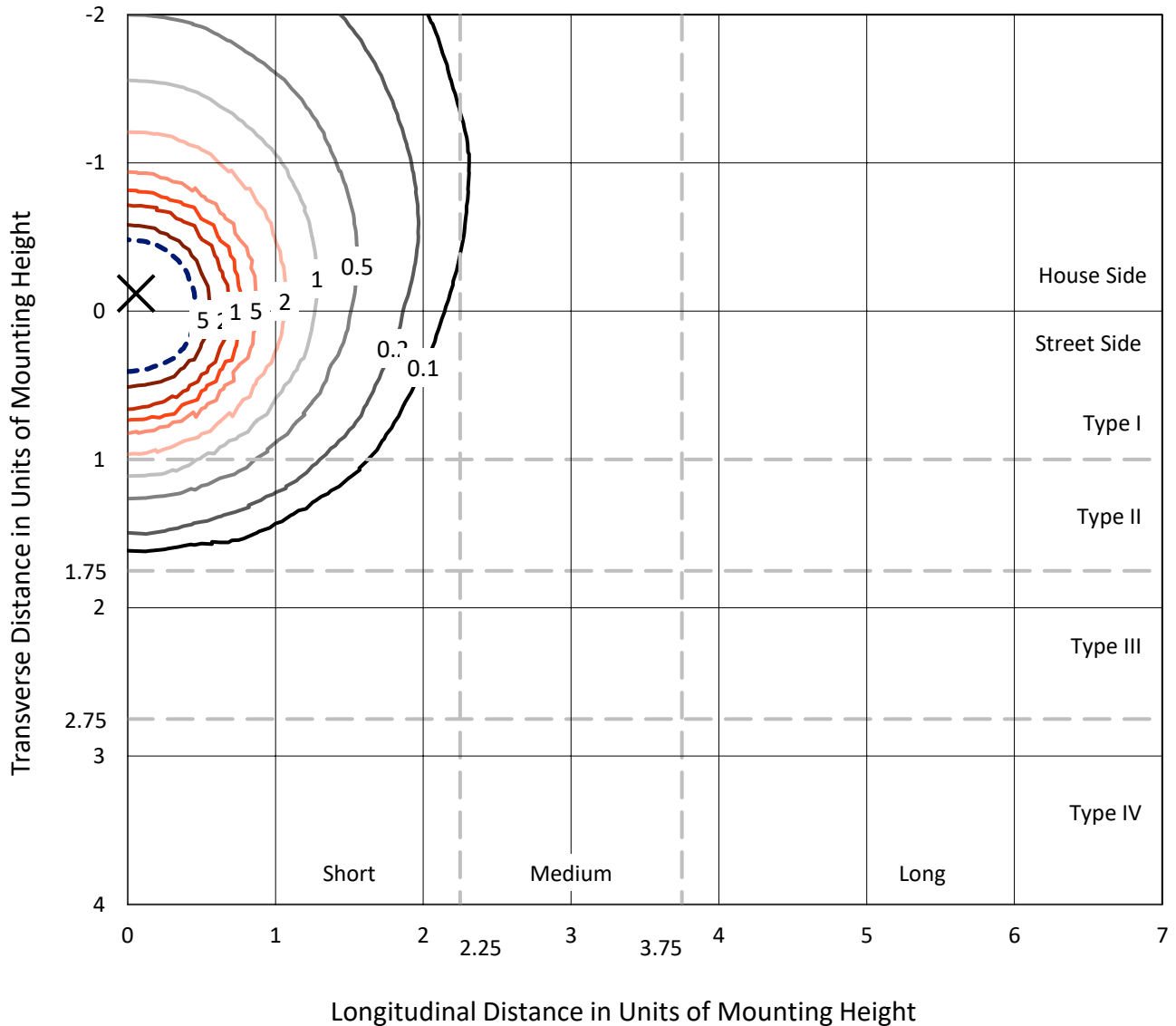
Input Watts (W): 626.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

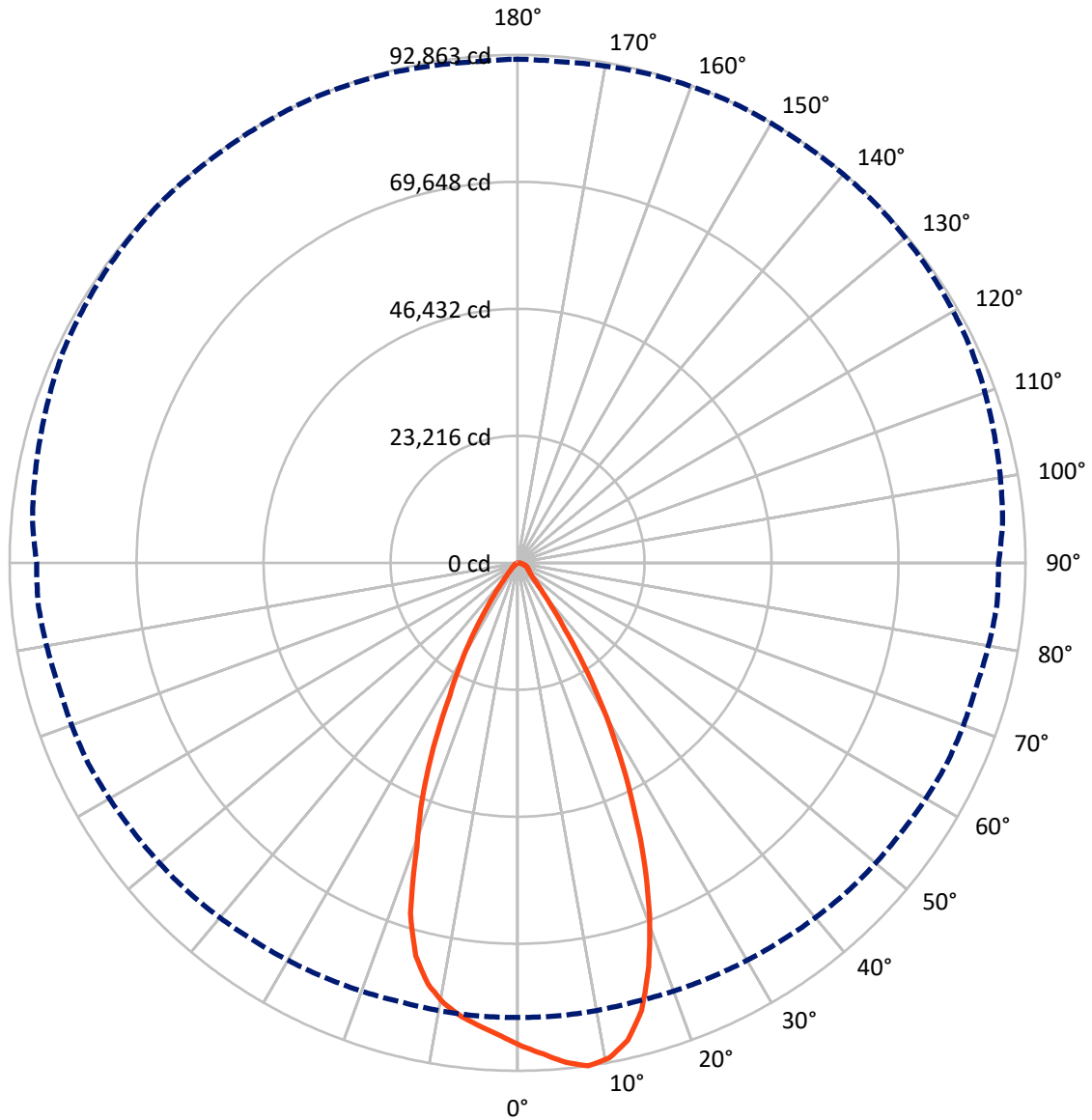
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 224.6 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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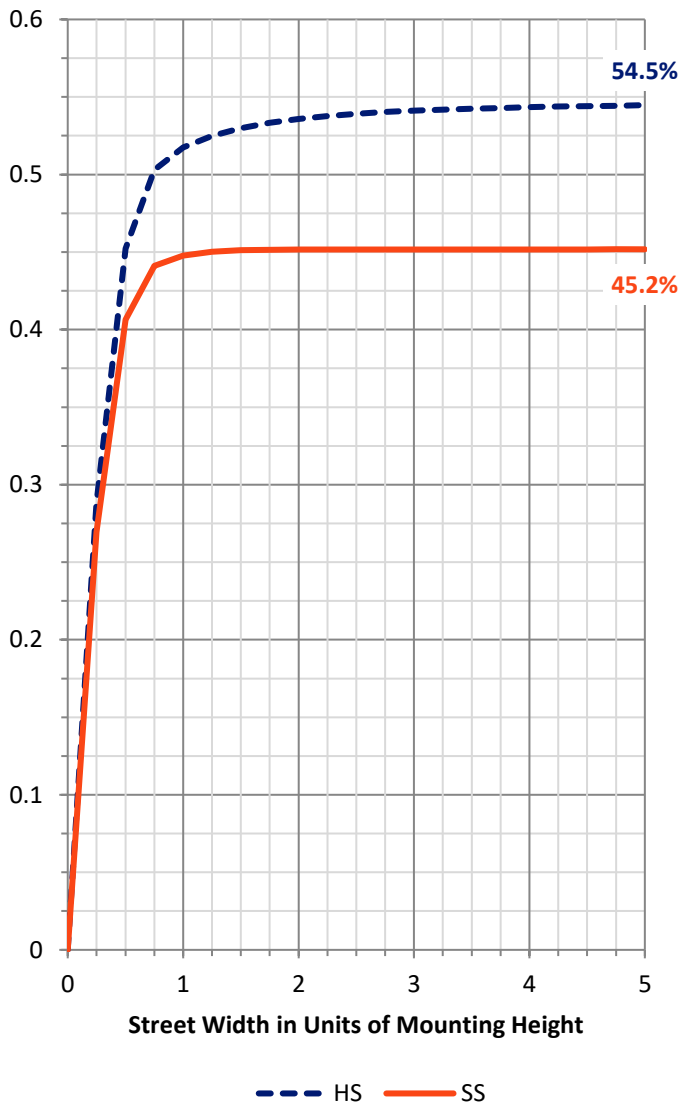
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	35016.5	0.0	35016.5
	% Fixture	55.2	0.0	55.2
<b>Street Side</b>	Lumens	28415.0	0.0	28415.0
	% Fixture	44.8	0.0	44.8
<b>Total</b>	Lumens	63431.5	0.0	63431.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8426.2	13.3
10°-20°	21849.1	34.4
20°-30°	20019.9	31.6
30°-40°	8088.0	12.8
40°-50°	2372.7	3.7
50°-60°	1326.6	2.1
60°-70°	805.7	1.3
70°-80°	409.4	0.6
80°-90°	133.9	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°	63431.5	100.0
0°-180°	63431.5	100.0

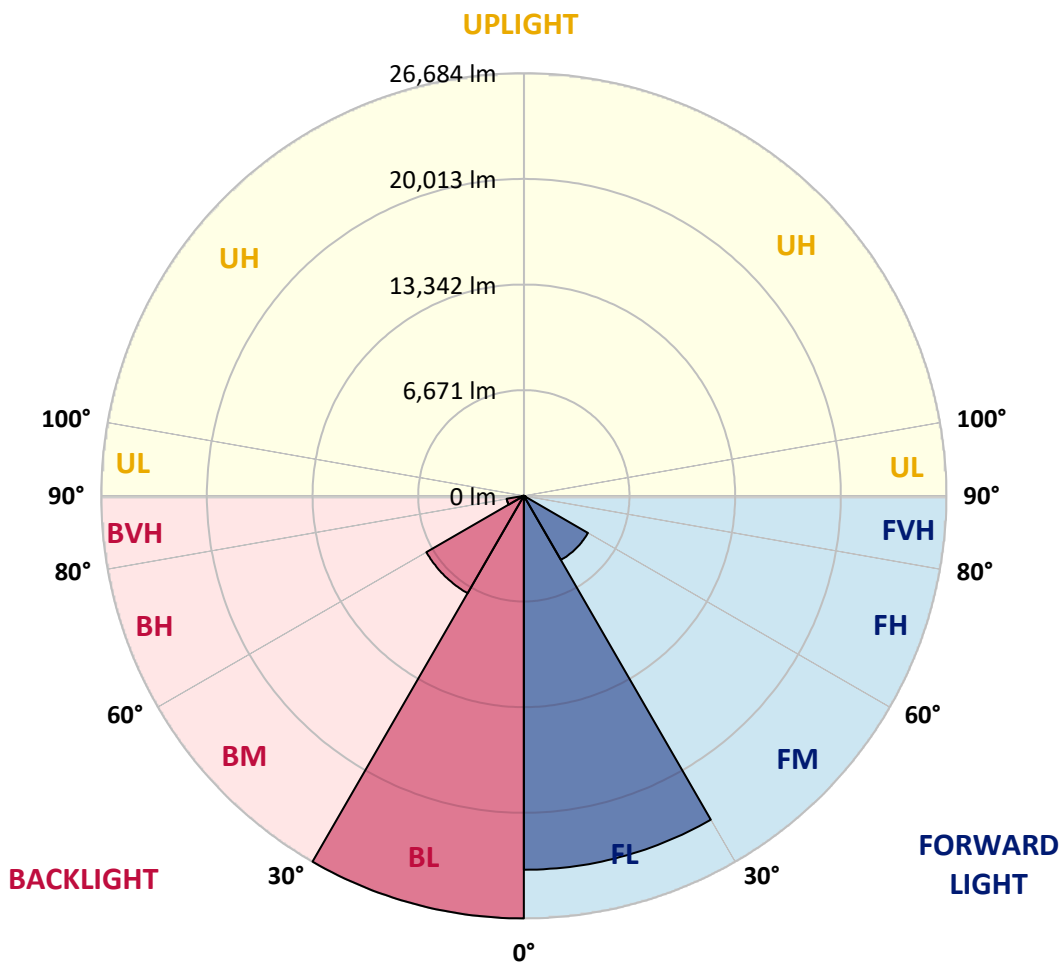


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	23610.8	37.2			
FM (30°-60°)	4679.2	7.4			
FH (60°-80°)	113.3	0.2			G0/660
FVH (80°-90°)	11.6	0.0			G1/100
BL (0°-30°)	26684.4	42.1	B5		
BM (30°-60°)	7108.1	11.2	B4/8500		
BH (60°-80°)	1101.8	1.7	B3/2500		G3/2500
BVH (80°-90°)	122.3	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°	88365.0	88365.0	88365.0	88365.0	88365.0	88365.0	88365.0	88365.0	88365.0	88365.0
2.5°	86448.7	86741.2	86156.1	86543.7	86843.6	87560.4	87619.0	87867.6	87955.4	88606.4
5°	84810.2	85037.0	84561.5	85080.9	85505.1	86141.4	86631.5	87319.1	87699.4	88467.4
7.5°	83106.0	83157.2	83062.1	83610.7	84247.0	85124.8	85731.8	86631.5	86865.6	87962.7
10°	81043.3	80670.3	80853.2	81657.7	82608.6	83954.4	84371.4	85271.0	85688.0	86807.1
12.5°	77751.9	77942.0	77715.3	78739.3	79529.2	81058.0	81496.8	82403.8	83201.1	84188.5
15°	73114.5	73004.8	73465.6	74262.9	75118.7	76332.9	77042.4	78029.8	78636.9	79660.9
17.5°	62691.5	63064.6	64966.3	66963.1	68718.6	70137.6	70986.1	71805.3	72244.1	73355.9
20°	54141.0	53672.9	53928.9	55055.3	60051.1	62223.4	63115.8	63313.3	63496.1	64373.9
22.5°	44581.1	44427.5	45283.3	46548.7	47733.6	52744.0	53958.2	53497.4	53877.7	54704.2
25°	33104.9	33880.2	34640.9	37069.3	38605.3	41062.9	43367.0	43571.8	43710.7	44230.1
27.5°	26946.2	26675.5	26660.9	27341.2	29608.6	31656.6	33616.9	34070.4	33989.9	34487.3
30°	21182.4	21094.7	20787.5	20948.4	20721.6	22542.9	23464.5	25329.7	25227.3	25241.9
32.5°	15279.7	14950.6	14826.2	15067.6	14833.6	14665.3	15469.9	17576.5	17539.9	17686.2
35°	9245.4	9201.5	9303.9	9516.0	9047.9	9033.3	9201.5	11183.7	11425.1	11659.1
37.5°	5105.4	5061.6	5142.0	5924.6	5771.0	5632.1	5676.0	6721.9	7416.8	7592.3
40°	3364.6	3357.3	3415.8	3554.8	3818.1	3766.9	3788.8	4257.0	4915.3	5068.9
42.5°	2252.8	2260.1	2296.7	2457.6	2494.2	2757.5	2713.6	2823.4	3437.8	3569.4
45°	1799.3	1792.0	1814.0	1740.8	1784.7	2055.3	2084.6	2091.9	2618.5	2699.0
47.5°	1419.0	1419.0	1440.9	1345.8	1323.9	1492.1	1645.7	1667.7	2091.9	2201.6
50°	994.8	994.8	1104.5	1060.6	1111.8	1163.0	1331.2	1353.2	1711.6	1828.6
52.5°	731.4	746.1	760.7	768.0	936.2	928.9	1075.2	1177.6	1294.6	1499.4
55°	555.9	570.5	533.9	570.5	694.9	775.3	804.6	950.9	1031.3	1258.1
57.5°	365.7	402.3	373.0	438.9	468.1	599.8	643.7	782.6	833.8	1031.3
60°	51.2	58.5	95.1	307.2	329.1	395.0	497.4	621.7	672.9	841.2
62.5°	7.3	7.3	21.9	51.2	219.4	263.3	373.0	431.5	497.4	629.0
65°	0.0	0.0	7.3	14.6	43.9	153.6	190.2	234.1	343.8	453.5
67.5°	0.0	0.0	7.3	14.6	21.9	51.2	80.5	153.6	197.5	314.5
70°	0.0	0.0	7.3	14.6	21.9	29.3	43.9	58.5	117.0	182.9
72.5°	0.0	0.0	7.3	14.6	21.9	29.3	36.6	43.9	51.2	117.0
75°	0.0	0.0	7.3	14.6	21.9	36.6	43.9	43.9	43.9	51.2
77.5°	0.0	0.0	7.3	14.6	29.3	43.9	51.2	43.9	36.6	36.6
80°	0.0	0.0	7.3	21.9	36.6	51.2	58.5	43.9	29.3	21.9
82.5°	0.0	0.0	7.3	21.9	36.6	51.2	58.5	51.2	29.3	21.9
85°	0.0	0.0	7.3	21.9	29.3	36.6	58.5	51.2	29.3	14.6
87.5°	0.0	0.0	0.0	7.3	7.3	14.6	29.3	21.9	14.6	7.3
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°
88365.0	0°	88365.0	88365.0	88365.0	88365.0	88365.0	88365.0	88365.0	88365.0	88365.0
88591.8	2.5°	89250.1	89579.2	90157.0	90318.0	90815.3	90244.8	89930.3	89959.6	89279.3
88372.3	5°	89250.1	90003.4	91012.8	91495.6	91861.3	91832.0	91751.6	91546.8	91049.4
87933.5	7.5°	89016.0	90244.8	91634.5	92278.2	92717.1	92680.5	92863.4	92534.2	91927.1
87150.8	10°	88262.6	89330.5	91042.1	91568.7	92278.2	92292.8	92066.1	92131.9	91049.4
84290.9	12.5°	85892.8	86726.6	88226.0	88825.8	89688.9	89827.9	89579.2	89484.1	88460.1
79602.4	15°	81306.6	81789.4	83296.2	83895.9	84751.7	84634.7	84883.4	84781.0	83881.3
73268.1	17.5°	74599.4	74753.0	76332.9	76837.6	77642.1	77956.7	77583.6	78059.1	77283.7
64527.5	20°	64980.9	65807.5	67584.9	68360.2	68828.3	69391.5	68901.5	69435.4	68528.4
53921.6	22.5°	55223.6	55713.6	57322.8	58441.9	59312.3	59422.0	59239.2	59612.2	58390.7
44573.8	25°	44566.5	45378.4	46651.1	48114.0	48969.8	49496.4	49021.0	49262.3	49064.9
34567.8	27.5°	35152.9	35877.0	36835.2	37925.1	39212.4	39899.9	39519.6	39929.2	38963.7
25775.9	30°	25797.8	26163.5	27246.1	28401.7	29813.4	30647.3	30683.8	31100.7	30530.2
18059.2	32.5°	18190.9	18512.7	19178.3	19946.3	21292.2	22221.1	22074.8	22133.3	21782.2
11768.8	35°	11827.4	12258.9	12734.3	13100.1	13912.0	14936.0	14855.5	14782.4	14541.0
7738.6	37.5°	7906.8	8075.1	8338.4	8667.5	9194.2	9837.8	10050.0	9786.6	9684.2
5222.5	40°	5346.8	5639.4	5814.9	6063.6	6312.3	6853.6	6999.9	6948.7	6846.3
3657.2	42.5°	3796.2	4022.9	4242.3	4483.7	4615.4	4951.8	5237.1	5156.6	5112.8
2779.5	45°	2881.9	3086.7	3342.7	3525.5	3657.2	3854.7	4125.3	4154.6	4088.7
2230.9	47.5°	2311.3	2494.2	2699.0	2925.8	3079.4	3203.7	3437.8	3525.5	3481.6
1879.8	50°	1960.3	2099.2	2296.7	2523.5	2691.7	2801.4	3006.2	3101.3	3072.0
1572.6	52.5°	1667.7	1835.9	2018.8	2208.9	2413.7	2523.5	2713.6	2852.6	2830.7
1302.0	55°	1382.4	1601.8	1792.0	1982.2	2216.3	2326.0	2494.2	2677.1	2640.5
1104.5	57.5°	1206.9	1389.7	1587.2	1770.1	2018.8	2165.1	2318.7	2508.8	2501.5
907.0	60°	1009.4	1192.2	1411.7	1565.3	1828.6	2033.4	2172.4	2369.9	2384.5
687.6	62.5°	804.6	1031.3	1199.6	1411.7	1653.0	1894.4	2026.1	2223.6	2296.7
526.6	65°	599.8	848.5	1038.6	1250.8	1477.5	1748.1	1865.2	2062.7	2135.8
380.3	67.5°	446.2	636.4	877.7	1060.6	1316.6	1550.6	1689.6	1872.5	1923.7
226.7	70°	336.5	490.1	731.4	892.4	1155.7	1345.8	1484.8	1623.8	1689.6
153.6	72.5°	197.5	365.7	577.8	768.0	994.8	1155.7	1258.1	1367.8	1411.7
73.1	75°	139.0	277.9	453.5	636.4	804.6	936.2	1031.3	1126.4	1170.3
36.6	77.5°	73.1	204.8	358.4	512.0	629.0	738.8	833.8	907.0	936.2
29.3	80°	43.9	146.3	292.6	402.3	482.7	577.8	672.9	724.1	716.8
21.9	82.5°	29.3	117.0	212.1	292.6	351.1	424.2	490.1	526.6	526.6
14.6	85°	21.9	80.5	146.3	226.7	234.1	292.6	307.2	343.8	351.1
14.6	87.5°	14.6	51.2	80.5	131.7	124.3	153.6	160.9	182.9	197.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
88365.0  
88730.7  
91210.3  
92066.1  
90734.9  
88226.0  
84166.6  
77093.6  
68455.3  
58222.5  
48940.5  
39212.4  
30632.6  
21979.7  
14328.9  
9662.3  
6860.9  
5076.2  
4081.4  
3459.7  
3064.7  
2816.0  
2640.5  
2494.2  
2384.5  
2289.4  
2128.5  
1923.7  
1675.0  
1397.0  
1155.7  
928.9  
709.5  
519.3  
343.8  
190.2  
0.0

(END OF REPORT)