

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: P638825

Luminaire Tested: **EPH-VN-07-E-940-U-77-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638825
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-940-U-77-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens and Visor
Light Source: (112) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31376.4 lumens
Efficiency: N/A
Efficacy: 58.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

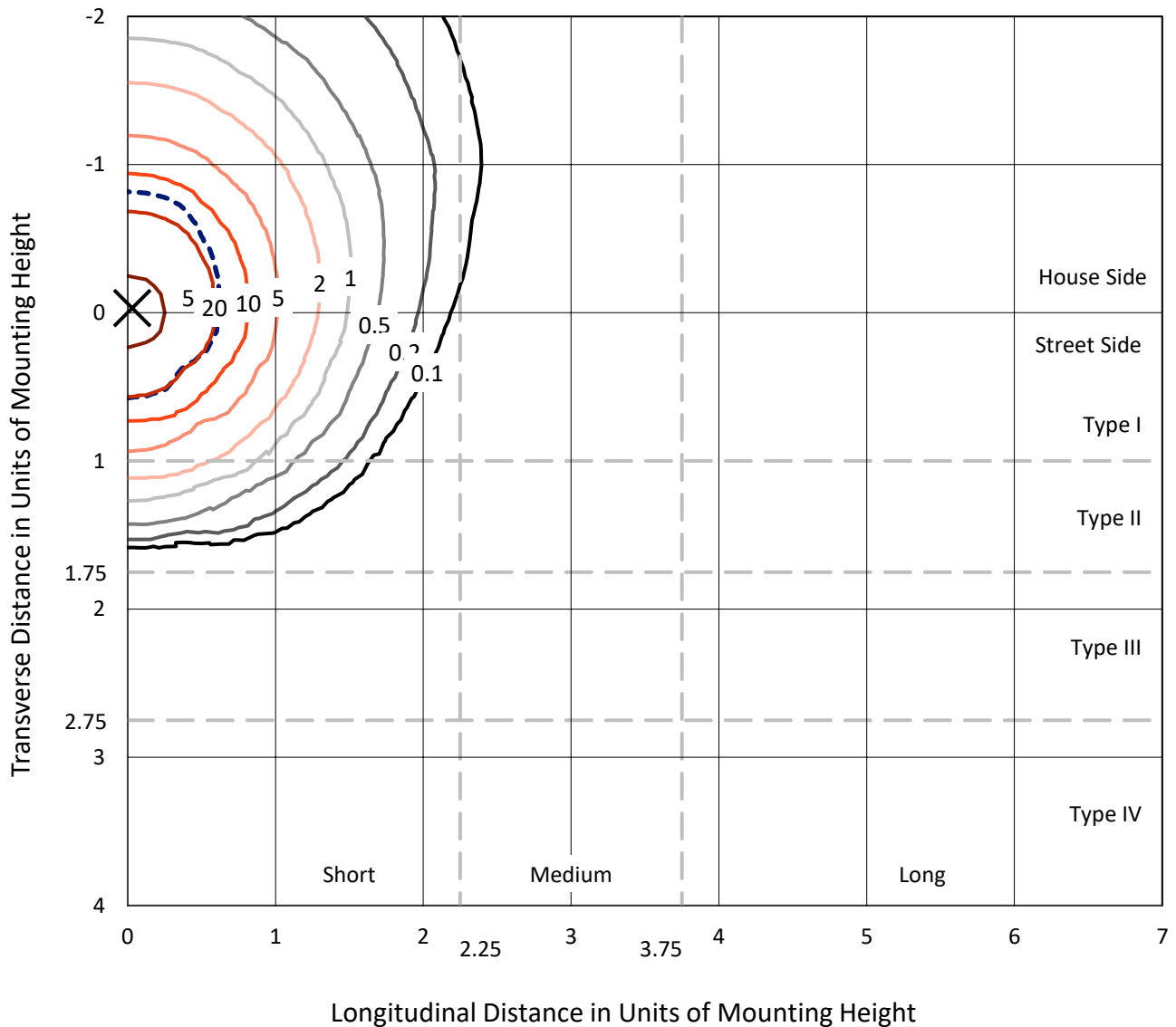
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

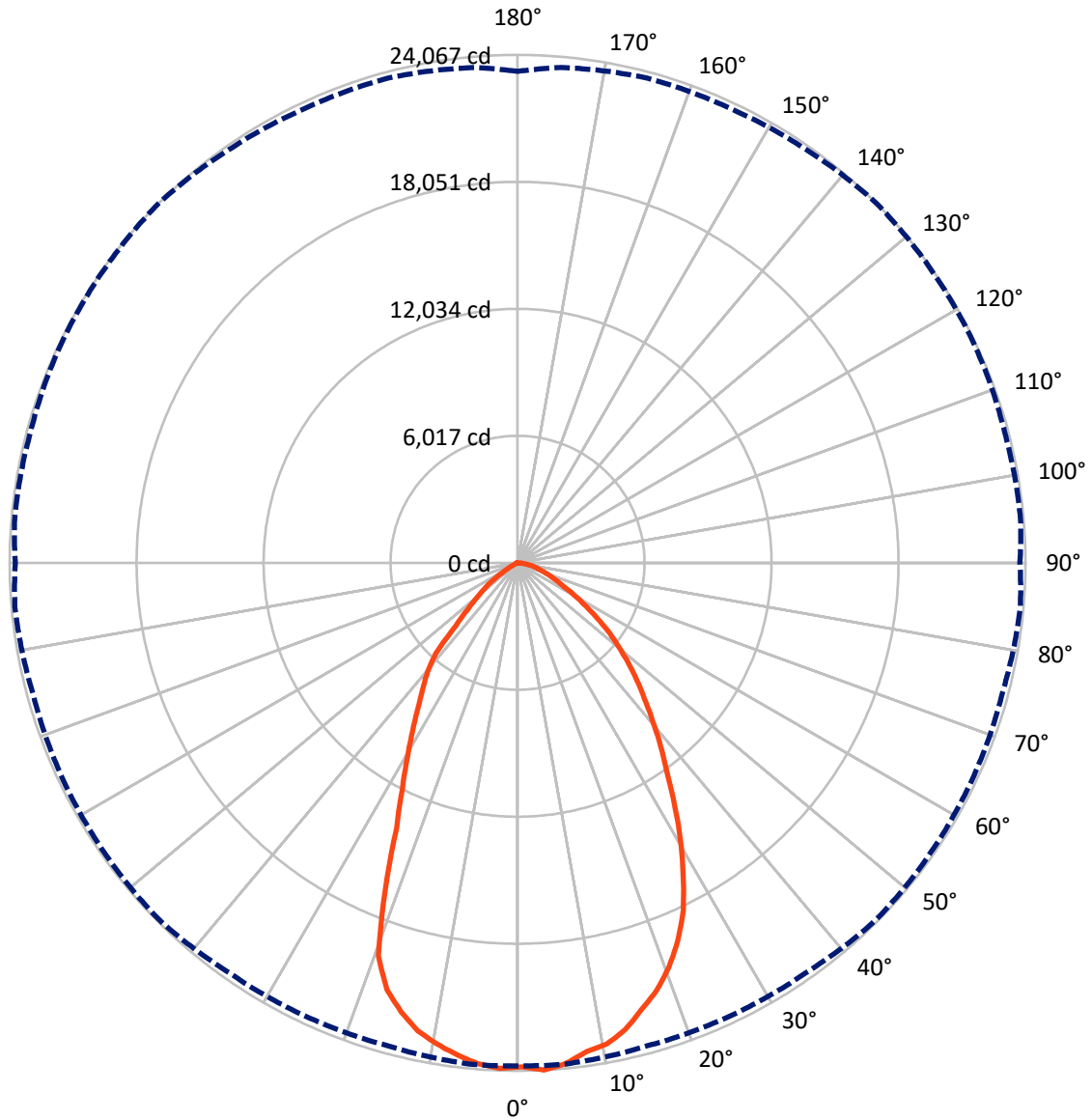
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 59.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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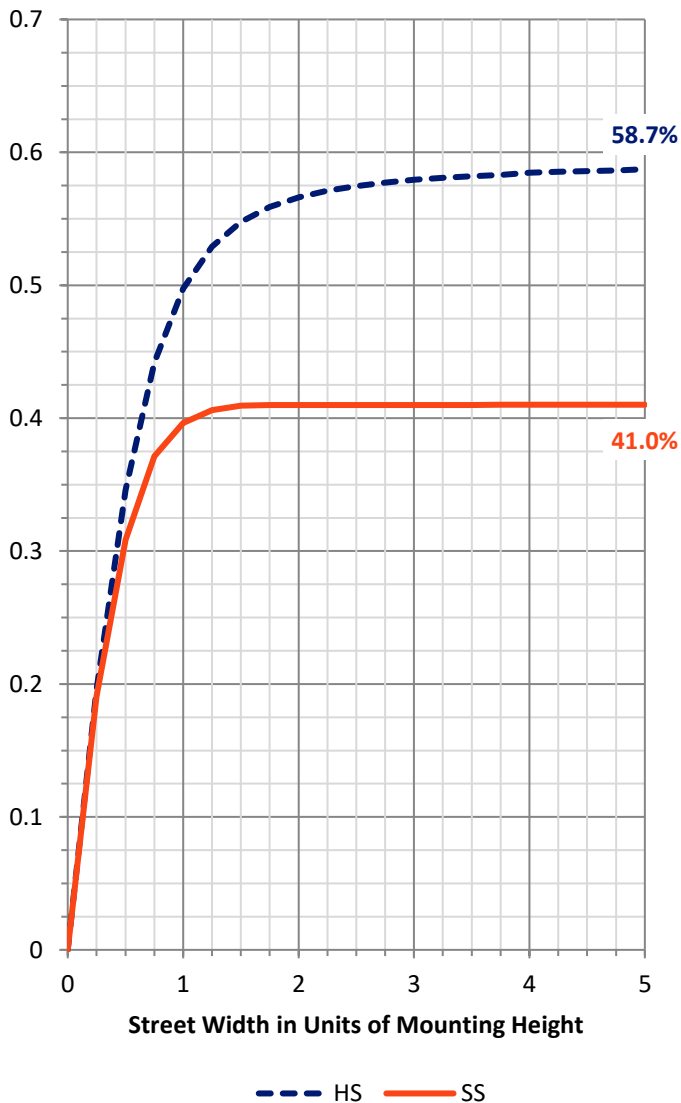
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18582.7	0.0	18582.7
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	12793.7	0.0	12793.7
	% Fixture	40.8	0.0	40.8
Total	Lumens	31376.4	0.0	31376.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2239.3	7.1
10°-20°	6004.9	19.1
20°-30°	7323.3	23.3
30°-40°	6686.1	21.3
40°-50°	4831.9	15.4
50°-60°	2638.3	8.4
60°-70°	1090.8	3.5
70°-80°	441.8	1.4
80°-90°	120.2	0.4
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°	31376.4	100.0
0°-180°	31376.4	100.0

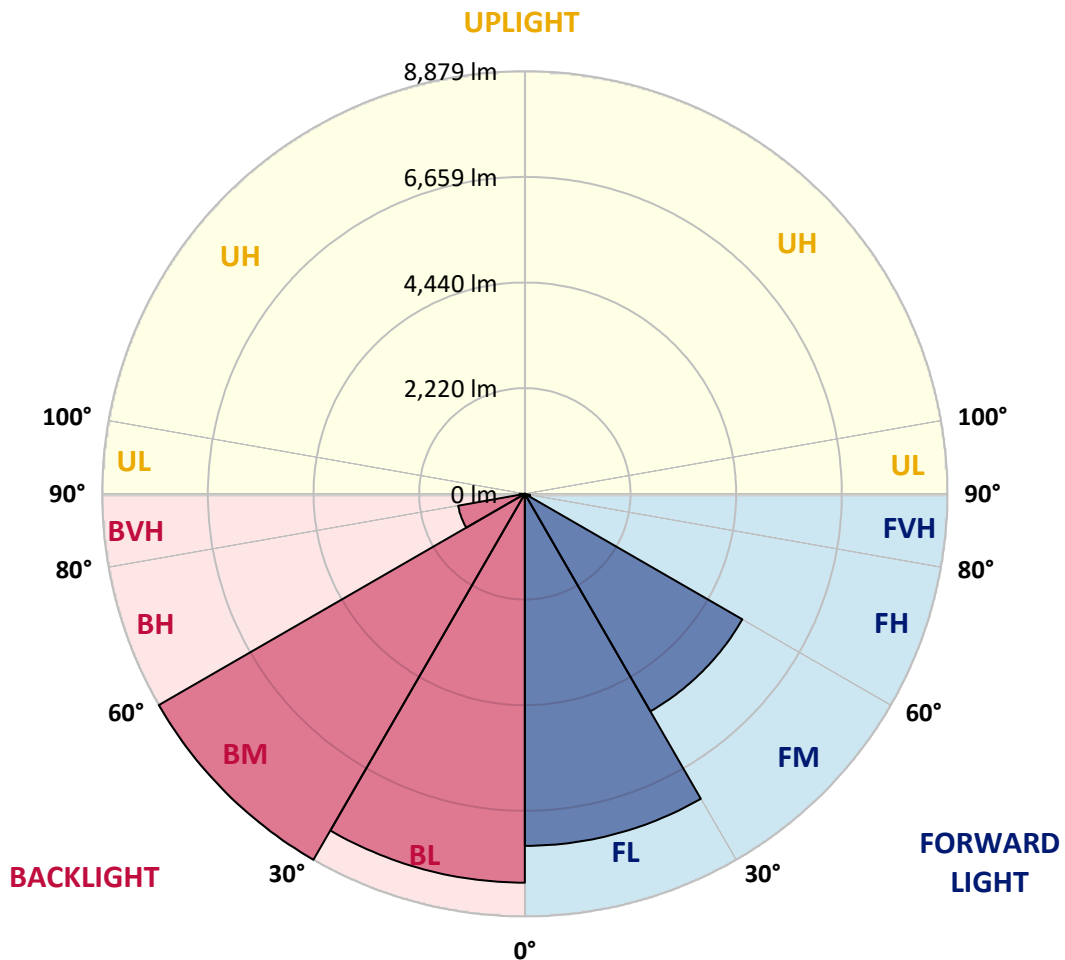


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7396.6	23.6			
FM	(30°-60°)	5276.9	16.8			
FH	(60°-80°)	110.6	0.4			G0/660
FVH	(80°-90°)	9.6	0.0			G0/10
BL	(0°-30°)	8170.9	26.0	B5		
BM	(30°-60°)	8879.3	28.3	B5		
BH	(60°-80°)	1422.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	110.5	0.4			G2/225
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°	23877.4	23877.4	23877.4	23877.4	23877.4	23877.4	23877.4	23877.4	23877.4	23877.4
2.5°	23833.2	23864.1	23696.2	23713.9	23744.8	23970.1	23912.7	23859.7	23784.6	23912.7
5°	23802.2	23819.9	23643.2	23581.3	23607.8	23811.1	23625.5	23625.5	23607.8	23585.7
7.5°	23563.6	23572.5	23435.5	23325.0	23395.7	23488.5	23351.6	23417.8	23320.6	23395.7
10°	23205.8	23148.3	22984.8	22953.9	23033.4	23121.8	23029.0	23090.9	23002.5	23059.9
12.5°	22680.0	22591.6	22459.0	22419.3	22556.2	22675.5	22600.4	22565.1	22450.2	22591.6
15°	20651.9	20585.6	20886.1	21411.9	21884.6	21986.3	21906.7	21942.1	21703.5	21743.2
17.5°	16997.8	16874.1	17196.6	18442.7	20218.9	21155.6	21084.9	20855.1	20501.7	20581.2
20°	15446.9	15411.6	15376.2	15672.3	16913.9	19754.9	19852.1	19268.9	18765.2	18654.7
22.5°	14572.1	14558.8	14523.5	14589.8	14916.7	16741.5	17855.0	17315.9	16980.1	16949.2
25°	13772.3	13750.2	13644.2	13728.2	13728.2	13834.2	15261.4	15588.3	15292.3	15256.9
27.5°	12959.3	12919.6	12901.9	12941.7	12738.4	12022.6	12384.9	13980.0	13825.4	13834.2
30°	12080.1	12066.8	12018.2	12102.2	11474.7	10586.6	10356.9	12521.9	12552.8	12544.0
32.5°	10772.2	10829.6	11050.6	11143.4	10109.4	9376.0	8991.6	10834.1	11465.9	11452.6
35°	7825.1	7825.1	8545.3	9884.1	8859.0	8306.7	8099.0	9186.0	10392.2	10436.4
37.5°	6433.3	6455.4	6596.8	7206.5	7643.9	7449.5	7387.7	7732.3	9013.7	9084.4
40°	5788.2	5788.2	5788.2	5536.3	5523.1	6711.6	6676.3	6565.8	7785.3	7940.0
42.5°	5200.5	5213.8	5222.6	4586.4	4232.9	5801.4	5721.9	5554.0	6685.1	6866.3
45°	4595.2	4617.3	4643.8	3835.2	3680.6	4175.4	4842.6	4657.1	5598.2	5832.4
47.5°	2805.7	2841.1	3442.0	3252.0	3269.7	3221.1	3950.1	3919.2	4590.8	4922.2
50°	1895.5	1908.8	1966.2	2063.4	2805.7	2531.8	2796.9	3243.1	3486.2	3989.9
52.5°	1590.6	1612.7	1471.3	1338.8	1842.5	1979.5	1953.0	2408.1	2505.3	3128.3
55°	1117.9	1188.6	1122.3	1109.0	1047.2	1537.6	1480.2	1851.3	1913.2	2377.1
57.5°	114.9	132.6	229.8	826.3	684.9	870.4	1056.0	1356.5	1418.3	1754.1
60°	8.8	8.8	22.1	114.9	499.3	521.4	729.0	835.1	954.4	1223.9
62.5°	0.0	4.4	8.8	17.7	79.5	278.4	366.7	437.4	574.4	790.9
65°	0.0	0.0	4.4	13.3	17.7	106.0	141.4	229.8	313.7	490.4
67.5°	0.0	0.0	4.4	8.8	13.3	26.5	48.6	84.0	167.9	278.4
70°	0.0	0.0	4.4	8.8	13.3	22.1	35.3	53.0	75.1	150.2
72.5°	0.0	0.0	4.4	4.4	8.8	22.1	26.5	35.3	53.0	75.1
75°	0.0	0.0	4.4	4.4	13.3	26.5	22.1	26.5	35.3	48.6
77.5°	0.0	0.0	4.4	8.8	13.3	26.5	22.1	26.5	26.5	30.9
80°	0.0	0.0	4.4	8.8	17.7	30.9	26.5	26.5	22.1	22.1
82.5°	0.0	0.0	4.4	13.3	17.7	39.8	39.8	35.3	17.7	13.3
85°	0.0	0.0	8.8	17.7	26.5	44.2	44.2	35.3	13.3	8.8
87.5°	0.0	0.0	8.8	13.3	22.1	30.9	44.2	35.3	13.3	4.4
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°
23877.4	0°	23877.4	23877.4	23877.4	23877.4	23877.4	23877.4	23877.4	23877.4	23877.4
23802.2	2.5°	23921.5	23895.0	23983.4	24018.7	24067.4	23881.8	23766.9	23771.3	23559.2
23532.7	5°	23674.1	23678.5	23793.4	23784.6	23833.2	23731.5	23687.4	23612.2	23426.7
23192.5	7.5°	23360.4	23320.6	23431.1	23515.0	23391.3	23462.0	23360.4	23395.7	23285.3
22892.0	10°	23117.4	23024.6	23126.2	23183.7	23188.1	23117.4	23020.2	22927.4	22887.6
22423.7	12.5°	22578.3	22459.0	22631.4	22710.9	22697.6	22560.7	22450.2	22472.3	22344.2
21601.9	15°	21836.0	21840.4	21964.2	22039.3	21968.6	21937.7	21946.5	21893.5	21783.0
20466.3	17.5°	20700.5	20766.8	21093.7	21274.9	21314.7	21252.8	21221.9	21160.0	21049.5
18654.7	20°	18809.4	19207.0	19790.3	20351.4	20461.9	20444.2	20333.8	20307.2	20245.4
16860.8	22.5°	17148.0	17444.1	18120.1	18995.0	19445.6	19489.8	19357.3	19317.5	19251.2
15256.9	25°	15429.3	15747.4	16357.1	17307.1	18239.4	18429.4	18407.3	18288.0	18217.3
13834.2	27.5°	13980.0	14298.1	14850.4	15707.6	16706.2	17315.9	17373.4	17183.4	17179.0
12566.1	30°	12672.1	13109.6	13529.3	14227.4	15195.1	16109.7	16206.9	16074.4	16087.6
11404.0	32.5°	11647.1	12009.4	12367.3	12835.6	13639.8	14704.6	15084.6	14960.9	14912.3
10436.4	35°	10599.9	10847.3	11214.1	11642.6	12190.5	13246.5	13904.9	13812.1	13763.5
9128.5	37.5°	9406.9	9831.1	10096.2	10577.8	11006.4	11845.9	12773.8	12760.5	12658.9
8015.1	40°	8183.0	8629.3	9031.3	9517.4	9848.7	10515.9	11545.4	11541.0	11554.3
6861.9	42.5°	7074.0	7484.9	7970.9	8501.1	8819.2	9305.3	10409.9	10471.8	10546.9
5911.9	45°	6071.0	6442.1	6892.8	7537.9	7922.3	8200.7	9181.6	9464.3	9459.9
5063.6	47.5°	5169.6	5518.7	5898.6	6526.1	7016.5	7268.4	8081.4	8483.4	8456.9
4153.4	50°	4338.9	4648.2	5045.9	5501.0	6159.3	6380.3	6985.6	7515.8	7476.0
3309.4	52.5°	3490.6	3919.2	4255.0	4670.3	5364.0	5580.5	6048.9	6565.8	6534.9
2483.2	55°	2721.8	3137.1	3543.6	3901.5	4484.7	4807.3	5143.1	5673.3	5664.5
1944.1	57.5°	2059.0	2514.1	2898.5	3238.7	3702.7	4100.3	4369.9	4851.5	4913.3
1330.0	60°	1524.4	1873.4	2288.8	2668.7	3035.5	3446.4	3627.6	4100.3	4126.8
910.2	62.5°	1038.3	1422.7	1829.2	2173.9	2447.8	2872.0	3035.5	3424.3	3472.9
583.2	65°	720.2	967.6	1431.6	1679.0	2014.8	2377.1	2540.6	2849.9	2947.1
335.8	67.5°	477.2	689.3	1117.9	1343.2	1674.6	1922.0	2129.7	2381.5	2487.6
212.1	70°	260.7	508.1	799.7	1060.4	1347.6	1586.2	1789.5	1992.7	2085.5
97.2	72.5°	176.7	340.2	556.7	839.5	1086.9	1321.1	1502.3	1652.5	1656.9
57.4	75°	88.4	229.8	424.2	649.5	848.3	1078.1	1241.6	1330.0	1223.9
35.3	77.5°	53.0	167.9	344.6	521.4	689.3	870.4	963.2	1011.8	839.5
26.5	80°	30.9	119.3	269.5	415.3	477.2	640.7	729.0	742.3	561.1
17.7	82.5°	22.1	88.4	212.1	304.9	291.6	450.7	547.9	530.2	357.9
13.3	85°	13.3	61.9	132.6	190.0	176.7	296.0	318.1	327.0	207.7
8.8	87.5°	8.8	35.3	70.7	101.6	84.0	128.1	128.1	154.6	101.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
23877.4
23285.3
23382.5
23099.7
22710.9
22233.7
21672.5
21000.9
20104.0
19233.6
18142.2
17170.1
16021.3
14916.7
13697.2
12742.8
11554.3
10507.1
9468.8
8465.8
7511.4
6601.2
5686.6
4886.8
4166.6
3481.7
2925.0
2474.3
2050.2
1617.2
1144.4
808.6
525.8
331.4
190.0
88.4
0.0

(END OF REPORT)