

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: P638714

Luminaire Tested: **EPH-VN-03-E-940-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638714
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-940-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (48) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18308.6 lumens
Efficiency: N/A
Efficacy: 78.9 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

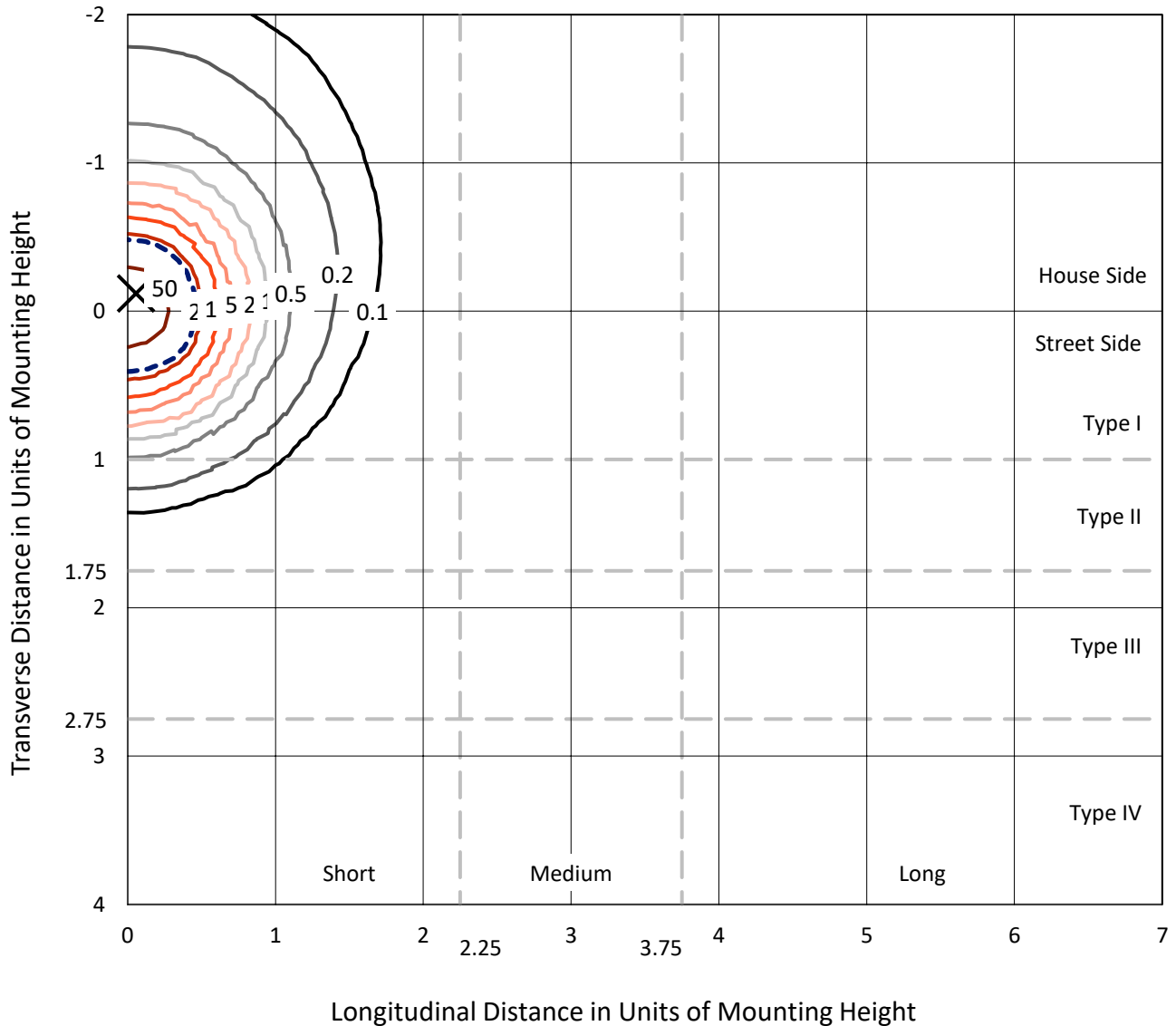
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

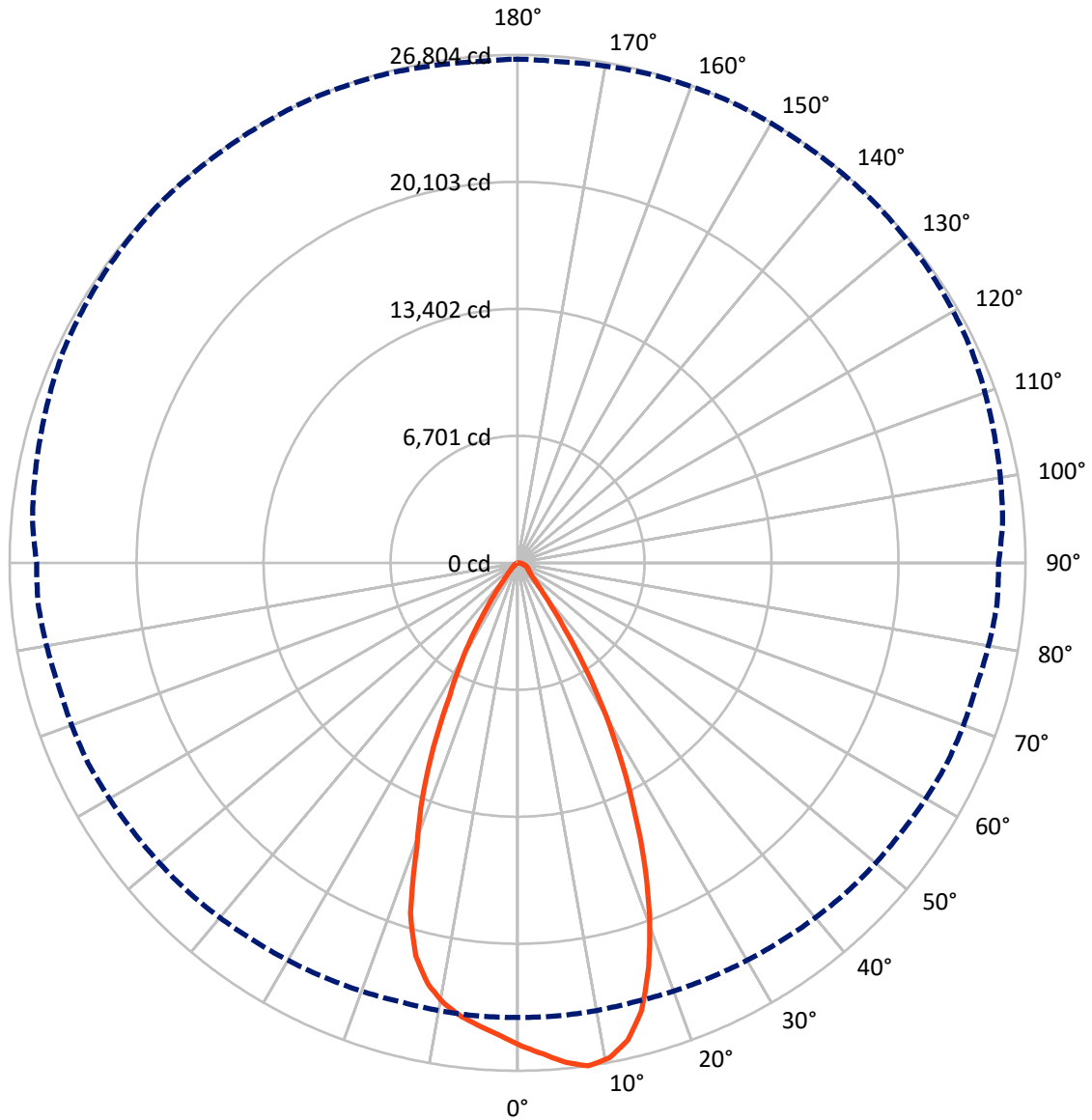
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 64.8 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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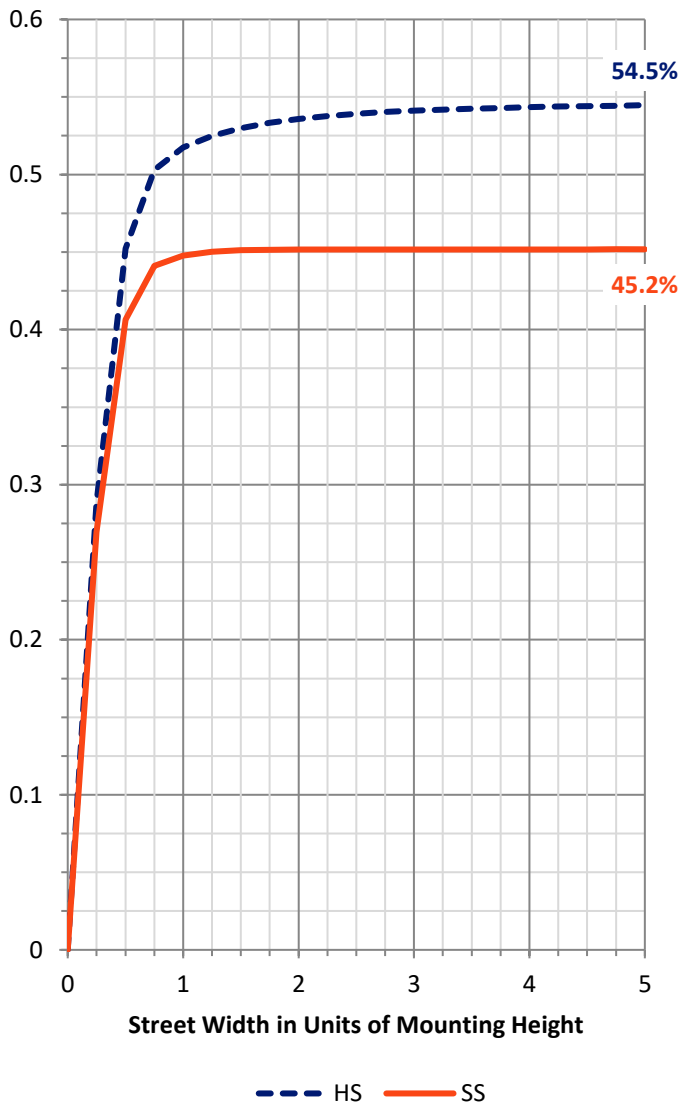
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10107.0	0.0	10107.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	8201.6	0.0	8201.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	18308.6	0.0	18308.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2432.1	13.3
10°-20°	6306.5	34.4
20°-30°	5778.5	31.6
30°-40°	2334.5	12.8
40°-50°	684.8	3.7
50°-60°	382.9	2.1
60°-70°	232.6	1.3
70°-80°	118.2	0.6
80°-90°	38.6	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°	18308.6	100.0
0°-180°	18308.6	100.0

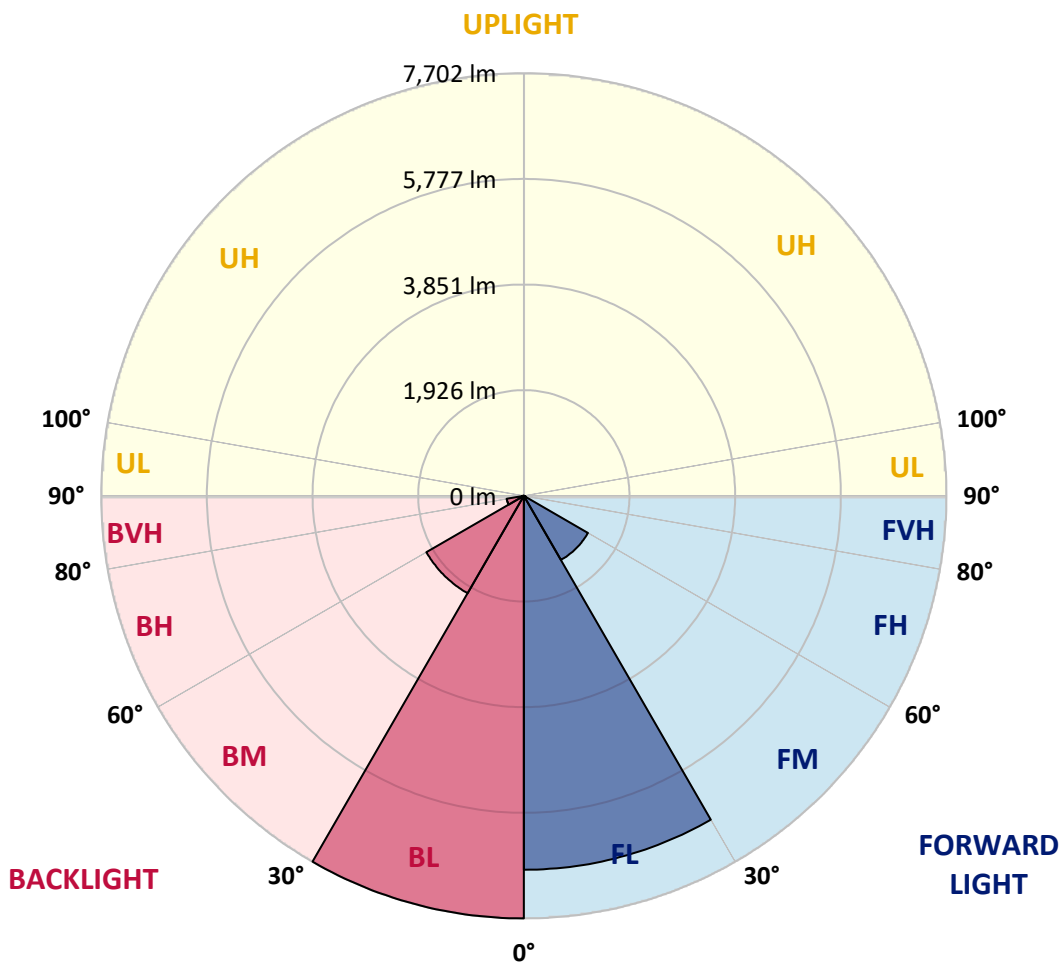


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6814.9	37.2			
FM (30°-60°)	1350.6	7.4			
FH (60°-80°)	32.7	0.2			G0/660
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	7702.1	42.1	B5		
BM (30°-60°)	2051.6	11.2	B2/2500		
BH (60°-80°)	318.0	1.7	B1/500		G1/500
BVH (80°-90°)	35.3	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°	25505.4	25505.4	25505.4	25505.4	25505.4	25505.4	25505.4	25505.4	25505.4	25505.4
2.5°	24952.2	25036.7	24867.8	24979.7	25066.2	25273.1	25290.0	25361.8	25387.1	25575.0
5°	24479.3	24544.8	24407.5	24557.4	24679.9	24863.6	25005.0	25203.5	25313.2	25534.9
7.5°	23987.4	24002.2	23974.7	24133.1	24316.8	24570.1	24745.3	25005.0	25072.6	25389.3
10°	23392.1	23284.4	23337.2	23569.4	23843.9	24232.3	24352.7	24612.3	24732.7	25055.7
12.5°	22442.0	22496.9	22431.5	22727.0	22955.0	23396.3	23523.0	23784.7	24014.9	24299.9
15°	21103.5	21071.9	21204.9	21435.0	21682.0	22032.4	22237.2	22522.2	22697.5	22993.0
17.5°	18095.1	18202.7	18751.6	19328.0	19834.7	20244.3	20489.2	20725.6	20852.3	21173.2
20°	15627.1	15492.0	15565.9	15891.0	17332.9	17960.0	18217.5	18274.5	18327.3	18580.6
22.5°	12867.7	12823.4	13070.4	13435.7	13777.7	15223.8	15574.3	15441.3	15551.1	15789.6
25°	9555.3	9779.1	9998.6	10699.5	11142.9	11852.3	12517.3	12576.4	12616.5	12766.4
27.5°	7777.6	7699.5	7695.3	7891.7	8546.1	9137.3	9703.1	9834.0	9810.7	9954.3
30°	6114.0	6088.7	6000.0	6046.5	5981.0	6506.7	6772.7	7311.1	7281.5	7285.7
32.5°	4410.3	4315.3	4279.4	4349.1	4281.5	4232.9	4465.2	5073.2	5062.6	5104.9
35°	2668.6	2655.9	2685.4	2746.7	2611.6	2607.3	2655.9	3228.0	3297.7	3365.2
37.5°	1473.6	1460.9	1484.2	1710.1	1665.7	1625.6	1638.3	1940.2	2140.8	2191.4
40°	971.2	969.0	985.9	1026.0	1102.0	1087.3	1093.6	1228.7	1418.7	1463.1
42.5°	650.2	652.4	662.9	709.4	719.9	795.9	783.3	814.9	992.3	1030.3
45°	519.4	517.2	523.6	502.5	515.1	593.2	601.7	603.8	755.8	779.0
47.5°	409.6	409.6	415.9	388.5	382.1	430.7	475.0	481.4	603.8	635.5
50°	287.1	287.1	318.8	306.1	320.9	335.7	384.2	390.6	494.0	527.8
52.5°	211.1	215.3	219.6	221.7	270.2	268.1	310.3	339.9	373.7	432.8
55°	160.5	164.7	154.1	164.7	200.6	223.8	232.2	274.5	297.7	363.1
57.5°	105.6	116.1	107.7	126.7	135.1	173.1	185.8	225.9	240.7	297.7
60°	14.8	16.9	27.4	88.7	95.0	114.0	143.6	179.5	194.2	242.8
62.5°	2.1	2.1	6.3	14.8	63.3	76.0	107.7	124.6	143.6	181.6
65°	0.0	0.0	2.1	4.2	12.7	44.3	54.9	67.6	99.2	130.9
67.5°	0.0	0.0	2.1	4.2	6.3	14.8	23.2	44.3	57.0	90.8
70°	0.0	0.0	2.1	4.2	6.3	8.4	12.7	16.9	33.8	52.8
72.5°	0.0	0.0	2.1	4.2	6.3	8.4	10.6	12.7	14.8	33.8
75°	0.0	0.0	2.1	4.2	6.3	10.6	12.7	12.7	12.7	14.8
77.5°	0.0	0.0	2.1	4.2	8.4	12.7	14.8	12.7	10.6	10.6
80°	0.0	0.0	2.1	6.3	10.6	14.8	16.9	12.7	8.4	6.3
82.5°	0.0	0.0	2.1	6.3	10.6	14.8	16.9	14.8	8.4	6.3
85°	0.0	0.0	2.1	6.3	8.4	10.6	16.9	14.8	8.4	4.2
87.5°	0.0	0.0	0.0	2.1	2.1	4.2	8.4	6.3	4.2	2.1
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°
25505.4	0°	25505.4	25505.4	25505.4	25505.4	25505.4	25505.4	25505.4	25505.4	25505.4
25570.8	2.5°	25760.8	25855.8	26022.6	26069.1	26212.6	26047.9	25957.2	25965.6	25769.3
25507.5	5°	25760.8	25978.3	26269.6	26409.0	26514.5	26506.1	26482.9	26423.7	26280.2
25380.8	7.5°	25693.3	26047.9	26449.1	26634.9	26761.5	26751.0	26803.8	26708.7	26533.5
25154.9	10°	25475.8	25784.0	26278.1	26430.1	26634.9	26639.1	26573.6	26592.6	26280.2
24329.4	12.5°	24791.8	25032.5	25465.3	25638.4	25887.5	25927.6	25855.8	25828.4	25532.8
22976.2	15°	23468.1	23607.4	24042.3	24215.4	24462.4	24428.7	24500.4	24470.9	24211.2
21147.9	17.5°	21532.1	21576.4	22032.4	22178.1	22410.4	22501.1	22393.5	22530.7	22306.9
18625.0	20°	18755.9	18994.4	19507.5	19731.2	19866.4	20028.9	19887.5	20041.6	19779.8
15563.7	22.5°	15939.5	16081.0	16545.4	16868.5	17119.7	17151.4	17098.6	17206.3	16853.7
12865.6	25°	12863.5	13097.9	13465.2	13887.5	14134.5	14286.5	14149.2	14218.9	14161.9
9977.5	27.5°	10146.4	10355.4	10632.0	10946.6	11318.1	11516.6	11406.8	11525.0	11246.3
7439.9	30°	7446.2	7551.8	7864.2	8197.8	8605.2	8845.9	8856.5	8976.8	8812.1
5212.5	32.5°	5250.5	5343.4	5535.6	5757.2	6145.7	6413.8	6371.6	6388.5	6287.1
3396.9	35°	3413.8	3538.4	3675.6	3781.2	4015.5	4311.1	4287.8	4266.7	4197.1
2233.6	37.5°	2282.2	2330.8	2406.8	2501.8	2653.8	2839.6	2900.8	2824.8	2795.2
1507.4	40°	1543.3	1627.7	1678.4	1750.2	1822.0	1978.2	2020.4	2005.6	1976.1
1055.6	42.5°	1095.7	1161.2	1224.5	1294.2	1332.2	1429.3	1511.6	1488.4	1475.7
802.3	45°	831.8	890.9	964.8	1017.6	1055.6	1112.6	1190.7	1199.2	1180.2
643.9	47.5°	667.1	719.9	779.0	844.5	888.8	924.7	992.3	1017.6	1004.9
542.6	50°	565.8	605.9	662.9	728.4	776.9	808.6	867.7	895.1	886.7
453.9	52.5°	481.4	529.9	582.7	637.6	696.7	728.4	783.3	823.4	817.0
375.8	55°	399.0	462.4	517.2	572.1	639.7	671.4	719.9	772.7	762.1
318.8	57.5°	348.3	401.1	458.1	510.9	582.7	624.9	669.2	724.1	722.0
261.8	60°	291.3	344.1	407.5	451.8	527.8	586.9	627.0	684.0	688.3
198.5	62.5°	232.2	297.7	346.2	407.5	477.1	546.8	584.8	641.8	662.9
152.0	65°	173.1	244.9	299.8	361.0	426.5	504.6	538.4	595.4	616.5
109.8	67.5°	128.8	183.7	253.3	306.1	380.0	447.6	487.7	540.5	555.2
65.4	70°	97.1	141.5	211.1	257.6	333.6	388.5	428.6	468.7	487.7
44.3	72.5°	57.0	105.6	166.8	221.7	287.1	333.6	363.1	394.8	407.5
21.1	75°	40.1	80.2	130.9	183.7	232.2	270.2	297.7	325.1	337.8
10.6	77.5°	21.1	59.1	103.4	147.8	181.6	213.2	240.7	261.8	270.2
8.4	80°	12.7	42.2	84.4	116.1	139.3	166.8	194.2	209.0	206.9
6.3	82.5°	8.4	33.8	61.2	84.4	101.3	122.4	141.5	152.0	152.0
4.2	85°	6.3	23.2	42.2	65.4	67.6	84.4	88.7	99.2	101.3
4.2	87.5°	4.2	14.8	23.2	38.0	35.9	44.3	46.4	52.8	57.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
25505.4
25610.9
26326.6
26573.6
26189.4
25465.3
24293.5
22252.0
19758.7
16805.1
14126.0
11318.1
8841.7
6344.1
4135.8
2788.9
1980.3
1465.2
1178.0
998.6
884.6
812.8
762.1
719.9
688.3
660.8
614.4
555.2
483.5
403.2
333.6
268.1
204.8
149.9
99.2
54.9
0.0

(END OF REPORT)