

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: P638743

Luminaire Tested: **EPH-VN-08-E-740-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638743
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-740-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57731 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

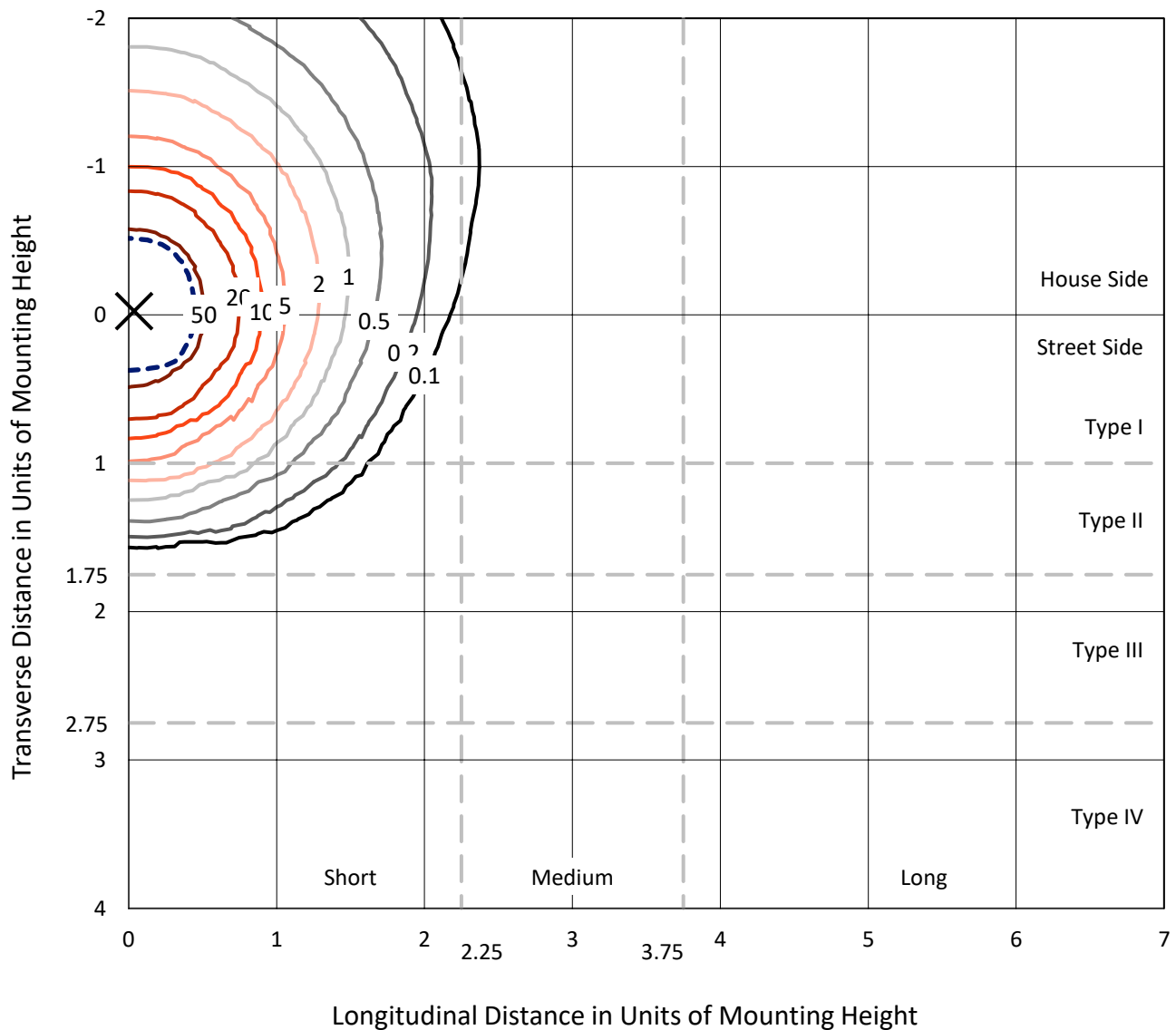
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

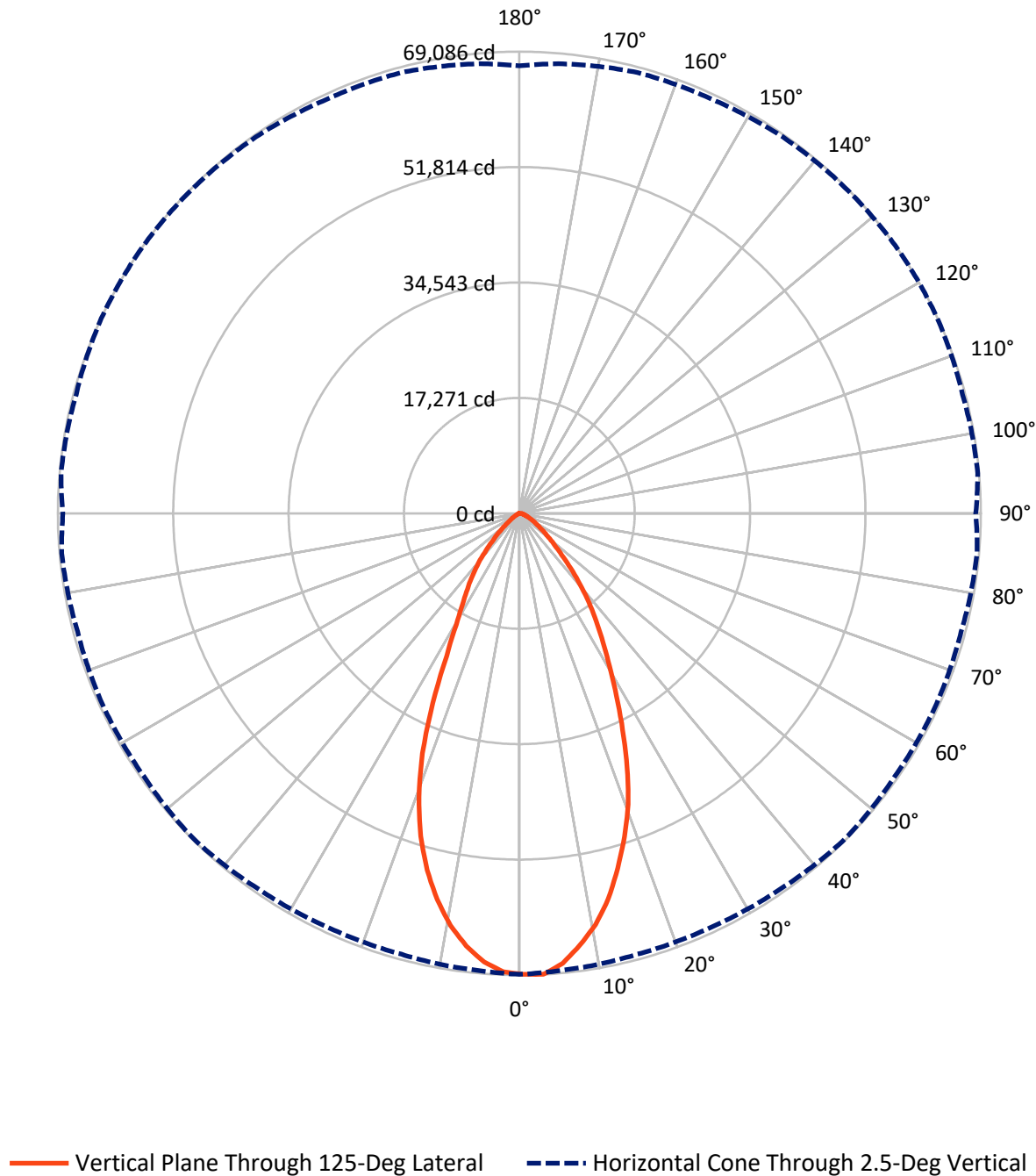
--- 1/2 Max cd



Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32758.9	0.0	32758.9
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	24972.2	0.0	24972.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	57731.0	0.0	57731.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6263.2	10.8
10°-20°	14930.0	25.9
20°-30°	15205.9	26.3
30°-40°	11339.0	19.6
40°-50°	5923.8	10.3
50°-60°	2491.6	4.3
60°-70°	1017.6	1.8
70°-80°	428.2	0.7
80°-90°	131.9	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°	57731.0	100.0
0°-180°	57731.0	100.0



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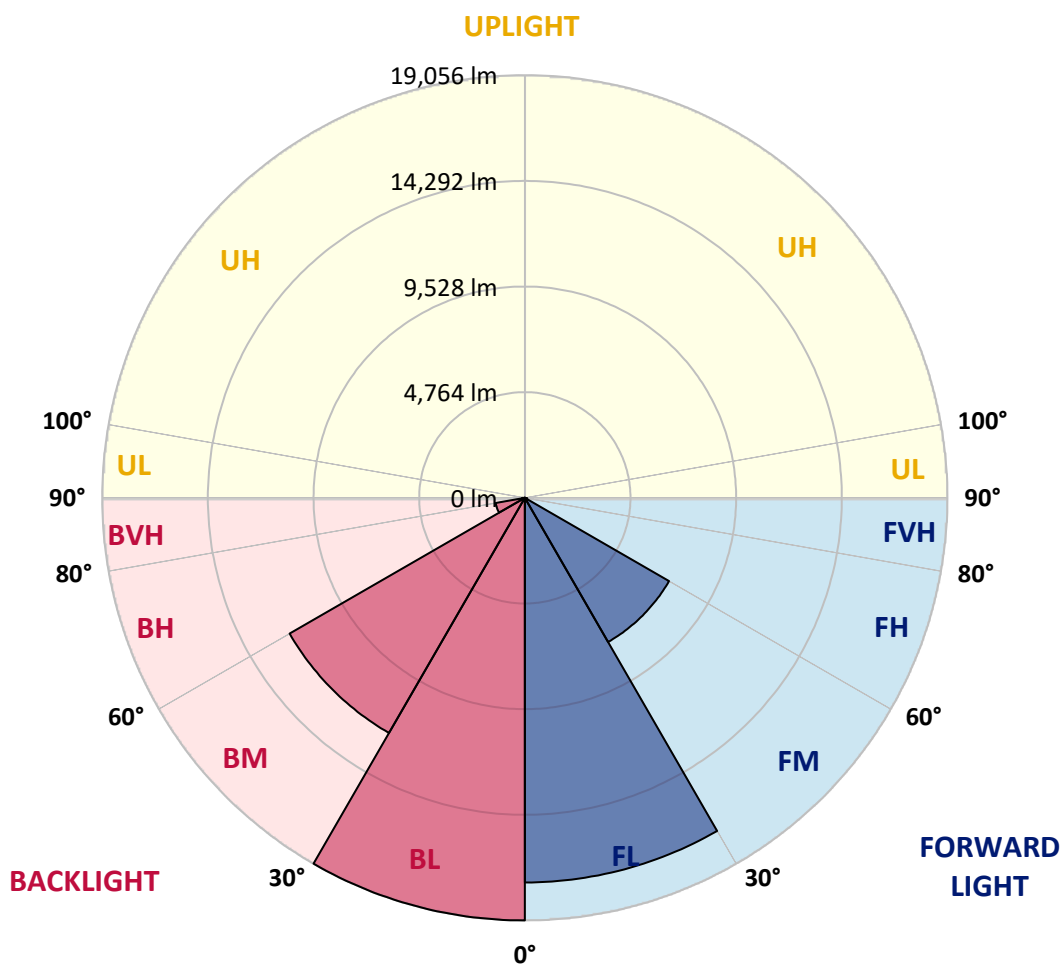
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	17343.1	30.0			
FM	(30°-60°)	7508.1	13.0			
FH	(60°-80°)	108.6	0.2			G0/660
FVH	(80°-90°)	12.3	0.0			G1/100
BL	(0°-30°)	19055.9	33.0	B5		
BM	(30°-60°)	12246.2	21.2	B5		
BH	(60°-80°)	1337.2	2.3	B3/2500		G3/2500
BVH	(80°-90°)	119.7	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°	68974.6	68974.6	68974.6	68974.6	68974.6	68974.6	68974.6	68974.6	68974.6	68974.6
2.5°	68982.0	68700.2	68299.8	68262.7	68470.4	68922.7	68633.5	68648.3	68470.4	68774.4
5°	67899.3	67632.4	67358.0	66994.6	67298.7	67491.5	67343.1	67180.0	66950.1	67246.7
7.5°	65852.6	65704.3	65296.4	65133.2	65318.6	65533.7	65214.8	65170.3	64851.4	65237.1
10°	62723.1	62663.8	62263.3	62166.9	62330.0	62656.3	62515.4	62485.8	62285.6	62248.5
12.5°	59475.0	59245.1	58748.2	58718.5	58963.3	59452.7	59074.5	58711.1	58822.4	58918.8
15°	51109.9	50865.2	52096.2	54031.7	55047.7	55010.6	55121.9	54684.3	54550.8	54595.3
17.5°	40631.3	40216.0	40661.0	43657.0	48484.7	51287.9	50516.6	49574.8	49070.5	48736.8
20°	35069.5	35091.7	35010.1	35781.4	38792.2	45184.7	44999.3	43182.4	42522.4	42248.0
22.5°	31687.8	31561.8	31383.8	31628.5	32436.8	36189.2	38703.2	37034.7	36804.8	36500.7
25°	28373.0	28373.0	28157.9	28402.6	28632.5	28684.4	31205.8	31888.1	31443.1	31443.1
27.5°	25503.0	25354.7	25258.3	25369.6	25065.5	23604.6	23923.5	27416.3	27112.3	26926.9
30°	22655.4	22610.9	22447.7	22596.0	21468.8	19822.5	19155.1	23137.4	23456.3	23389.5
32.5°	18702.7	18880.7	19607.5	19837.3	17909.2	16581.8	15944.0	19207.0	20482.5	20430.6
35°	12710.7	12859.0	13689.6	16433.5	14846.5	13897.3	13711.9	15276.6	17375.3	17575.5
37.5°	10122.6	10100.4	10337.7	10827.1	11932.1	11702.2	11650.3	12058.1	14171.7	14260.6
40°	8342.8	8313.1	8305.7	7905.3	7630.9	9729.6	9588.7	9343.9	11175.7	11353.6
42.5°	6726.2	6755.8	6778.1	5903.0	5502.5	7504.8	7423.2	7171.1	8765.5	8973.2
45°	5280.1	5272.7	5317.1	4397.6	4286.3	4798.0	5547.0	5346.8	6614.9	6837.4
47.5°	2736.4	2832.8	3433.5	3403.9	3455.8	3403.9	4197.4	4145.4	4976.0	5332.0
50°	1839.1	1868.8	1920.7	1928.1	2721.6	2506.6	2847.7	3225.9	3485.4	4034.2
52.5°	1423.8	1446.1	1312.6	1231.0	1668.6	1854.0	1868.8	2232.2	2432.4	2988.6
55°	793.5	889.9	956.6	964.1	919.6	1371.9	1364.5	1653.7	1809.5	2180.3
57.5°	103.8	126.1	192.8	622.9	615.5	763.8	956.6	1201.4	1290.4	1594.4
60°	7.4	14.8	22.2	96.4	407.9	444.9	652.6	749.0	897.3	1119.8
62.5°	0.0	0.0	7.4	22.2	81.6	259.6	341.1	393.0	526.5	734.2
65°	0.0	0.0	7.4	14.8	29.7	96.4	133.5	215.1	311.5	452.4
67.5°	0.0	0.0	7.4	14.8	22.2	37.1	59.3	96.4	163.1	274.4
70°	0.0	0.0	7.4	14.8	22.2	29.7	44.5	59.3	89.0	148.3
72.5°	0.0	0.0	7.4	7.4	14.8	37.1	37.1	44.5	59.3	81.6
75°	0.0	0.0	7.4	14.8	22.2	37.1	37.1	37.1	44.5	51.9
77.5°	0.0	0.0	7.4	14.8	22.2	37.1	29.7	37.1	37.1	37.1
80°	0.0	0.0	7.4	14.8	22.2	37.1	44.5	37.1	29.7	29.7
82.5°	0.0	0.0	7.4	22.2	22.2	51.9	51.9	51.9	22.2	22.2
85°	0.0	0.0	14.8	22.2	37.1	59.3	59.3	44.5	22.2	14.8
87.5°	0.0	0.0	7.4	14.8	14.8	29.7	44.5	37.1	14.8	7.4
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°
68974.6	0°	68974.6	68974.6	68974.6	68974.6	68974.6	68974.6	68974.6	68974.6	68974.6
68329.5	2.5°	68878.2	68692.8	69041.4	69085.9	68937.6	68752.2	68322.0	68285.0	67536.0
66816.6	5°	67573.0	67269.0	67491.5	67639.8	67587.9	67387.6	67209.7	67046.5	66371.7
64362.0	7.5°	65140.6	65029.4	65133.2	65244.5	65459.5	65244.5	65170.3	64999.7	64332.3
61944.4	10°	62441.3	62233.6	62626.7	62574.8	62515.4	62456.1	62144.7	62174.3	61388.2
58651.8	12.5°	59126.4	58777.9	59156.1	59200.6	59156.1	58948.4	58599.9	58748.2	58028.9
54202.3	15°	54669.5	54632.4	54906.8	55084.8	55210.9	54988.4	54869.7	54943.9	54513.8
48477.3	17.5°	49196.6	49678.6	50576.0	50880.0	50887.4	51117.3	51050.6	50961.6	50642.7
42136.7	20°	42759.7	43686.7	45066.0	46482.4	46890.3	46697.5	46608.5	46771.6	46297.0
36181.8	22.5°	36819.6	37613.1	39214.9	41283.9	42477.9	42596.5	42574.3	42433.4	42248.0
31413.5	25°	31776.8	32481.3	34016.4	35907.4	38198.9	38540.1	38554.9	38510.4	38347.3
27090.0	27.5°	27520.1	28373.0	29218.4	30909.2	33349.0	34758.0	34580.0	34528.1	34468.8
23441.4	30°	23663.9	24739.2	25532.7	26585.7	28773.4	30679.3	30864.7	30775.7	30634.8
20423.2	32.5°	20608.6	21246.4	22254.9	22966.8	24539.0	26697.0	27408.9	27342.2	27216.1
17701.6	35°	17953.7	18205.9	18999.4	19792.8	20838.5	22929.7	23982.8	23834.5	23812.2
14423.8	37.5°	14787.2	15632.6	16070.1	16871.0	17605.2	19229.2	20682.7	20616.0	20623.4
11598.4	40°	11939.5	12428.9	13296.6	13971.4	14646.3	15832.8	17449.4	17493.9	17479.1
8980.6	42.5°	9166.0	9640.6	10552.7	11286.9	11887.6	12621.7	14164.2	14216.1	14282.9
6993.1	45°	7156.3	7460.3	8127.7	8891.6	9529.3	9974.3	11146.0	11479.7	11487.1
5421.0	47.5°	5554.5	5903.0	6377.6	7111.8	7734.7	8053.6	8906.4	9358.8	9336.5
4160.3	50°	4360.5	4679.4	5065.0	5643.4	6318.3	6570.4	7200.8	7645.7	7623.5
3136.9	52.5°	3337.1	3745.0	4086.1	4531.1	5191.1	5406.1	5858.5	6370.2	6296.0
2298.9	55°	2528.8	2944.1	3263.0	3633.8	4234.4	4508.8	4820.3	5228.2	5243.0
1779.8	57.5°	1905.9	2336.0	2625.2	3003.4	3455.8	3759.8	3997.1	4434.7	4427.3
1216.2	60°	1364.5	1735.3	2083.8	2476.9	2825.4	3174.0	3337.1	3752.4	3767.2
860.2	62.5°	986.3	1334.8	1668.6	2009.7	2321.2	2662.3	2810.6	3136.9	3181.4
563.6	65°	689.7	934.4	1320.0	1579.6	1928.1	2180.3	2373.1	2654.9	2706.8
333.7	67.5°	444.9	674.8	1045.6	1275.5	1594.4	1809.5	2009.7	2232.2	2298.9
215.1	70°	267.0	511.7	778.7	1023.4	1312.6	1505.4	1698.2	1891.0	1928.1
103.8	72.5°	170.6	356.0	563.6	830.6	1053.0	1260.7	1431.3	1572.2	1460.9
66.7	75°	96.4	244.7	444.9	652.6	852.8	1053.0	1193.9	1268.1	1016.0
44.5	77.5°	59.3	178.0	363.4	526.5	660.0	845.4	934.4	978.9	726.8
29.7	80°	37.1	133.5	304.0	430.1	430.1	622.9	726.8	763.8	526.5
22.2	82.5°	29.7	96.4	237.3	326.3	289.2	467.2	571.0	578.4	370.8
14.8	85°	22.2	74.2	148.3	215.1	200.2	326.3	333.7	370.8	244.7
14.8	87.5°	14.8	44.5	89.0	126.1	111.2	155.7	178.0	200.2	133.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
68974.6
66950.1
65830.3
64191.4
61121.3
57821.2
53994.7
50168.1
45955.9
41892.0
37798.5
34120.2
30456.8
26882.4
23567.5
20386.1
17219.6
14060.4
11294.3
9255.0
7623.5
6303.5
5243.0
4412.4
3730.2
3166.6
2691.9
2291.5
1898.5
1357.1
964.1
682.3
489.4
341.1
222.5
118.7
0.0

(END OF REPORT)