

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: P638873

Luminaire Tested: **EPH-VN-07-E-935-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638873
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-07-E-935-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27626.9 lumens
Efficiency: N/A
Efficacy: 51.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

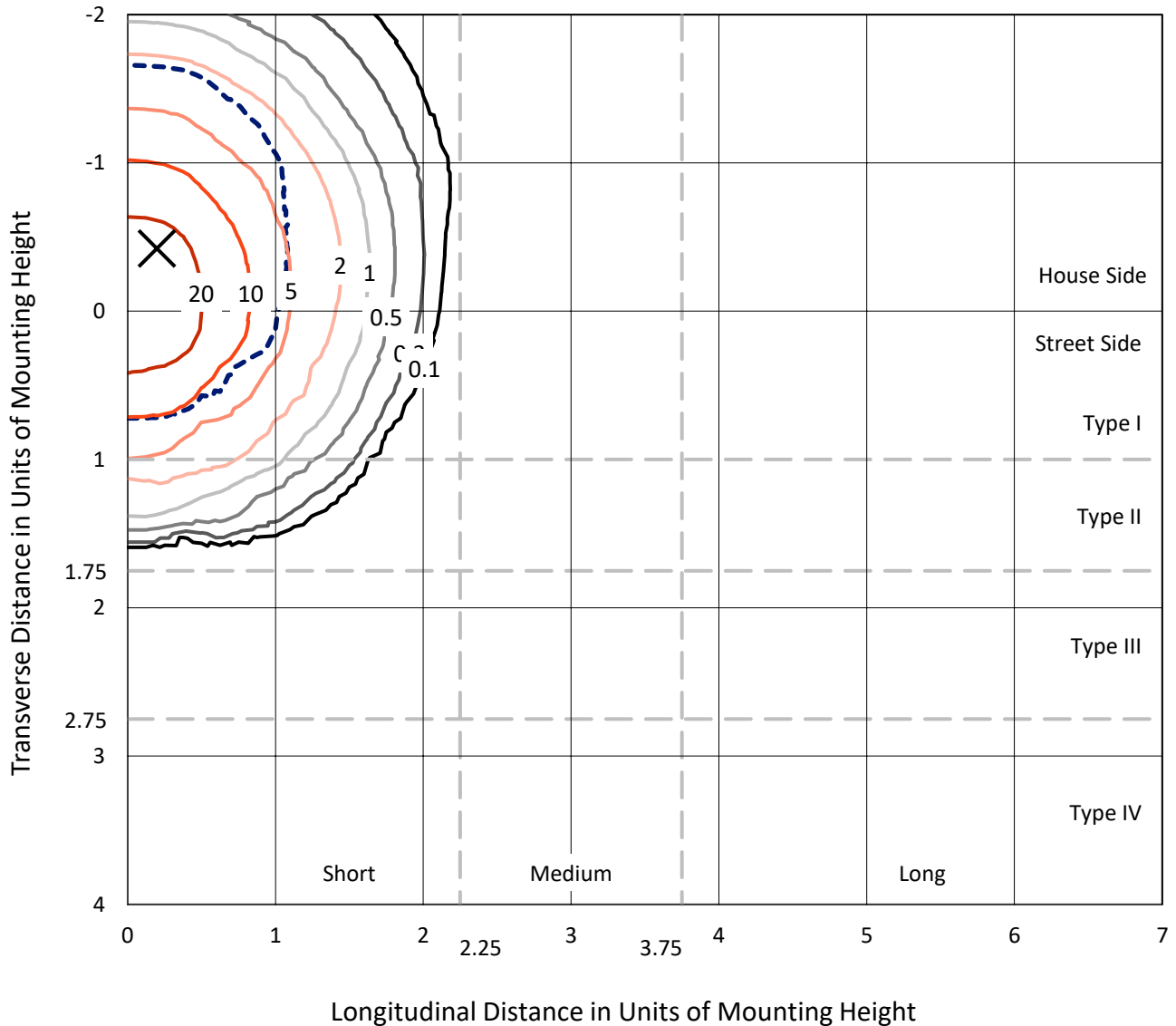
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

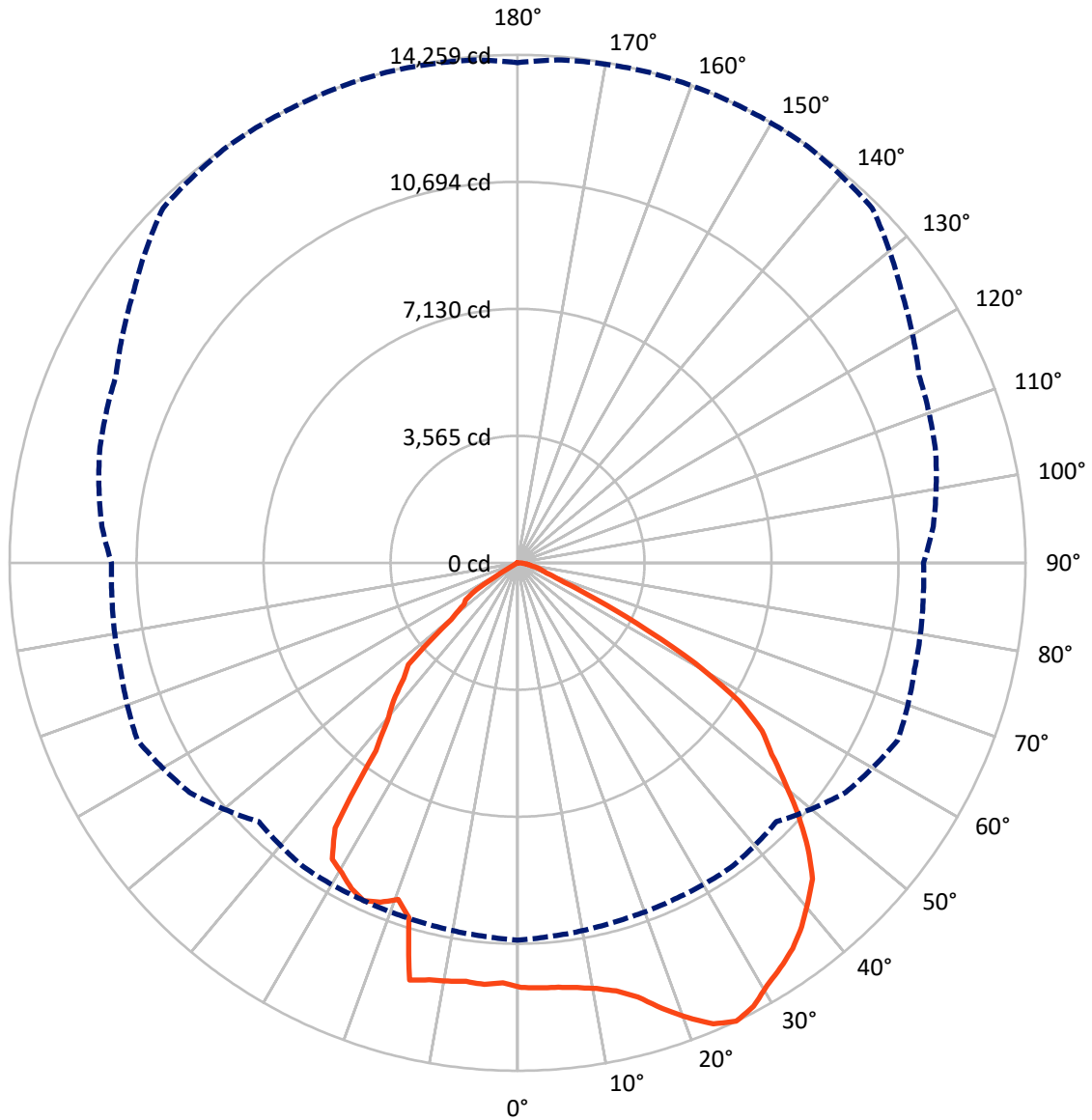
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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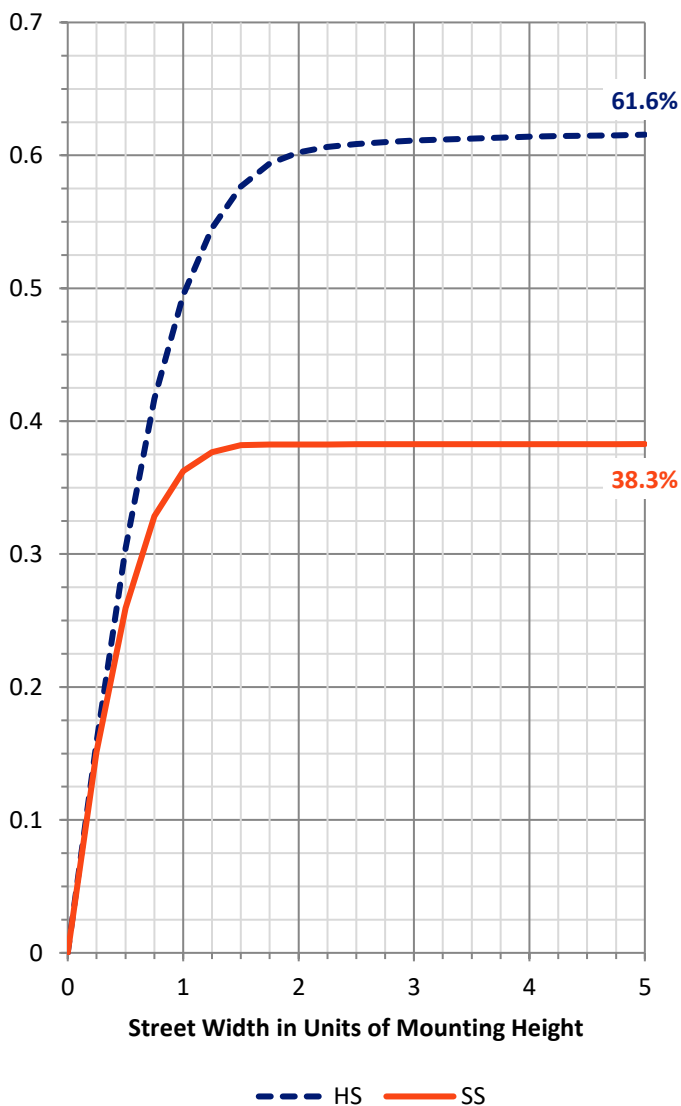
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17103.9	0.0	17103.9
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	10523.0	0.0	10523.0
	% Fixture	38.1	0.0	38.1
Total	Lumens	27626.9	0.0	27626.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1143.6	4.1
10°-20°	3492.0	12.6
20°-30°	5520.6	20.0
30°-40°	6236.0	22.6
40°-50°	5840.1	21.1
50°-60°	4026.4	14.6
60°-70°	1081.8	3.9
70°-80°	225.4	0.8
80°-90°	61.0	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°	27626.9	100.0
0°-180°	27626.9	100.0

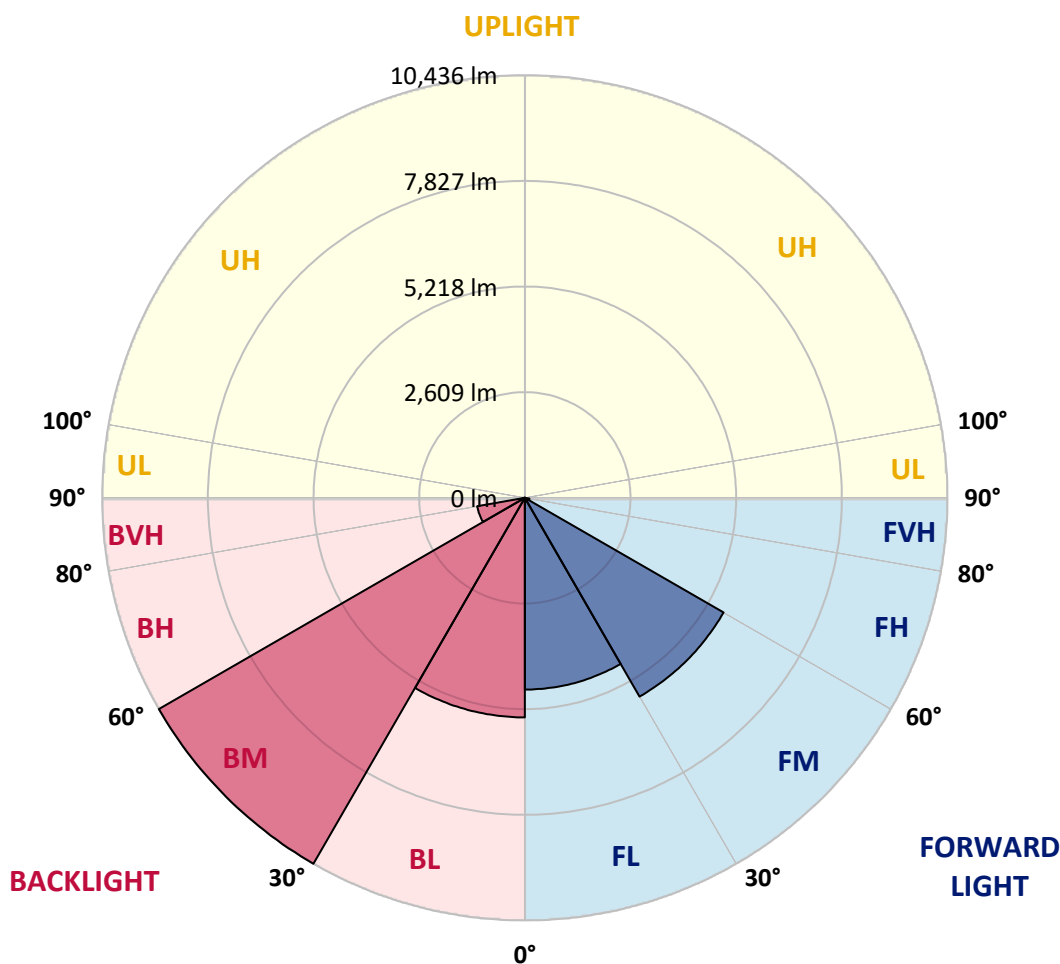


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4734.4	17.1			
FM (30°-60°)	5666.9	20.5			
FH (60°-80°)	113.6	0.4			G0/660
FVH (80°-90°)	8.2	0.0			G0/10
BL (0°-30°)	5421.8	19.6	B5		
BM (30°-60°)	10435.6	37.8	B5		
BH (60°-80°)	1193.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	52.8	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-G3
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11920.5	11920.5	11920.5	11920.5	11920.5	11920.5	11920.5	11920.5	11920.5	11920.5
2.5°	11973.3	11896.2	11823.1	11798.7	11900.2	12009.8	11940.8	11944.9	11920.5	11965.2
5°	12062.6	11957.1	11908.3	11871.8	11888.0	12001.7	11904.3	11940.8	11900.2	11953.0
7.5°	12030.1	11957.1	11908.3	11839.3	11892.1	12026.1	11932.7	11936.8	11916.5	11965.2
10°	12009.8	11957.1	11896.2	11904.3	11965.2	12078.9	12005.8	12046.4	12018.0	12046.4
12.5°	12058.6	12001.7	11969.2	11969.2	12022.0	12151.9	12115.4	12151.9	12139.8	12164.1
15°	11599.8	11652.5	11961.1	12099.2	12204.7	12334.6	12318.4	12354.9	12363.1	12399.6
17.5°	9784.9	9732.1	9707.7	10418.3	12306.2	12708.2	12696.0	12691.9	12651.3	12622.9
20°	10024.4	10004.1	9975.7	10028.5	10239.6	12903.1	12984.3	12484.9	12338.7	12326.5
22.5°	10406.1	10373.6	10268.0	10272.1	10337.1	11218.1	12582.3	12127.6	12078.9	12050.4
25°	10592.9	10527.9	10442.6	10418.3	10438.6	10276.2	11238.4	11778.4	11538.9	11429.2
27.5°	10264.0	10268.0	10199.0	10264.0	10186.8	9456.0	9045.9	11096.3	11088.2	11039.5
30°	10016.3	10004.1	9922.9	10004.1	9472.3	8656.2	8481.6	10349.2	10264.0	10199.0
32.5°	9257.1	9265.2	9500.7	9817.4	8944.4	8298.9	7771.1	9244.9	10052.9	10016.3
35°	6622.1	6638.3	7474.7	9037.8	8144.6	7588.4	7547.8	7990.3	9719.9	9736.2
37.5°	6374.4	6374.4	6354.1	6609.9	7515.3	7300.1	7381.3	7336.6	8903.8	8944.4
40°	6195.7	6159.2	6130.8	5728.8	5225.4	7097.1	7153.9	6950.9	8416.6	8424.8
42.5°	5980.6	5940.0	5948.1	5205.1	4677.3	6593.6	6435.3	6163.3	7604.6	7612.7
45°	5586.7	5655.7	5704.5	4555.5	4514.9	4709.7	5935.9	5765.4	7056.5	7206.7
47.5°	2842.1	2903.0	4454.0	4190.0	4283.4	4186.0	5014.2	5018.3	5870.9	6370.3
50°	2578.2	2561.9	2566.0	2444.2	3954.6	3386.1	3625.7	4600.1	4701.6	5416.2
52.5°	2403.6	2399.5	2151.9	1912.3	2484.8	2980.1	2631.0	3329.3	3495.8	4587.9
55°	1778.3	1908.3	1697.1	1798.6	1555.0	2387.4	2375.2	3004.5	3061.3	3678.5
57.5°	16.2	20.3	48.7	1368.3	1075.9	1193.7	1640.3	2050.4	2151.9	2866.4
60°	4.1	8.1	20.3	40.6	698.3	734.9	1096.2	1185.6	1335.8	1709.3
62.5°	0.0	0.0	8.1	20.3	36.5	300.4	349.2	381.7	588.7	872.9
65°	0.0	0.0	4.1	12.2	20.3	48.7	85.3	178.6	255.8	316.7
67.5°	0.0	0.0	4.1	8.1	16.2	24.4	48.7	69.0	109.6	186.8
70°	0.0	0.0	4.1	8.1	12.2	20.3	32.5	48.7	65.0	93.4
72.5°	0.0	0.0	4.1	8.1	8.1	24.4	24.4	36.5	48.7	60.9
75°	0.0	0.0	4.1	4.1	8.1	16.2	24.4	28.4	32.5	48.7
77.5°	0.0	0.0	4.1	8.1	12.2	16.2	20.3	32.5	28.4	28.4
80°	0.0	0.0	4.1	12.2	12.2	20.3	24.4	32.5	20.3	20.3
82.5°	0.0	0.0	4.1	16.2	12.2	40.6	40.6	44.7	16.2	16.2
85°	0.0	0.0	12.2	8.1	24.4	40.6	36.5	24.4	20.3	12.2
87.5°	0.0	0.0	4.1	4.1	8.1	12.2	28.4	24.4	8.1	8.1
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°
11920.5	0°	11920.5	11920.5	11920.5	11920.5	11920.5	11920.5	11920.5	11920.5	11920.5
11847.4	2.5°	12009.8	11957.1	12066.7	12054.5	12001.7	11977.4	11948.9	11924.6	11745.9
11855.6	5°	12013.9	11932.7	12066.7	12042.3	12034.2	11993.6	11969.2	12005.8	11843.4
11888.0	7.5°	12013.9	11932.7	12078.9	12087.0	12074.8	12042.3	12038.3	12062.6	11928.6
11944.9	10°	12095.1	12062.6	12184.4	12196.6	12180.4	12172.2	12151.9	12135.7	11993.6
12139.8	12.5°	12265.6	12200.7	12338.7	12375.2	12363.1	12383.4	12334.6	12359.0	12212.8
12338.7	15°	12472.7	12476.8	12582.3	12663.5	12655.4	12720.4	12647.3	12712.2	12606.7
12566.1	17.5°	12789.4	12834.0	12984.3	13106.1	13150.7	13199.5	13150.7	13171.0	13020.8
12314.3	20°	12456.5	12622.9	13345.6	13568.9	13662.3	13707.0	13625.8	13650.1	13499.9
12005.8	22.5°	12156.0	12371.2	13012.7	13711.0	13999.3	14088.6	14060.2	14056.1	13999.3
11396.8	25°	11713.4	12147.9	12436.2	13175.1	14080.5	14242.9	14259.1	14255.1	14169.8
11023.2	27.5°	11169.4	11266.8	12013.9	12464.6	13512.1	14129.2	14104.9	13987.1	13873.4
10247.7	30°	10475.1	10917.7	11254.7	11973.3	12777.2	13780.1	13780.1	13690.7	13573.0
9971.7	32.5°	10121.9	10694.4	11007.0	11266.8	11953.0	13390.3	13552.7	13459.3	13365.9
9756.5	35°	9935.1	10020.4	10751.2	10986.7	11567.3	12639.2	13296.9	13203.5	13134.5
9184.0	37.5°	9525.0	9724.0	10065.0	10694.4	10873.0	12026.1	12955.8	12907.1	12825.9
8441.0	40°	8611.5	9143.4	9667.1	10264.0	10450.8	11238.4	12541.7	12562.0	12452.4
7649.3	42.5°	8071.5	8432.9	9253.0	9655.0	10158.4	10730.9	12139.8	12172.2	12095.1
7247.3	45°	7438.1	7840.1	8416.6	9147.5	9833.6	10032.6	11429.2	11770.3	11705.3
6447.5	47.5°	6857.5	7182.4	7888.8	8627.8	9387.0	9358.6	10613.2	11254.7	11165.3
5834.4	50°	6033.3	6601.8	6934.7	7612.7	8745.5	8822.6	9744.3	10649.7	10576.6
4957.4	52.5°	5087.3	5801.9	6439.4	7060.6	8095.9	8278.6	8936.3	10032.6	9983.8
3788.1	55°	4445.8	4965.5	5684.2	6183.6	7308.2	7795.4	8331.4	9443.8	9419.5
3114.1	57.5°	3162.8	4165.7	4758.5	5456.8	6049.6	6930.6	7328.5	8246.1	8018.7
1725.6	60°	2143.7	2614.7	3337.4	4088.5	4486.4	5367.5	5737.0	6471.8	6410.9
1031.3	62.5°	1132.8	1567.2	2082.8	2460.4	2748.7	3605.4	3759.7	4551.4	4531.1
414.1	65°	499.4	661.8	1128.7	1323.6	1620.0	2017.9	2151.9	2436.1	2367.1
203.0	67.5°	259.8	393.8	637.4	783.6	986.6	1136.8	1246.5	1335.8	1392.6
134.0	70°	158.3	288.3	393.8	544.1	678.0	799.8	885.1	1006.9	1080.0
69.0	72.5°	117.7	182.7	272.0	418.2	491.3	633.4	718.6	808.0	872.9
56.8	75°	65.0	121.8	219.2	328.9	393.8	515.6	592.8	653.7	674.0
32.5	77.5°	40.6	93.4	182.7	255.8	308.6	418.2	397.9	454.7	503.5
24.4	80°	28.4	69.0	142.1	211.1	215.2	268.0	316.7	365.4	397.9
16.2	82.5°	20.3	56.8	105.6	162.4	142.1	207.1	247.7	284.2	207.1
12.2	85°	16.2	40.6	52.8	97.4	81.2	146.2	125.9	121.8	81.2
8.1	87.5°	12.2	20.3	36.5	44.7	32.5	32.5	40.6	48.7	40.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11920.5
11624.1
11705.3
11774.4
11875.9
12082.9
12432.1
12890.9
13394.3
13816.6
14039.9
13784.1
13528.3
13288.8
13037.0
12744.7
12428.0
12087.0
11713.4
11230.3
10588.8
10016.3
9447.9
7994.4
6415.0
4535.2
2338.6
1392.6
1084.1
885.1
661.8
511.6
402.0
150.2
81.2
40.6
0.0

(END OF REPORT)