

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: P638726

Luminaire Tested: **EPH-VN-03-E-730-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638726
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-730-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (48) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20710.9 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

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



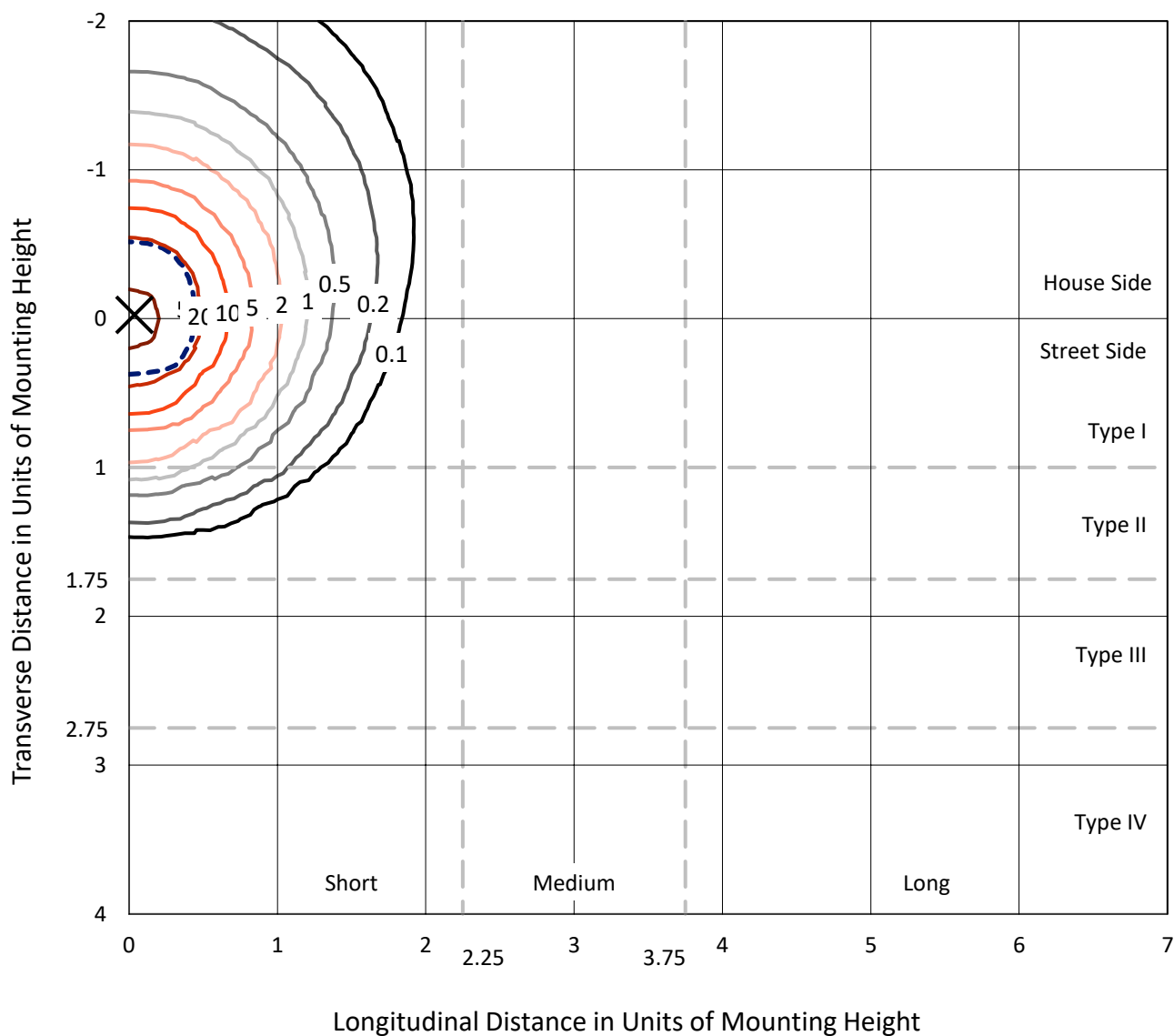
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

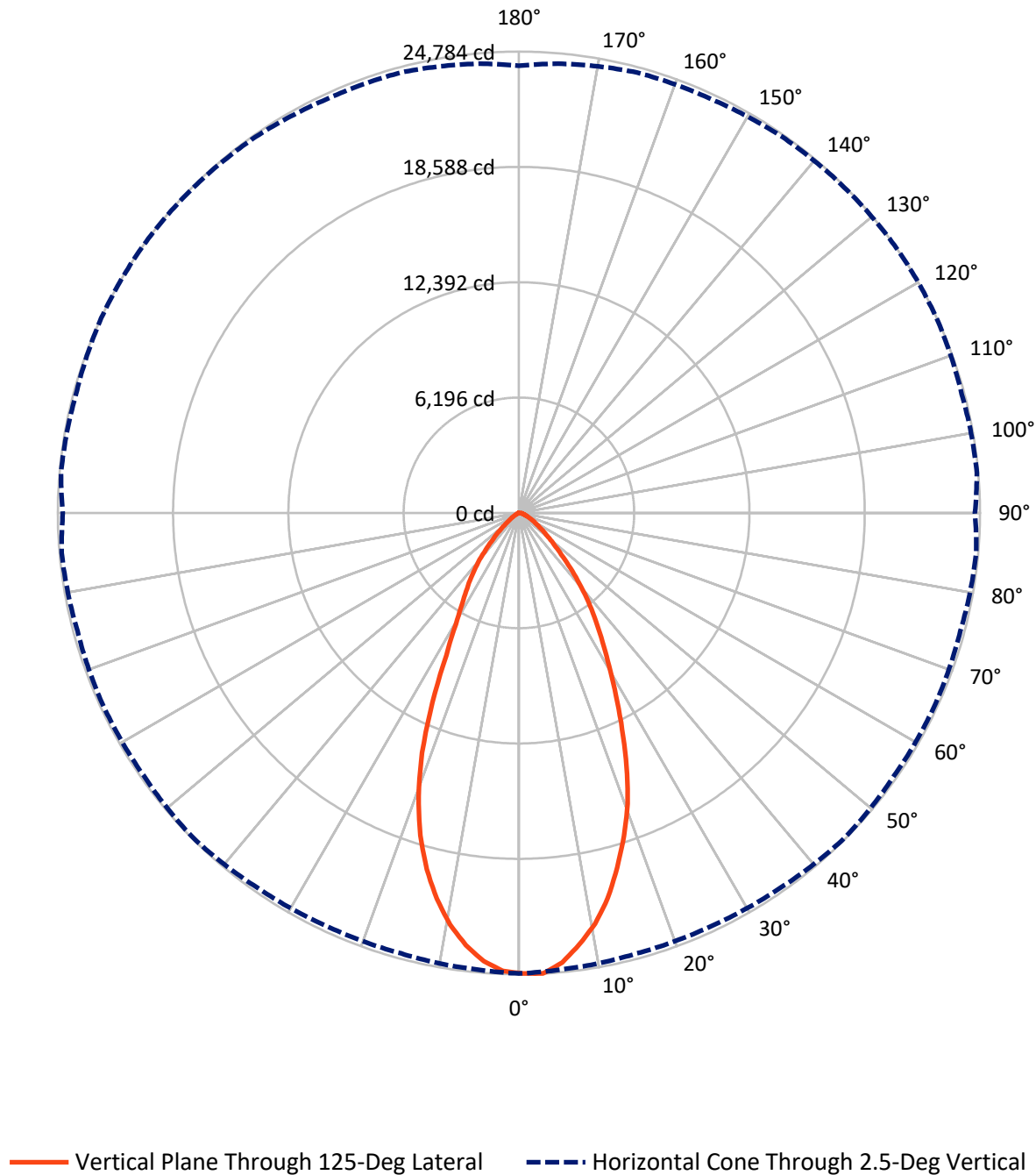


Based on 20 foot mounting height. Maximum calculated value = 61.9 fc

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	11752.2	0.0	11752.2
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	8958.7	0.0	8958.7
	% Fixture	43.3	0.0	43.3
Total	Lumens	20710.9	0.0	20710.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2246.9	10.8
10°-20°	5356.1	25.9
20°-30°	5455.1	26.3
30°-40°	4067.8	19.6
40°-50°	2125.1	10.3
50°-60°	893.8	4.3
60°-70°	365.1	1.8
70°-80°	153.6	0.7
80°-90°	47.3	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°	20710.9	100.0
0°-180°	20710.9	100.0

Coefficient of Utilization



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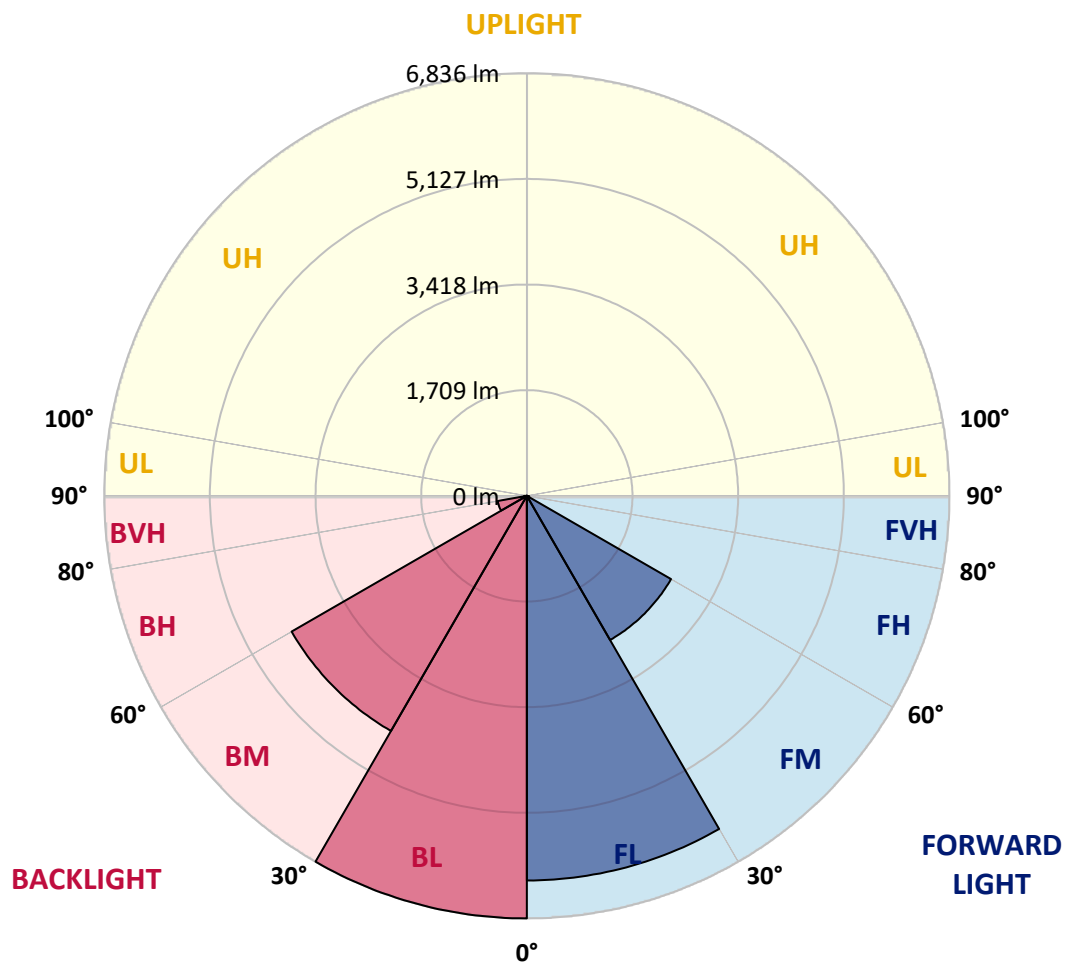
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6221.8	30.0			
FM	(30°-60°)	2693.5	13.0			
FH	(60°-80°)	39.0	0.2			G0/660
FVH	(80°-90°)	4.4	0.0			G0/10
BL	(0°-30°)	6836.3	33.0	B5		
BM	(30°-60°)	4393.3	21.2	B3/5000		
BH	(60°-80°)	479.7	2.3	B1/500		G1/500
BVH	(80°-90°)	42.9	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-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	24744.5	24744.5	24744.5	24744.5	24744.5	24744.5	24744.5	24744.5	24744.5	24744.5
2.5°	24747.2	24646.1	24502.4	24489.1	24563.6	24725.9	24622.2	24627.5	24563.6	24672.7
5°	24358.8	24263.0	24164.6	24034.2	24143.3	24212.5	24159.2	24100.7	24018.2	24124.7
7.5°	23624.5	23571.3	23425.0	23366.4	23433.0	23510.1	23395.7	23379.7	23265.3	23403.7
10°	22501.8	22480.5	22336.9	22302.3	22360.8	22477.9	22427.3	22416.7	22344.8	22331.5
12.5°	21336.5	21254.1	21075.8	21065.2	21153.0	21328.6	21192.9	21062.5	21102.4	21137.0
15°	18335.6	18247.8	18689.4	19383.8	19748.3	19735.0	19774.9	19617.9	19570.0	19586.0
17.5°	14576.4	14427.4	14587.1	15661.9	17393.8	18399.4	18122.8	17784.9	17604.0	17484.3
20°	12581.1	12589.1	12559.8	12836.5	13916.6	16209.9	16143.4	15491.6	15254.8	15156.4
22.5°	11368.0	11322.7	11258.9	11346.7	11636.7	12982.8	13884.7	13286.1	13203.6	13094.6
25°	10178.8	10178.8	10101.6	10189.4	10271.9	10290.5	11195.0	11439.8	11280.2	11280.2
27.5°	9149.2	9096.0	9061.4	9101.3	8992.2	8468.1	8582.5	9835.6	9726.5	9660.0
30°	8127.6	8111.6	8053.1	8106.3	7701.9	7111.3	6871.9	8300.5	8414.9	8391.0
32.5°	6709.6	6773.4	7034.1	7116.6	6424.9	5948.7	5719.9	6890.5	7348.1	7329.4
35°	4560.0	4613.2	4911.1	5895.5	5326.2	4985.6	4919.1	5480.5	6233.4	6305.2
37.5°	3631.5	3623.5	3708.6	3884.2	4280.6	4198.1	4179.5	4325.8	5084.1	5116.0
40°	2993.0	2982.3	2979.7	2836.0	2737.6	3490.5	3439.9	3352.1	4009.2	4073.1
42.5°	2413.0	2423.6	2431.6	2117.7	1974.0	2692.3	2663.1	2572.6	3144.6	3219.1
45°	1894.2	1891.6	1907.5	1577.6	1537.7	1721.3	1990.0	1918.2	2373.1	2452.9
47.5°	981.7	1016.3	1231.8	1221.1	1239.8	1221.1	1505.8	1487.2	1785.1	1912.8
50°	659.8	670.4	689.0	691.7	976.4	899.2	1021.6	1157.3	1250.4	1447.3
52.5°	510.8	518.8	470.9	441.6	598.6	665.1	670.4	800.8	872.6	1072.1
55°	284.7	319.3	343.2	345.9	329.9	492.2	489.5	593.3	649.1	782.2
57.5°	37.2	45.2	69.2	223.5	220.8	274.0	343.2	431.0	462.9	572.0
60°	2.7	5.3	8.0	34.6	146.3	159.6	234.1	268.7	321.9	401.7
62.5°	0.0	0.0	2.7	8.0	29.3	93.1	122.4	141.0	188.9	263.4
65°	0.0	0.0	2.7	5.3	10.6	34.6	47.9	77.2	111.7	162.3
67.5°	0.0	0.0	2.7	5.3	8.0	13.3	21.3	34.6	58.5	98.4
70°	0.0	0.0	2.7	5.3	8.0	10.6	16.0	21.3	31.9	53.2
72.5°	0.0	0.0	2.7	2.7	5.3	13.3	13.3	16.0	21.3	29.3
75°	0.0	0.0	2.7	5.3	8.0	13.3	13.3	13.3	16.0	18.6
77.5°	0.0	0.0	2.7	5.3	8.0	13.3	10.6	13.3	13.3	13.3
80°	0.0	0.0	2.7	5.3	8.0	13.3	16.0	13.3	10.6	10.6
82.5°	0.0	0.0	2.7	8.0	8.0	18.6	18.6	18.6	8.0	8.0
85°	0.0	0.0	5.3	8.0	13.3	21.3	21.3	16.0	8.0	5.3
87.5°	0.0	0.0	2.7	5.3	5.3	10.6	16.0	13.3	5.3	2.7
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°
24744.5	0°	24744.5	24744.5	24744.5	24744.5	24744.5	24744.5	24744.5	24744.5	24744.5
24513.1	2.5°	24710.0	24643.4	24768.5	24784.4	24731.2	24664.7	24510.4	24497.1	24228.4
23970.4	5°	24241.7	24132.6	24212.5	24265.7	24247.0	24175.2	24111.4	24052.8	23810.7
23089.8	7.5°	23369.1	23329.2	23366.4	23406.3	23483.5	23406.3	23379.7	23318.6	23079.1
22222.5	10°	22400.7	22326.2	22467.2	22448.6	22427.3	22406.0	22294.3	22304.9	22022.9
21041.2	12.5°	21211.5	21086.5	21222.1	21238.1	21222.1	21147.7	21022.6	21075.8	20817.8
19445.0	15°	19612.6	19599.3	19697.7	19761.6	19806.8	19727.0	19684.4	19711.0	19556.7
17391.1	17.5°	17649.2	17822.1	18144.0	18253.1	18255.8	18338.3	18314.3	18282.4	18168.0
15116.5	20°	15340.0	15672.5	16167.4	16675.5	16821.8	16752.6	16720.7	16779.2	16609.0
12980.2	22.5°	13209.0	13493.6	14068.3	14810.5	15238.9	15281.4	15273.5	15222.9	15156.4
11269.5	25°	11399.9	11652.6	12203.3	12881.7	13703.8	13826.2	13831.5	13815.5	13757.0
9718.5	27.5°	9872.8	10178.8	10482.0	11088.6	11963.9	12469.4	12405.5	12386.9	12365.6
8409.6	30°	8489.4	8875.2	9159.8	9537.6	10322.4	11006.1	11072.7	11040.7	10990.2
7326.8	32.5°	7393.3	7622.1	7983.9	8239.3	8803.3	9577.5	9832.9	9809.0	9763.7
6350.4	35°	6440.9	6531.3	6816.0	7100.7	7475.8	8226.0	8603.8	8550.6	8542.6
5174.5	37.5°	5304.9	5608.2	5765.1	6052.4	6315.8	6898.5	7419.9	7396.0	7398.6
4160.9	40°	4283.3	4458.9	4770.1	5012.2	5254.3	5680.0	6260.0	6275.9	6270.6
3221.8	42.5°	3288.3	3458.5	3785.8	4049.2	4264.6	4528.0	5081.4	5100.0	5124.0
2508.8	45°	2567.3	2676.4	2915.8	3189.8	3418.6	3578.3	3998.6	4118.3	4121.0
1944.8	47.5°	1992.7	2117.7	2288.0	2551.3	2774.8	2889.2	3195.2	3357.4	3349.5
1492.5	50°	1564.3	1678.7	1817.1	2024.6	2266.7	2357.1	2583.3	2742.9	2734.9
1125.4	52.5°	1197.2	1343.5	1465.9	1625.5	1862.3	1939.4	2101.7	2285.3	2258.7
824.7	55°	907.2	1056.2	1170.6	1303.6	1519.1	1617.5	1729.3	1875.6	1880.9
638.5	57.5°	683.7	838.0	941.8	1077.5	1239.8	1348.8	1434.0	1590.9	1588.3
436.3	60°	489.5	622.5	747.6	888.6	1013.6	1138.7	1197.2	1346.2	1351.5
308.6	62.5°	353.8	478.9	598.6	721.0	832.7	955.1	1008.3	1125.4	1141.3
202.2	65°	247.4	335.2	473.6	566.7	691.7	782.2	851.3	952.4	971.1
119.7	67.5°	159.6	242.1	375.1	457.6	572.0	649.1	721.0	800.8	824.7
77.2	70°	95.8	183.6	279.3	367.1	470.9	540.1	609.2	678.4	691.7
37.2	72.5°	61.2	127.7	202.2	298.0	377.8	452.3	513.5	564.0	524.1
23.9	75°	34.6	87.8	159.6	234.1	305.9	377.8	428.3	454.9	364.5
16.0	77.5°	21.3	63.9	130.4	188.9	236.8	303.3	335.2	351.2	260.7
10.6	80°	13.3	47.9	109.1	154.3	154.3	223.5	260.7	274.0	188.9
8.0	82.5°	10.6	34.6	85.1	117.1	103.8	167.6	204.9	207.5	133.0
5.3	85°	8.0	26.6	53.2	77.2	71.8	117.1	119.7	133.0	87.8
5.3	87.5°	5.3	16.0	31.9	45.2	39.9	55.9	63.9	71.8	47.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
24744.5
24018.2
23616.5
23028.6
21927.2
20743.3
19370.5
17997.7
16486.6
15028.7
13560.1
12240.6
10926.3
9644.0
8454.8
7313.5
6177.5
5044.2
4051.8
3320.2
2734.9
2261.4
1880.9
1582.9
1338.2
1136.0
965.7
822.1
681.1
486.9
345.9
244.8
175.6
122.4
79.8
42.6
0.0

(END OF REPORT)