

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: P638702

Luminaire Tested: **EPH-VN-03-E-930-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638702
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-930-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (48) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16215.8 lumens
Efficiency: N/A
Efficacy: 69.9 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

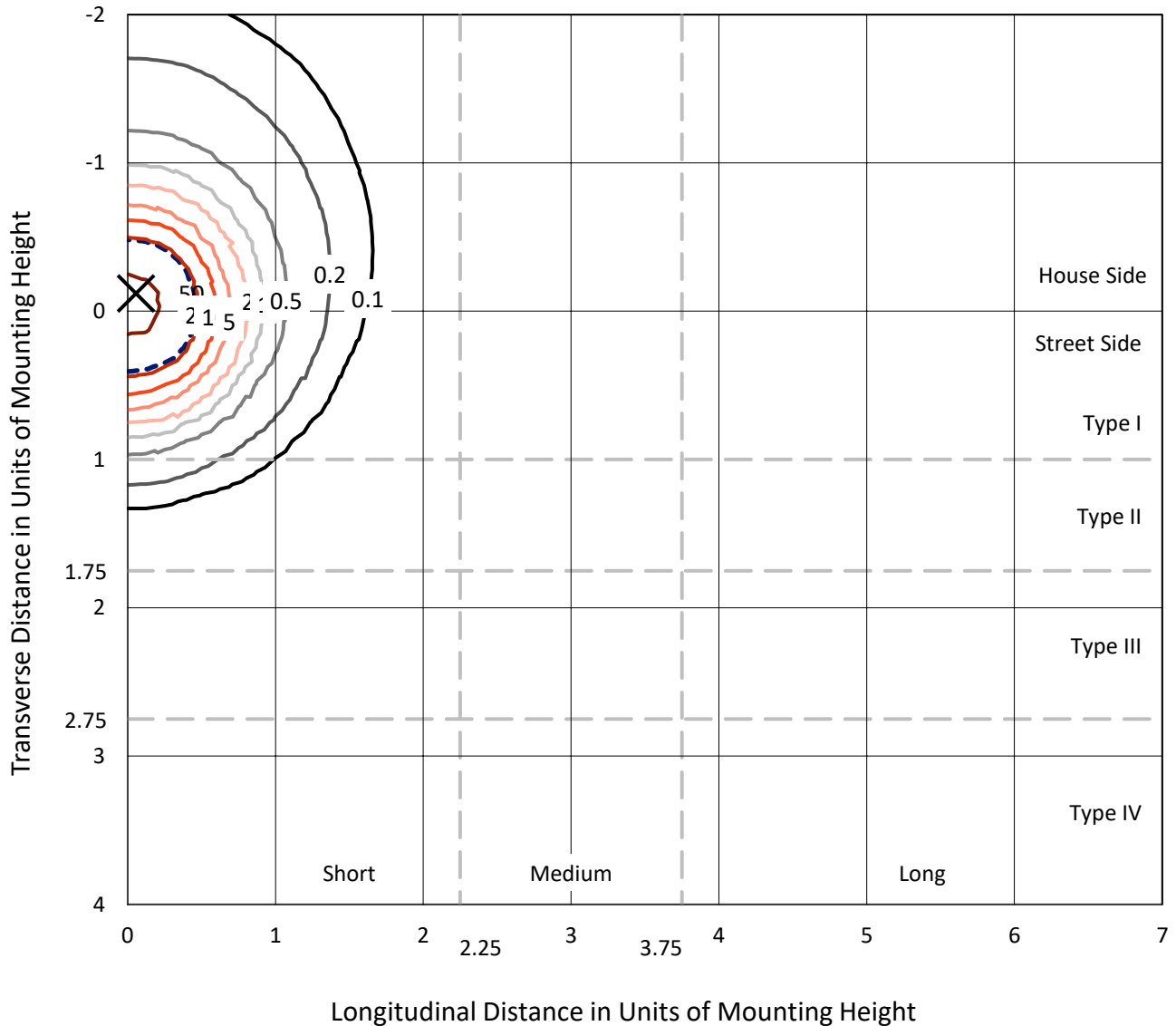
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

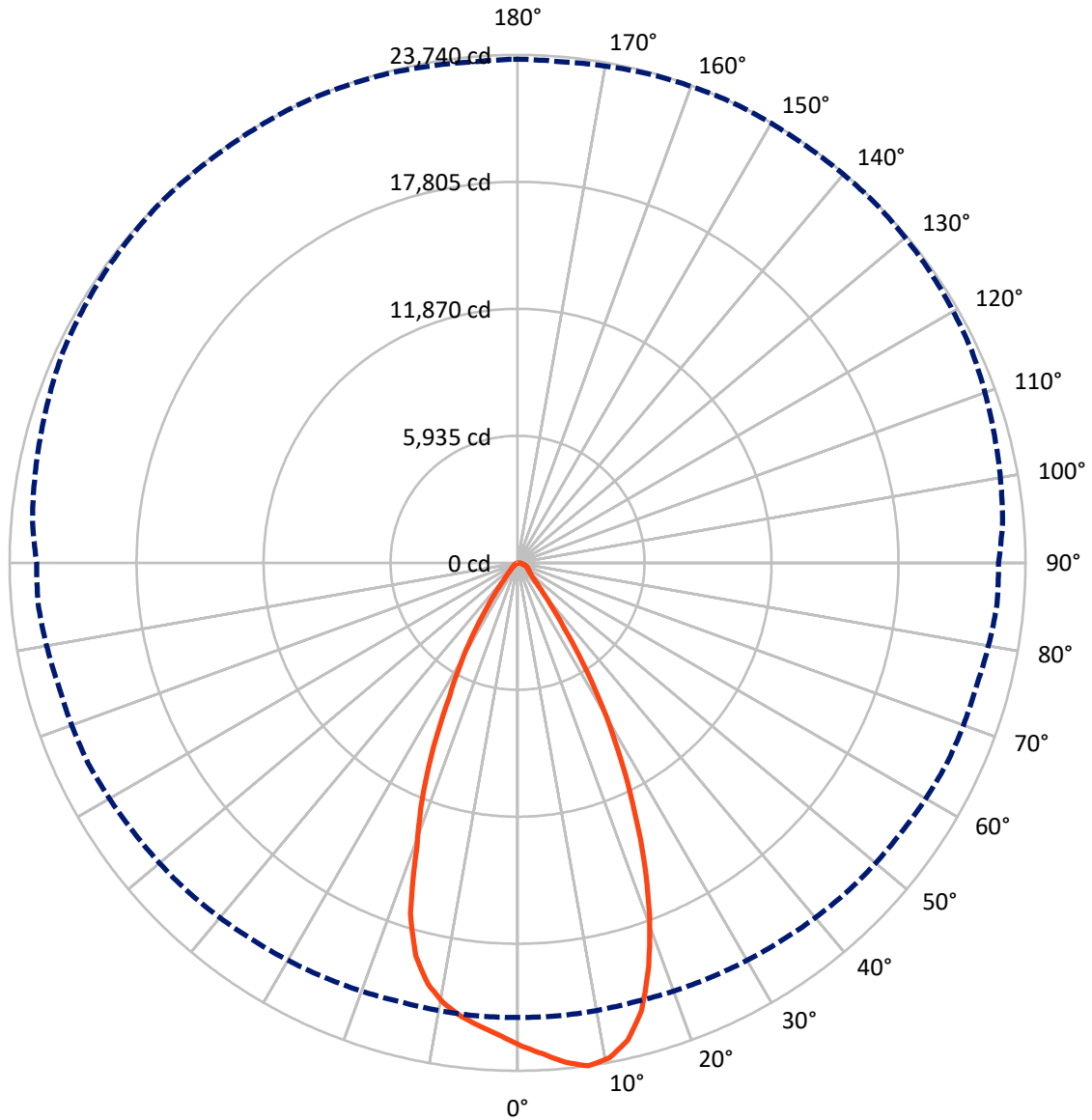
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 57.4 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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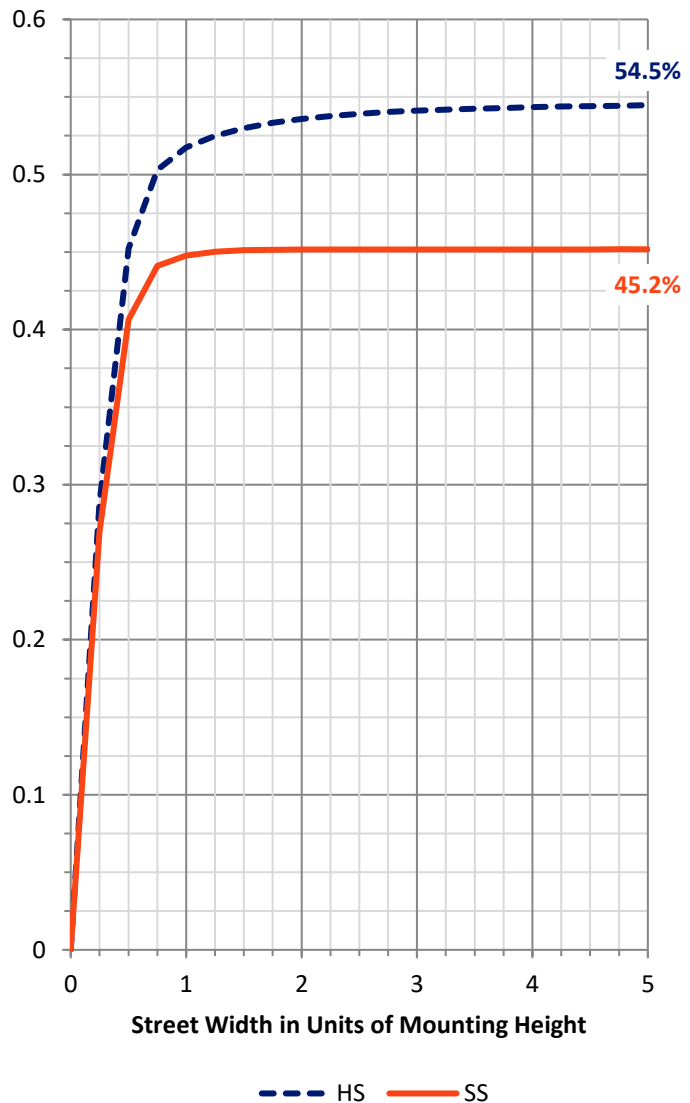
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8951.7	0.0	8951.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7264.1	0.0	7264.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	16215.8	0.0	16215.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2154.1	13.3
10°-20°	5585.6	34.4
20°-30°	5117.9	31.6
30°-40°	2067.6	12.8
40°-50°	606.6	3.7
50°-60°	339.1	2.1
60°-70°	206.0	1.3
70°-80°	104.7	0.6
80°-90°	34.2	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°	16215.8	100.0
0°-180°	16215.8	100.0

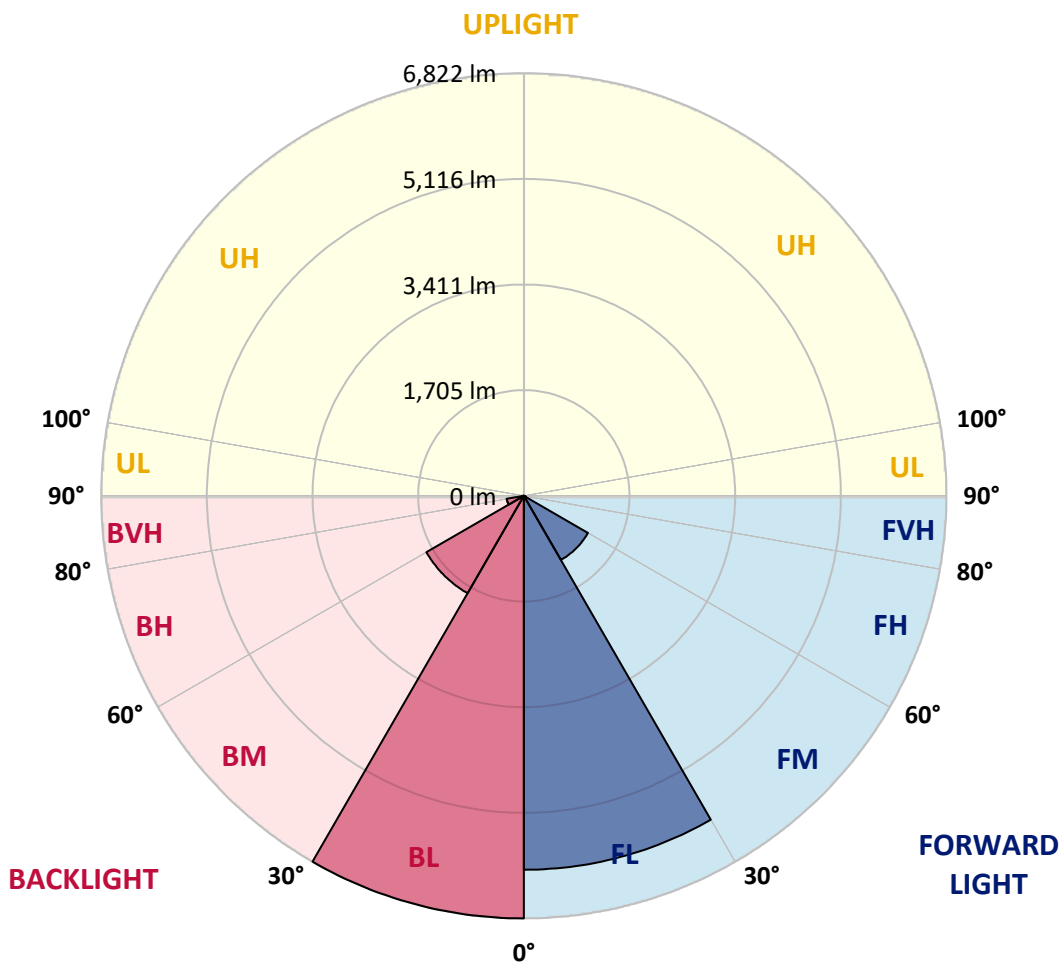


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6035.9	37.2			
FM (30°-60°)	1196.2	7.4			
FH (60°-80°)	29.0	0.2			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	6821.7	42.1	B5		
BM (30°-60°)	1817.1	11.2	B2/2500		
BH (60°-80°)	281.7	1.7	B1/500		G1/500
BVH (80°-90°)	31.3	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-G1
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	22589.9	22589.9	22589.9	22589.9	22589.9	22589.9	22589.9	22589.9	22589.9	22589.9
2.5°	22100.0	22174.8	22025.2	22124.3	22200.9	22384.2	22399.1	22462.7	22485.2	22651.6
5°	21681.1	21739.1	21617.5	21750.3	21858.7	22021.4	22146.7	22322.5	22419.7	22616.0
7.5°	21245.4	21258.5	21234.2	21374.4	21537.1	21761.5	21916.7	22146.7	22206.5	22487.0
10°	20718.1	20622.8	20669.5	20875.2	21118.3	21462.3	21568.9	21798.9	21905.5	22191.6
12.5°	19876.7	19925.3	19867.3	20129.1	20331.1	20721.9	20834.1	21065.9	21269.7	21522.2
15°	18691.2	18663.1	18780.9	18984.8	19203.5	19513.9	19695.3	19947.7	20102.9	20364.7
17.5°	16026.6	16122.0	16608.2	17118.6	17567.4	17930.2	18147.1	18356.5	18468.7	18752.9
20°	13840.8	13721.1	13786.5	14074.5	15351.6	15907.0	16135.1	16185.6	16232.3	16456.7
22.5°	11396.8	11357.6	11576.3	11899.8	12202.8	13483.6	13794.0	13676.2	13773.4	13984.7
25°	8463.0	8661.2	8855.7	9476.5	9869.2	10497.4	11086.4	11138.8	11174.3	11307.1
27.5°	6888.6	6819.4	6815.7	6989.6	7569.2	8092.8	8593.9	8709.8	8689.3	8816.4
30°	5415.1	5392.7	5314.2	5355.3	5297.3	5762.9	5998.5	6475.3	6449.2	6452.9
32.5°	3906.2	3822.0	3790.2	3851.9	3792.1	3749.1	3954.8	4493.3	4483.9	4521.3
35°	2363.5	2352.3	2378.5	2432.7	2313.0	2309.3	2352.3	2859.0	2920.7	2980.6
37.5°	1305.2	1293.9	1314.5	1514.6	1475.3	1439.8	1451.0	1718.4	1896.0	1940.9
40°	860.1	858.3	873.2	908.8	976.1	963.0	968.6	1088.3	1256.6	1295.8
42.5°	575.9	577.8	587.1	628.3	637.6	704.9	693.7	721.8	878.8	912.5
45°	460.0	458.1	463.7	445.0	456.2	525.4	532.9	534.8	669.4	690.0
47.5°	362.8	362.8	368.4	344.1	338.4	381.5	420.7	426.3	534.8	562.8
50°	254.3	254.3	282.3	271.1	284.2	297.3	340.3	345.9	437.5	467.5
52.5°	187.0	190.7	194.5	196.3	239.3	237.5	274.9	301.0	331.0	383.3
55°	142.1	145.8	136.5	145.8	177.6	198.2	205.7	243.1	263.7	321.6
57.5°	93.5	102.8	95.4	112.2	119.7	153.3	164.5	200.1	213.2	263.7
60°	13.1	15.0	24.3	78.5	84.1	101.0	127.2	158.9	172.0	215.0
62.5°	1.9	1.9	5.6	13.1	56.1	67.3	95.4	110.3	127.2	160.8
65°	0.0	0.0	1.9	3.7	11.2	39.3	48.6	59.8	87.9	115.9
67.5°	0.0	0.0	1.9	3.7	5.6	13.1	20.6	39.3	50.5	80.4
70°	0.0	0.0	1.9	3.7	5.6	7.5	11.2	15.0	29.9	46.7
72.5°	0.0	0.0	1.9	3.7	5.6	7.5	9.3	11.2	13.1	29.9
75°	0.0	0.0	1.9	3.7	5.6	9.3	11.2	11.2	11.2	13.1
77.5°	0.0	0.0	1.9	3.7	7.5	11.2	13.1	11.2	9.3	9.3
80°	0.0	0.0	1.9	5.6	9.3	13.1	15.0	11.2	7.5	5.6
82.5°	0.0	0.0	1.9	5.6	9.3	13.1	15.0	13.1	7.5	5.6
85°	0.0	0.0	1.9	5.6	7.5	9.3	15.0	13.1	7.5	3.7
87.5°	0.0	0.0	0.0	1.9	1.9	3.7	7.5	5.6	3.7	1.9
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°
22589.9	0°	22589.9	22589.9	22589.9	22589.9	22589.9	22589.9	22589.9	22589.9	22589.9
22647.8	2.5°	22816.1	22900.3	23048.0	23089.1	23216.3	23070.4	22990.0	22997.5	22823.6
22591.7	5°	22816.1	23008.7	23266.8	23390.2	23483.7	23476.2	23455.6	23403.3	23276.1
22479.5	7.5°	22756.3	23070.4	23425.7	23590.2	23702.4	23693.1	23739.8	23655.7	23500.5
22279.5	10°	22563.7	22836.7	23274.2	23408.9	23590.2	23594.0	23536.0	23552.8	23276.1
21548.3	12.5°	21957.8	22171.0	22554.3	22707.7	22928.3	22963.8	22900.3	22876.0	22614.2
20349.8	15°	20785.4	20908.9	21294.0	21447.4	21666.1	21636.2	21699.8	21673.6	21443.6
18730.5	17.5°	19070.8	19110.0	19513.9	19643.0	19848.6	19929.0	19833.7	19955.2	19757.0
16496.0	20°	16611.9	16823.2	17277.6	17475.8	17595.4	17739.4	17614.1	17750.6	17518.8
13784.7	22.5°	14117.5	14242.8	14654.1	14940.2	15162.8	15190.8	15144.1	15239.4	14927.1
11395.0	25°	11393.1	11600.7	11926.0	12300.0	12518.8	12653.4	12531.8	12593.6	12543.1
8837.0	27.5°	8986.6	9171.7	9416.7	9695.3	10024.4	10200.1	10102.9	10207.6	9960.8
6589.4	30°	6595.0	6688.5	6965.3	7260.7	7621.6	7834.7	7844.1	7950.7	7804.8
4616.7	32.5°	4650.4	4732.6	4902.8	5099.1	5443.2	5680.7	5643.3	5658.2	5568.5
3008.6	35°	3023.6	3133.9	3255.4	3348.9	3556.5	3818.3	3797.7	3779.0	3717.3
1978.3	37.5°	2021.3	2064.3	2131.6	2215.8	2350.4	2515.0	2569.2	2501.9	2475.7
1335.1	40°	1366.9	1441.7	1486.5	1550.1	1613.7	1752.1	1789.5	1776.4	1750.2
934.9	42.5°	970.5	1028.4	1084.5	1146.2	1179.9	1265.9	1338.8	1318.3	1307.0
710.5	45°	736.7	789.1	854.5	901.3	934.9	985.4	1054.6	1062.1	1045.3
570.3	47.5°	590.9	637.6	690.0	747.9	787.2	819.0	878.8	901.3	890.1
480.6	50°	501.1	536.7	587.1	645.1	688.1	716.2	768.5	792.8	785.3
402.0	52.5°	426.3	469.3	516.1	564.7	617.1	645.1	693.7	729.2	723.6
332.8	55°	353.4	409.5	458.1	506.7	566.6	594.6	637.6	684.4	675.0
282.3	57.5°	308.5	355.3	405.8	452.5	516.1	553.5	592.7	641.4	639.5
231.9	60°	258.0	304.8	360.9	400.2	467.5	519.8	555.4	605.8	609.6
175.8	62.5°	205.7	263.7	306.7	360.9	422.6	484.3	518.0	568.4	587.1
134.6	65°	153.3	216.9	265.5	319.7	377.7	446.9	476.8	527.3	546.0
97.2	67.5°	114.1	162.7	224.4	271.1	336.6	396.4	431.9	478.7	491.8
58.0	70°	86.0	125.3	187.0	228.1	295.4	344.1	379.6	415.1	431.9
39.3	72.5°	50.5	93.5	147.7	196.3	254.3	295.4	321.6	349.7	360.9
18.7	75°	35.5	71.1	115.9	162.7	205.7	239.3	263.7	288.0	299.2
9.3	77.5°	18.7	52.4	91.6	130.9	160.8	188.9	213.2	231.9	239.3
7.5	80°	11.2	37.4	74.8	102.8	123.4	147.7	172.0	185.1	183.2
5.6	82.5°	7.5	29.9	54.2	74.8	89.8	108.5	125.3	134.6	134.6
3.7	85°	5.6	20.6	37.4	58.0	59.8	74.8	78.5	87.9	89.8
3.7	87.5°	3.7	13.1	20.6	33.7	31.8	39.3	41.1	46.7	50.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
22589.9
22683.4
23317.2
23536.0
23195.7
22554.3
21516.6
19708.4
17500.1
14884.1
12511.3
10024.4
7831.0
5619.0
3663.1
2470.1
1753.9
1297.7
1043.4
884.4
783.5
719.9
675.0
637.6
609.6
585.3
544.1
491.8
428.2
357.1
295.4
237.5
181.4
132.8
87.9
48.6
0.0

(END OF REPORT)