

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: P638685

Luminaire Tested: **EPH-VN-04-E-740-U-55-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638685  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-04-E-740-U-55-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 5 distribution lens and Visor  
Light Source: (64) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32853.2 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

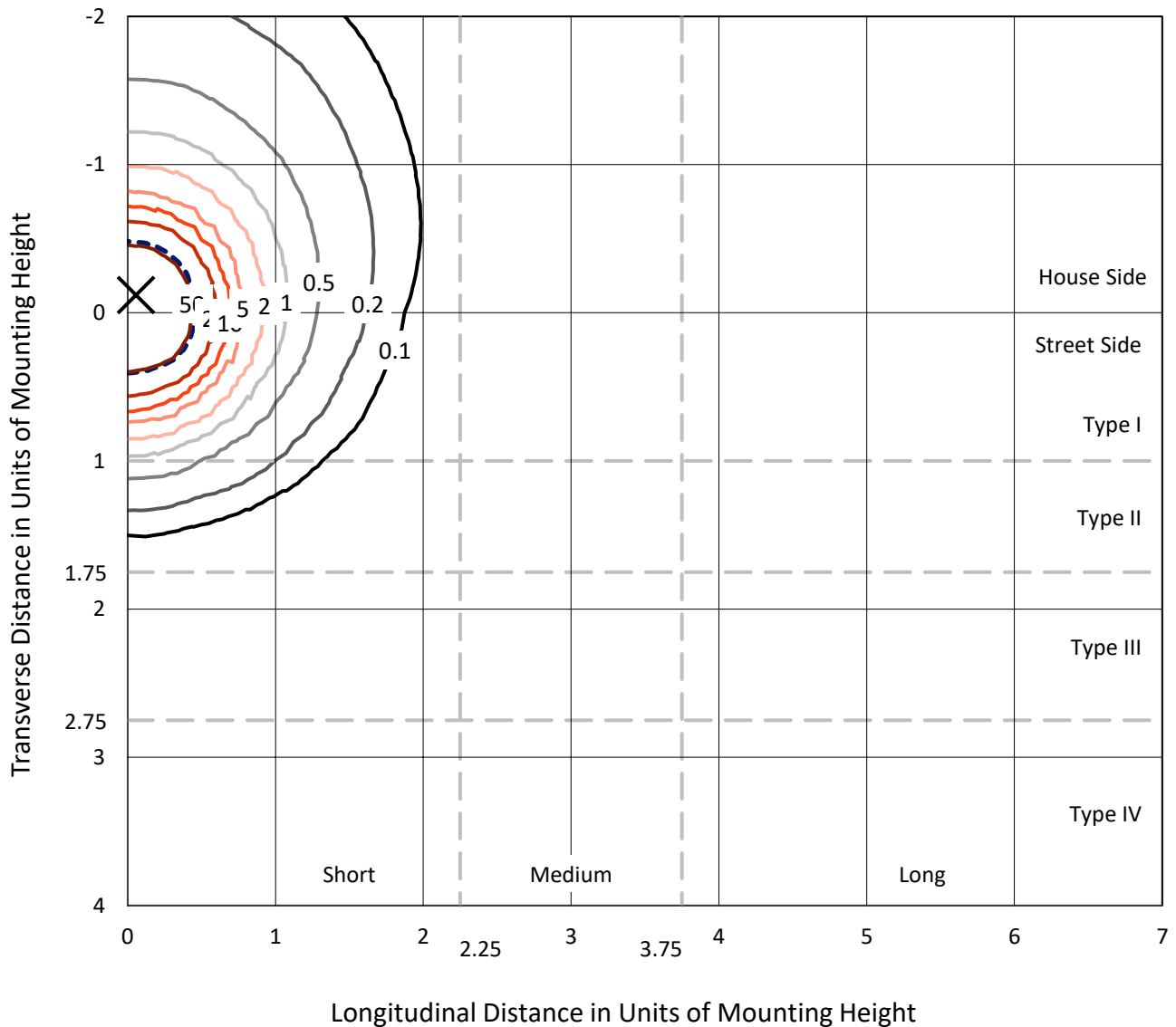
Input Watts (W): 303.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

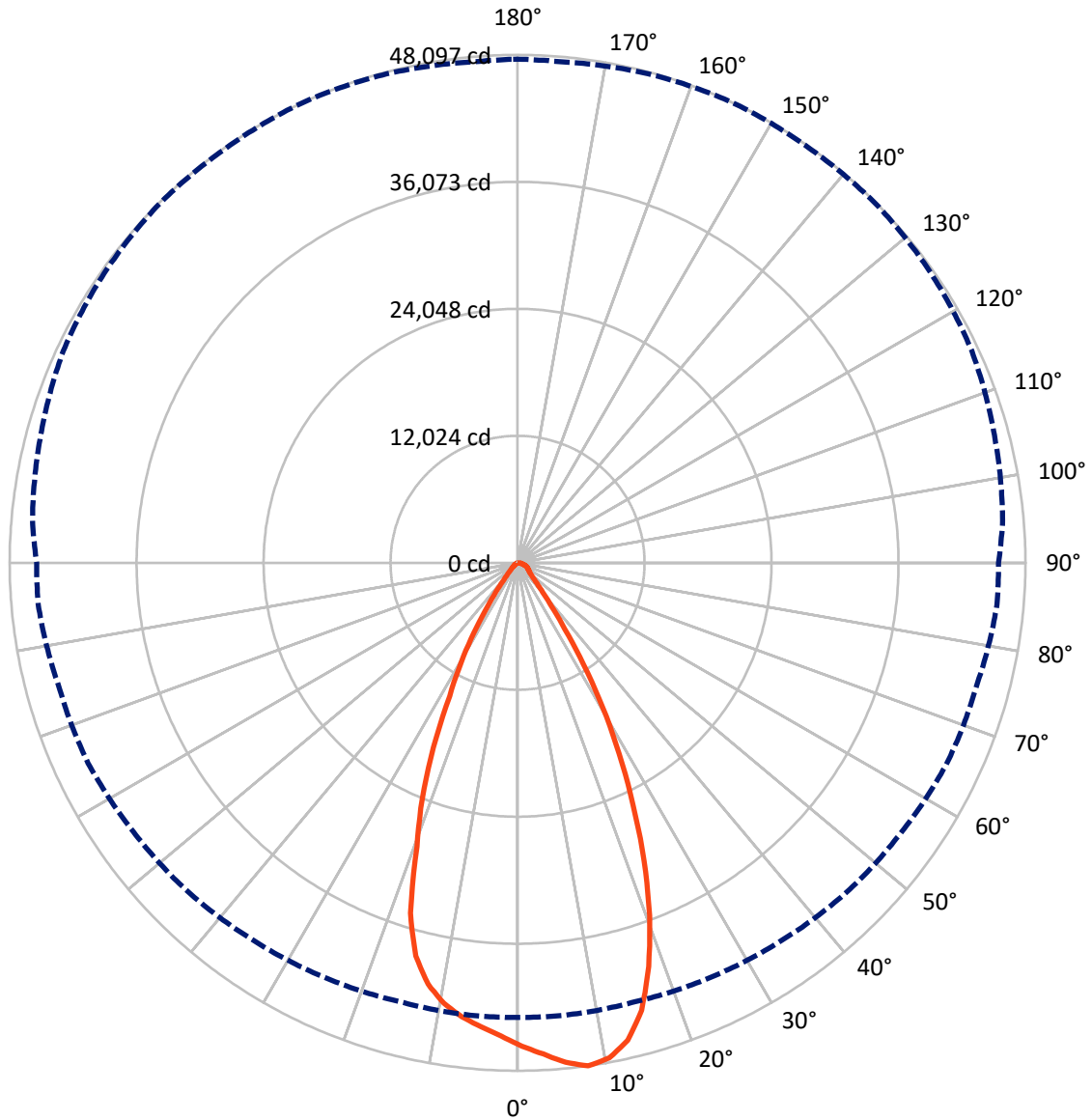
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 116.3 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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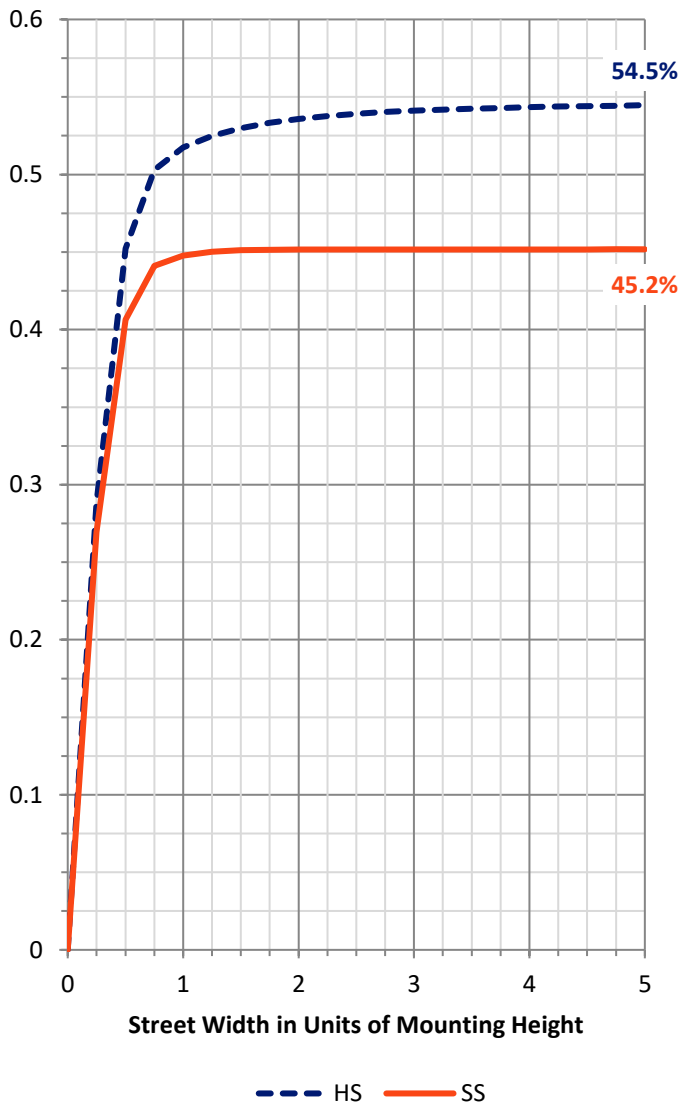
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18136.2	0.0	18136.2
	% Fixture	55.2	0.0	55.2
<b>Street Side</b>	Lumens	14717.0	0.0	14717.0
	% Fixture	44.8	0.0	44.8
<b>Total</b>	Lumens	32853.2	0.0	32853.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4364.2	13.3
10°-20°	11316.3	34.4
20°-30°	10368.9	31.6
30°-40°	4189.0	12.8
40°-50°	1228.9	3.7
50°-60°	687.1	2.1
60°-70°	417.3	1.3
70°-80°	212.0	0.6
80°-90°	69.4	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°	32853.2	100.0
0°-180°	32853.2	100.0

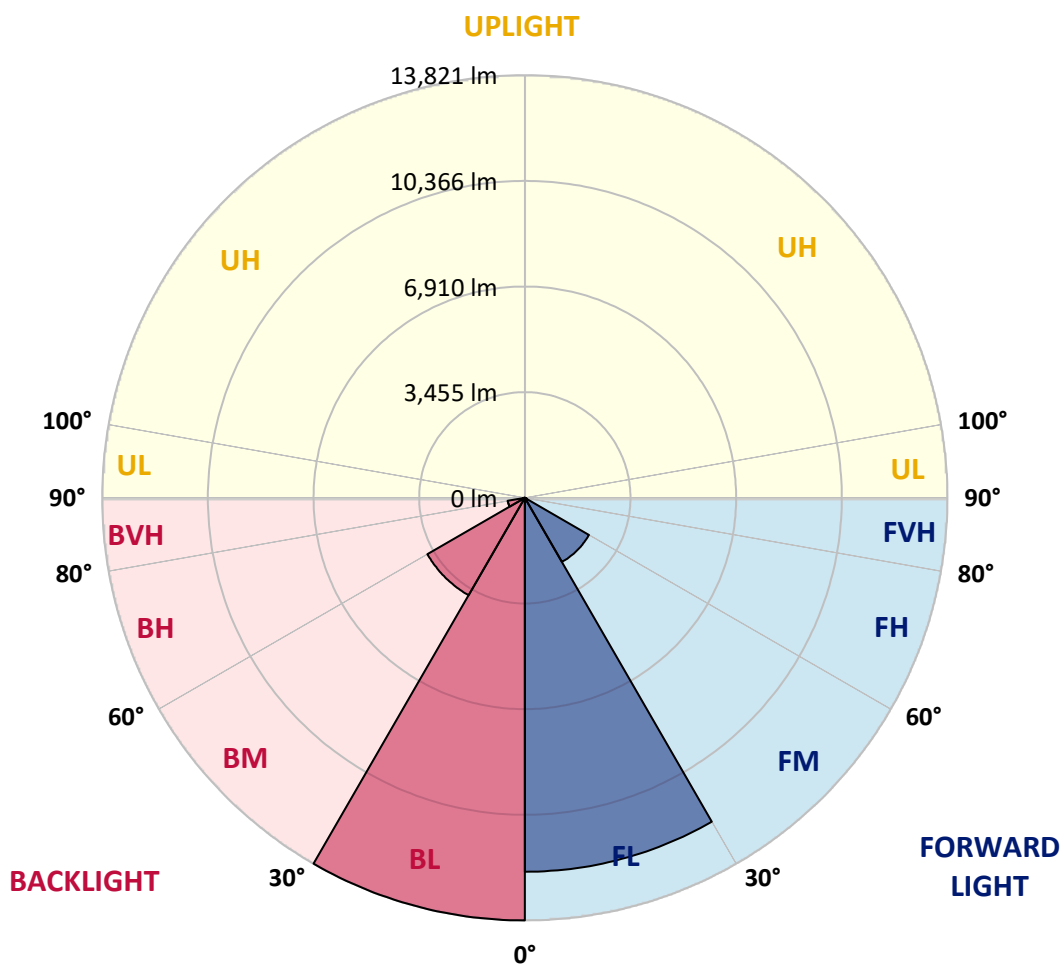


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12228.8	37.2			
FM (30°-60°)	2423.5	7.4			
FH (60°-80°)	58.7	0.2			G0/660
FVH (80°-90°)	6.0	0.0			G0/10
BL (0°-30°)	13820.7	42.1	B5		
BM (30°-60°)	3681.5	11.2	B3/5000		
BH (60°-80°)	570.7	1.7	B2/1000		G2/1000
BVH (80°-90°)	63.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	45767.0	45767.0	45767.0	45767.0	45767.0	45767.0	45767.0	45767.0	45767.0	45767.0
2.5°	44774.4	44926.0	44622.9	44823.7	44979.0	45350.3	45380.6	45509.4	45554.8	45892.0
5°	43925.9	44043.3	43797.1	44066.0	44285.8	44615.3	44869.2	45225.3	45422.3	45820.0
7.5°	43043.2	43069.7	43020.4	43304.6	43634.2	44088.8	44403.2	44869.2	44990.4	45558.6
10°	41974.9	41781.7	41876.4	42293.1	42785.6	43482.6	43698.6	44164.5	44380.5	44960.1
12.5°	40270.1	40368.6	40251.2	40781.5	41190.7	41982.4	42209.7	42679.5	43092.4	43603.8
15°	37868.3	37811.5	38050.1	38463.1	38906.3	39535.2	39902.6	40414.1	40728.5	41258.9
17.5°	32469.9	32663.1	33648.1	34682.3	35591.5	36326.4	36765.9	37190.2	37417.5	37993.3
20°	28041.3	27798.9	27931.5	28514.9	31102.3	32227.5	32689.6	32791.9	32886.6	33341.2
22.5°	23090.0	23010.4	23453.6	24109.0	24722.7	27317.8	27946.6	27708.0	27904.9	28333.0
25°	17146.0	17547.6	17941.6	19199.3	19994.9	21267.8	22461.1	22567.2	22639.1	22908.1
27.5°	13956.3	13816.1	13808.5	14160.8	15335.2	16396.0	17411.2	17646.1	17604.4	17862.0
30°	10971.0	10925.6	10766.5	10849.8	10732.4	11675.7	12153.0	13119.0	13066.0	13073.6
32.5°	7913.9	7743.4	7679.0	7804.0	7682.8	7595.6	8012.3	9103.4	9084.5	9160.2
35°	4788.5	4765.7	4818.8	4928.6	4686.2	4678.6	4765.7	5792.4	5917.4	6038.6
37.5°	2644.3	2621.5	2663.2	3068.6	2989.0	2917.0	2939.8	3481.5	3841.4	3932.3
40°	1742.6	1738.9	1769.2	1841.1	1977.5	1951.0	1962.4	2204.8	2545.8	2625.3
42.5°	1166.8	1170.6	1189.5	1272.9	1291.8	1428.2	1405.5	1462.3	1780.5	1848.7
45°	931.9	928.1	939.5	901.6	924.4	1064.5	1079.7	1083.5	1356.2	1397.9
47.5°	734.9	734.9	746.3	697.1	685.7	772.8	852.4	863.7	1083.5	1140.3
50°	515.2	515.2	572.0	549.3	575.8	602.3	689.5	700.8	886.5	947.1
52.5°	378.8	386.4	394.0	397.8	484.9	481.1	556.9	609.9	670.5	776.6
55°	287.9	295.5	276.5	295.5	359.9	401.6	416.7	492.5	534.2	651.6
57.5°	189.4	208.4	193.2	227.3	242.5	310.6	333.4	405.4	431.9	534.2
60°	26.5	30.3	49.2	159.1	170.5	204.6	257.6	322.0	348.5	435.7
62.5°	3.8	3.8	11.4	26.5	113.7	136.4	193.2	223.5	257.6	325.8
65°	0.0	0.0	3.8	7.6	22.7	79.6	98.5	121.2	178.1	234.9
67.5°	0.0	0.0	3.8	7.6	11.4	26.5	41.7	79.6	102.3	162.9
70°	0.0	0.0	3.8	7.6	11.4	15.2	22.7	30.3	60.6	94.7
72.5°	0.0	0.0	3.8	7.6	11.4	15.2	18.9	22.7	26.5	60.6
75°	0.0	0.0	3.8	7.6	11.4	18.9	22.7	22.7	22.7	26.5
77.5°	0.0	0.0	3.8	7.6	15.2	22.7	26.5	22.7	18.9	18.9
80°	0.0	0.0	3.8	11.4	18.9	26.5	30.3	22.7	15.2	11.4
82.5°	0.0	0.0	3.8	11.4	18.9	26.5	30.3	26.5	15.2	11.4
85°	0.0	0.0	3.8	11.4	15.2	18.9	30.3	26.5	15.2	7.6
87.5°	0.0	0.0	0.0	3.8	3.8	7.6	15.2	11.4	7.6	3.8
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°
45767.0	0°	45767.0	45767.0	45767.0	45767.0	45767.0	45767.0	45767.0	45767.0	45767.0
45884.4	2.5°	46225.4	46395.9	46695.1	46778.5	47036.1	46740.6	46577.7	46592.9	46240.5
45770.8	5°	46225.4	46615.6	47138.4	47388.4	47577.8	47562.7	47521.0	47414.9	47157.3
45543.5	7.5°	46104.2	46740.6	47460.4	47793.8	48021.1	48002.1	48096.8	47926.4	47611.9
45138.1	10°	45714.0	46267.1	47153.5	47426.3	47793.8	47801.3	47683.9	47718.0	47157.3
43656.9	12.5°	44486.5	44918.4	45695.0	46005.7	46452.7	46524.7	46395.9	46346.6	45816.2
41228.6	15°	42111.2	42361.3	43141.7	43452.3	43895.6	43834.9	43963.7	43910.7	43444.7
37947.9	17.5°	38637.3	38716.9	39535.2	39796.6	40213.3	40376.2	40183.0	40429.2	40027.7
33420.8	20°	33655.7	34083.7	35004.3	35405.9	35648.3	35940.0	35686.2	35962.8	35493.0
27927.7	22.5°	28602.0	28855.8	29689.3	30268.9	30719.7	30776.5	30681.8	30875.0	30242.4
23086.2	25°	23082.4	23502.9	24162.1	24919.7	25363.0	25635.7	25389.5	25514.5	25412.2
17903.7	27.5°	18206.8	18581.8	19078.1	19642.6	20309.3	20665.4	20468.4	20680.6	20180.5
13350.1	30°	13361.5	13550.9	14111.6	14710.1	15441.3	15873.2	15892.1	16108.0	15812.6
9353.4	32.5°	9421.6	9588.3	9933.0	10330.8	11027.9	11509.0	11433.2	11463.5	11281.7
6095.4	35°	6125.8	6349.3	6595.5	6784.9	7205.4	7735.8	7694.1	7656.2	7531.2
4008.1	37.5°	4095.2	4182.3	4318.7	4489.2	4761.9	5095.3	5205.2	5068.8	5015.8
2704.9	40°	2769.3	2920.8	3011.7	3140.5	3269.3	3549.7	3625.4	3598.9	3545.9
1894.2	42.5°	1966.2	2083.6	2197.2	2322.3	2390.4	2564.7	2712.5	2670.8	2648.1
1439.6	45°	1492.6	1598.7	1731.3	1826.0	1894.2	1996.5	2136.6	2151.8	2117.7
1155.4	47.5°	1197.1	1291.8	1397.9	1515.3	1594.9	1659.3	1780.5	1826.0	1803.3
973.6	50°	1015.3	1087.3	1189.5	1307.0	1394.1	1450.9	1557.0	1606.3	1591.1
814.5	52.5°	863.7	950.9	1045.6	1144.1	1250.2	1307.0	1405.5	1477.5	1466.1
674.3	55°	716.0	829.6	928.1	1026.6	1147.9	1204.7	1291.8	1386.5	1367.6
572.0	57.5°	625.1	719.8	822.1	916.8	1045.6	1121.4	1200.9	1299.4	1295.6
469.8	60°	522.8	617.5	731.2	810.7	947.1	1053.2	1125.1	1227.4	1235.0
356.1	62.5°	416.7	534.2	621.3	731.2	856.2	981.2	1049.4	1151.7	1189.5
272.8	65°	310.6	439.4	537.9	647.8	765.2	905.4	966.0	1068.3	1106.2
197.0	67.5°	231.1	329.6	454.6	549.3	681.9	803.1	875.1	969.8	996.3
117.4	70°	174.3	253.8	378.8	462.2	598.6	697.1	769.0	841.0	875.1
79.6	72.5°	102.3	189.4	299.3	397.8	515.2	598.6	651.6	708.4	731.2
37.9	75°	72.0	144.0	234.9	329.6	416.7	484.9	534.2	583.4	606.1
18.9	77.5°	37.9	106.1	185.6	265.2	325.8	382.6	431.9	469.8	484.9
15.2	80°	22.7	75.8	151.5	208.4	250.0	299.3	348.5	375.0	371.3
11.4	82.5°	15.2	60.6	109.9	151.5	181.8	219.7	253.8	272.8	272.8
7.6	85°	11.4	41.7	75.8	117.4	121.2	151.5	159.1	178.1	181.8
7.6	87.5°	7.6	26.5	41.7	68.2	64.4	79.6	83.3	94.7	102.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
45767.0  
45956.4  
47240.7  
47683.9  
46994.4  
45695.0  
43592.5  
39929.2  
35455.1  
30155.2  
25347.8  
20309.3  
15865.6  
11384.0  
7421.4  
5004.4  
3553.5  
2629.1  
2113.9  
1791.9  
1587.3  
1458.5  
1367.6  
1291.8  
1235.0  
1185.8  
1102.4  
996.3  
867.5  
723.6  
598.6  
481.1  
367.5  
269.0  
178.1  
98.5  
0.0

(END OF REPORT)