

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: P638738

Luminaire Tested: **EPH-VN-03-E-740-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638738
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-03-E-740-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (48) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22744.3 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 232.1
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



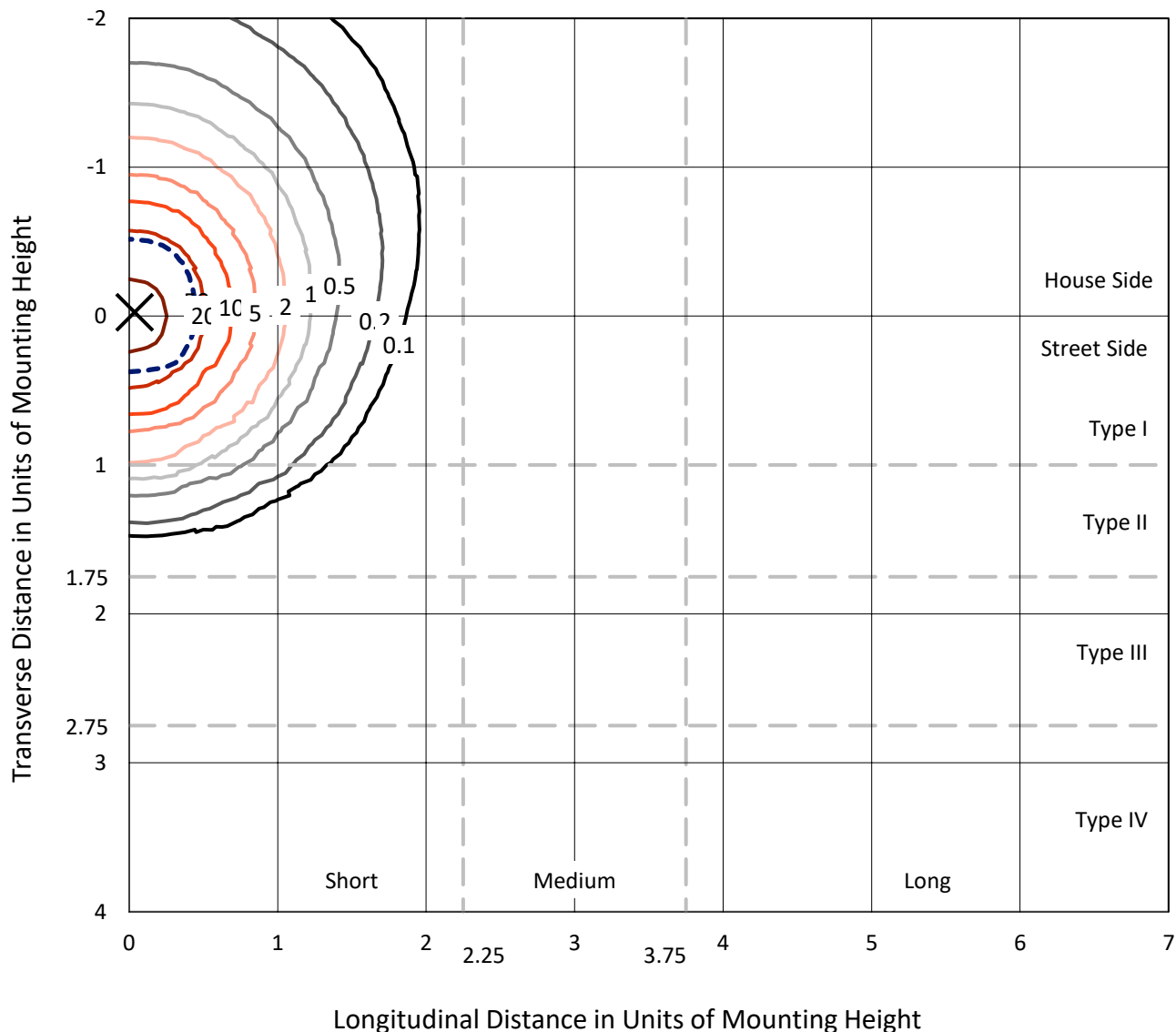
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

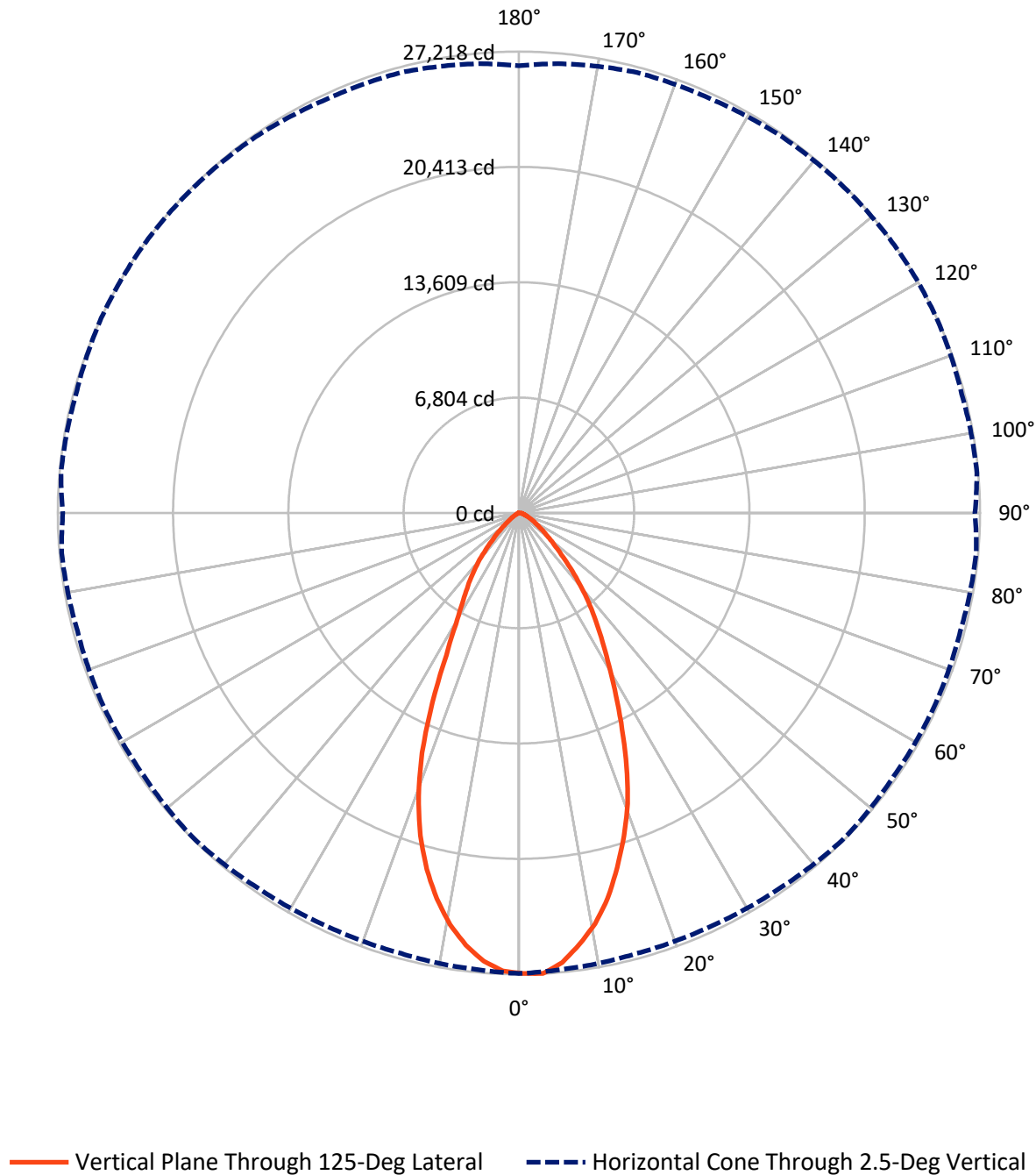


Based on 20 foot mounting height. Maximum calculated value = 67.9 fc

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	12906.0	0.0	12906.0
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	9838.3	0.0	9838.3
	% Fixture	43.3	0.0	43.3
Total	Lumens	22744.3	0.0	22744.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2467.5	10.8
10°-20°	5881.9	25.9
20°-30°	5990.6	26.3
30°-40°	4467.2	19.6
40°-50°	2333.8	10.3
50°-60°	981.6	4.3
60°-70°	400.9	1.8
70°-80°	168.7	0.7
80°-90°	52.0	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°	22744.3	100.0
0°-180°	22744.3	100.0

Coefficient of Utilization



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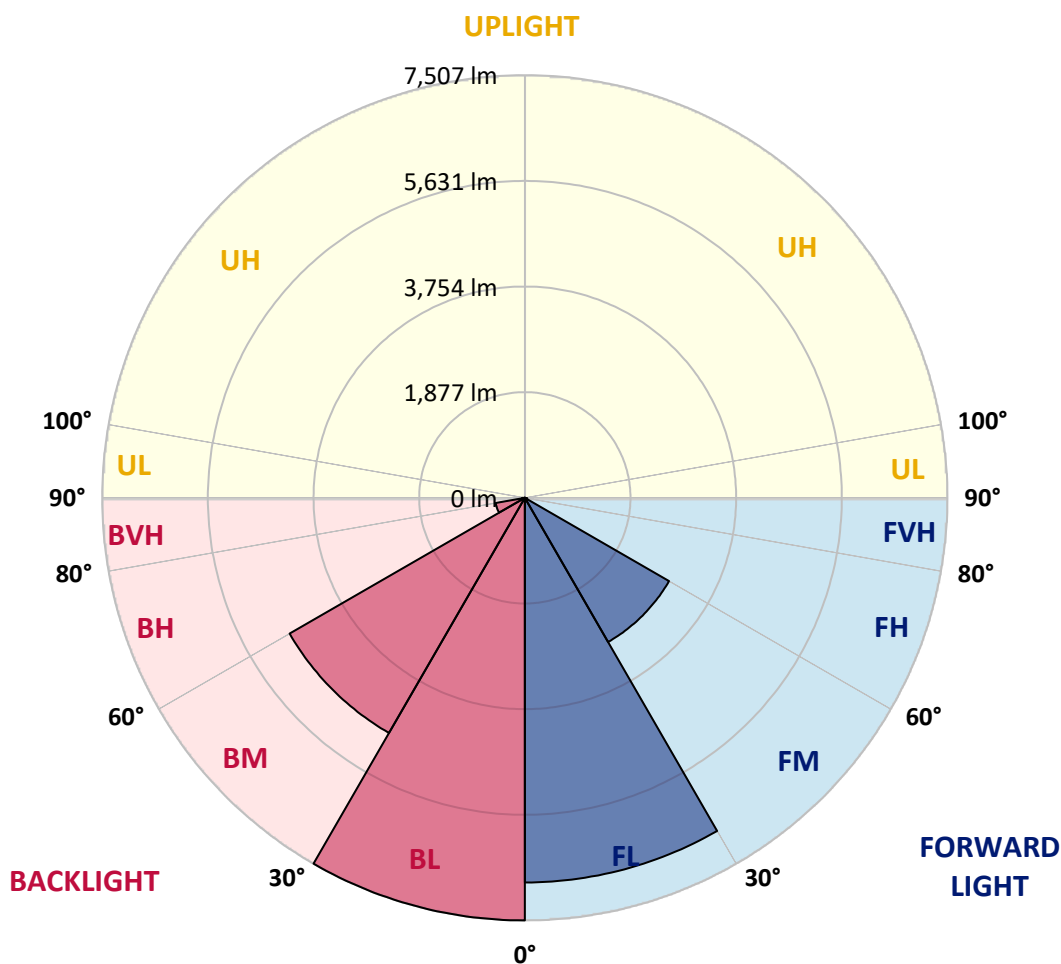
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6832.7	30.0			
FM	(30°-60°)	2958.0	13.0			
FH	(60°-80°)	42.8	0.2			G0/660
FVH	(80°-90°)	4.8	0.0			G0/10
BL	(0°-30°)	7507.4	33.0	B5		
BM	(30°-60°)	4824.6	21.2	B3/5000		
BH	(60°-80°)	526.8	2.3	B2/1000		G2/1000
BVH	(80°-90°)	47.2	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°	27173.9	27173.9	27173.9	27173.9	27173.9	27173.9	27173.9	27173.9	27173.9	27173.9
2.5°	27176.8	27065.8	26908.0	26893.4	26975.2	27153.4	27039.5	27045.3	26975.2	27095.0
5°	26750.2	26645.1	26537.0	26393.8	26513.6	26589.6	26531.1	26466.9	26376.3	26493.1
7.5°	25943.9	25885.5	25724.8	25660.5	25733.5	25818.3	25692.6	25675.1	25549.5	25701.4
10°	24711.0	24687.6	24529.8	24491.8	24556.1	24684.7	24629.2	24617.5	24538.6	24524.0
12.5°	23431.3	23340.7	23145.0	23133.3	23229.7	23422.5	23273.5	23130.4	23174.2	23212.2
15°	20135.7	20039.3	20524.3	21286.8	21687.1	21672.5	21716.3	21543.9	21491.4	21508.9
17.5°	16007.5	15843.9	16019.2	17199.5	19101.5	20205.8	19902.0	19531.0	19332.3	19200.8
20°	13816.3	13825.1	13792.9	14096.8	15282.9	17801.4	17728.3	17012.5	16752.5	16644.4
22.5°	12484.0	12434.4	12364.2	12460.7	12779.1	14257.4	15247.9	14590.5	14499.9	14380.2
25°	11178.1	11178.1	11093.3	11189.8	11280.3	11300.8	12294.1	12562.9	12387.6	12387.6
27.5°	10047.4	9989.0	9951.0	9994.8	9875.0	9299.5	9425.1	10801.2	10681.4	10608.4
30°	8925.5	8908.0	8843.7	8902.1	8458.1	7809.5	7546.5	9115.4	9241.0	9214.8
32.5°	7368.3	7438.4	7724.7	7815.3	7055.7	6532.7	6281.5	7567.0	8069.5	8049.0
35°	5007.6	5066.1	5393.3	6474.3	5849.1	5475.1	5402.1	6018.5	6845.3	6924.2
37.5°	3988.0	3979.2	4072.7	4265.5	4700.9	4610.3	4589.8	4750.5	5583.2	5618.3
40°	3286.8	3275.1	3272.2	3114.4	3006.3	3833.2	3777.6	3681.2	4402.9	4473.0
42.5°	2649.9	2661.6	2670.4	2325.6	2167.8	2956.7	2924.5	2825.2	3453.3	3535.1
45°	2080.2	2077.3	2094.8	1732.5	1688.7	1890.3	2185.4	2106.5	2606.1	2693.7
47.5°	1078.1	1116.1	1352.7	1341.0	1361.5	1341.0	1653.6	1633.2	1960.4	2100.6
50°	724.6	736.2	756.7	759.6	1072.2	987.5	1121.9	1270.9	1373.2	1589.4
52.5°	560.9	569.7	517.1	485.0	657.4	730.4	736.2	879.4	958.3	1177.4
55°	312.6	350.6	376.9	379.8	362.3	540.5	537.6	651.5	712.9	859.0
57.5°	40.9	49.7	76.0	245.4	242.5	300.9	376.9	473.3	508.4	628.1
60°	2.9	5.8	8.8	38.0	160.7	175.3	257.1	295.1	353.5	441.2
62.5°	0.0	0.0	2.9	8.8	32.1	102.3	134.4	154.8	207.4	289.2
65°	0.0	0.0	2.9	5.8	11.7	38.0	52.6	84.7	122.7	178.2
67.5°	0.0	0.0	2.9	5.8	8.8	14.6	23.4	38.0	64.3	108.1
70°	0.0	0.0	2.9	5.8	8.8	11.7	17.5	23.4	35.1	58.4
72.5°	0.0	0.0	2.9	2.9	5.8	14.6	14.6	17.5	23.4	32.1
75°	0.0	0.0	2.9	5.8	8.8	14.6	14.6	14.6	17.5	20.5
77.5°	0.0	0.0	2.9	5.8	8.8	14.6	11.7	14.6	14.6	14.6
80°	0.0	0.0	2.9	5.8	8.8	14.6	17.5	14.6	11.7	11.7
82.5°	0.0	0.0	2.9	8.8	8.8	20.5	20.5	20.5	8.8	8.8
85°	0.0	0.0	5.8	8.8	14.6	23.4	23.4	17.5	8.8	5.8
87.5°	0.0	0.0	2.9	5.8	5.8	11.7	17.5	14.6	5.8	2.9
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°
27173.9	0°	27173.9	27173.9	27173.9	27173.9	27173.9	27173.9	27173.9	27173.9	27173.9
26919.7	2.5°	27135.9	27062.9	27200.2	27217.7	27159.3	27086.2	26916.8	26902.2	26607.1
26323.7	5°	26621.7	26501.9	26589.6	26648.0	26627.5	26548.7	26478.5	26414.3	26148.4
25356.6	7.5°	25663.4	25619.6	25660.5	25704.3	25789.0	25704.3	25675.1	25607.9	25345.0
24404.2	10°	24599.9	24518.1	24673.0	24652.5	24629.2	24605.8	24483.1	24494.8	24185.1
23107.0	12.5°	23294.0	23156.7	23305.7	23323.2	23305.7	23223.9	23086.6	23145.0	22861.6
21354.0	15°	21538.1	21523.5	21631.6	21701.7	21751.4	21663.7	21617.0	21646.2	21476.7
19098.6	17.5°	19382.0	19571.9	19925.4	20045.2	20048.1	20138.6	20112.4	20077.3	19951.7
16600.6	20°	16846.0	17211.2	17754.6	18312.6	18473.3	18397.4	18362.3	18426.6	18239.6
14254.5	22.5°	14505.8	14818.4	15449.5	16264.6	16735.0	16781.7	16773.0	16717.4	16644.4
12375.9	25°	12519.1	12796.6	13401.4	14146.4	15049.2	15183.6	15189.4	15171.9	15107.6
10672.6	27.5°	10842.1	11178.1	11511.1	12177.3	13138.5	13693.6	13623.5	13603.0	13579.6
9235.2	30°	9322.9	9746.5	10059.1	10474.0	11335.8	12086.7	12159.7	12124.7	12069.2
8046.1	32.5°	8119.2	8370.4	8767.7	9048.2	9667.6	10517.8	10798.3	10772.0	10722.3
6973.9	35°	7073.2	7172.5	7485.2	7797.8	8209.7	9033.6	9448.5	9390.0	9381.3
5682.5	37.5°	5825.7	6158.8	6331.1	6646.7	6935.9	7575.7	8148.4	8122.1	8125.0
4569.4	40°	4703.8	4896.6	5238.4	5504.3	5770.2	6237.6	6874.5	6892.1	6886.2
3538.1	42.5°	3611.1	3798.1	4157.4	4446.7	4683.3	4972.6	5580.3	5600.7	5627.0
2755.1	45°	2819.4	2939.1	3202.1	3503.0	3754.3	3929.6	4391.2	4522.6	4525.6
2135.7	47.5°	2188.3	2325.6	2512.6	2801.8	3047.2	3172.9	3508.9	3687.1	3678.3
1639.0	50°	1717.9	1843.5	1995.5	2223.3	2489.2	2588.5	2836.9	3012.2	3003.4
1235.8	52.5°	1314.7	1475.4	1609.8	1785.1	2045.1	2129.9	2308.1	2509.7	2480.4
905.7	55°	996.3	1159.9	1285.5	1431.6	1668.2	1776.3	1899.0	2059.7	2065.6
701.2	57.5°	750.9	920.3	1034.2	1183.3	1361.5	1481.3	1574.7	1747.1	1744.2
479.1	60°	537.6	683.7	821.0	975.8	1113.1	1250.4	1314.7	1478.3	1484.2
338.9	62.5°	388.6	525.9	657.4	791.8	914.5	1048.9	1107.3	1235.8	1253.4
222.0	65°	271.7	368.1	520.0	622.3	759.6	859.0	934.9	1045.9	1066.4
131.5	67.5°	175.3	265.9	411.9	502.5	628.1	712.9	791.8	879.4	905.7
84.7	70°	105.2	201.6	306.8	403.2	517.1	593.1	669.0	745.0	759.6
40.9	72.5°	67.2	140.2	222.0	327.2	414.9	496.7	563.9	619.4	575.6
26.3	75°	38.0	96.4	175.3	257.1	336.0	414.9	470.4	499.6	400.3
17.5	77.5°	23.4	70.1	143.2	207.4	260.0	333.1	368.1	385.7	286.3
11.7	80°	14.6	52.6	119.8	169.5	169.5	245.4	286.3	300.9	207.4
8.8	82.5°	11.7	38.0	93.5	128.6	113.9	184.1	225.0	227.9	146.1
5.8	85°	8.8	29.2	58.4	84.7	78.9	128.6	131.5	146.1	96.4
5.8	87.5°	5.8	17.5	35.1	49.7	43.8	61.4	70.1	78.9	52.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
27173.9
26376.3
25935.1
25289.4
24079.9
22779.8
21272.2
19764.7
18105.2
16504.2
14891.4
13442.3
11999.0
10590.8
9284.9
8031.5
6784.0
5539.4
4449.6
3646.2
3003.4
2483.4
2065.6
1738.4
1469.6
1247.5
1060.5
902.8
747.9
534.7
379.8
268.8
192.8
134.4
87.6
46.7
0.0

(END OF REPORT)