

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: P638792

Luminaire Tested: **EPH-VN-03-E-740-U-77-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638792  
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-740-U-77-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 7 distribution lens and Visor  
Light Source: (48) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20747.5 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

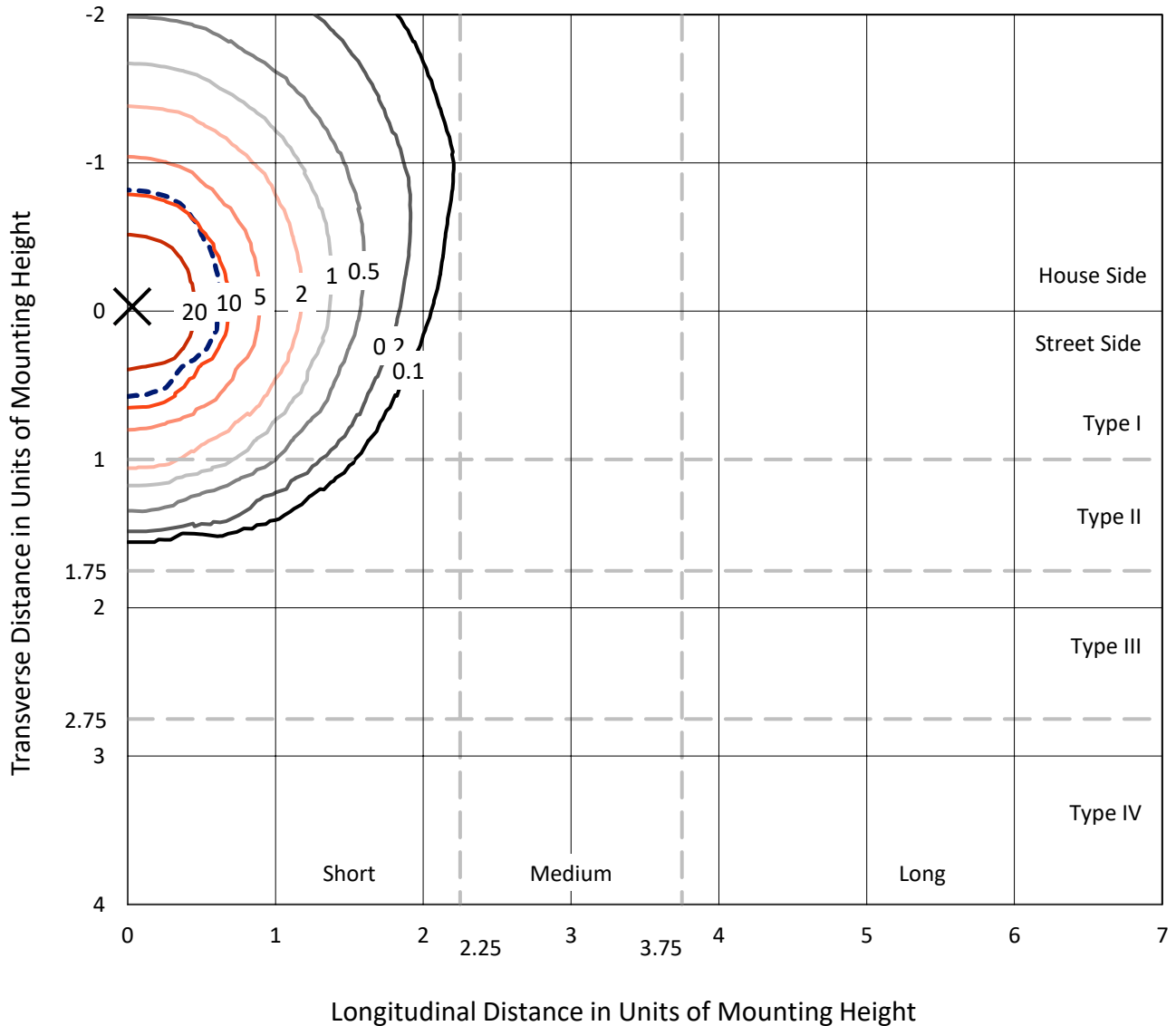
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

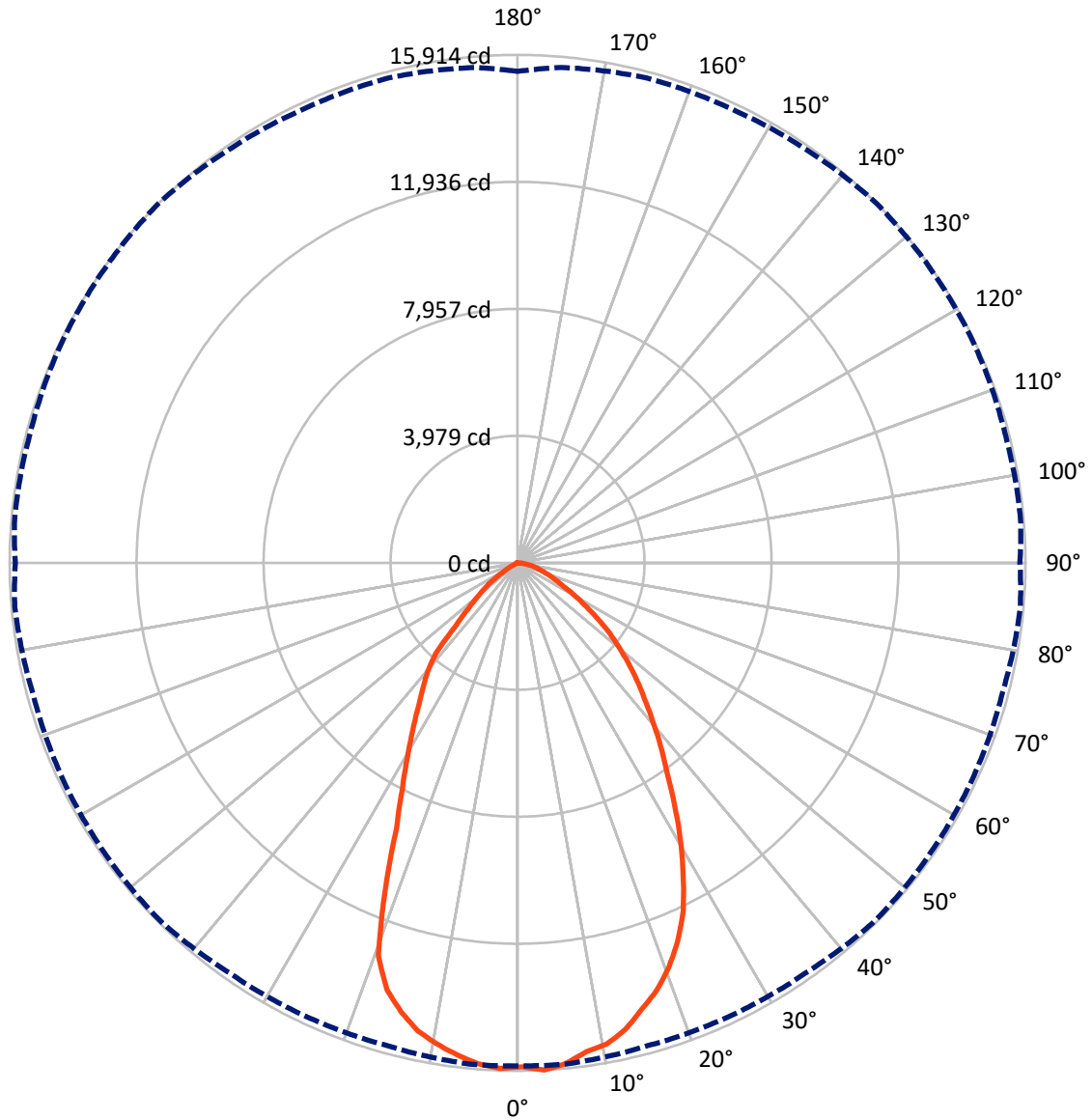
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 39.5 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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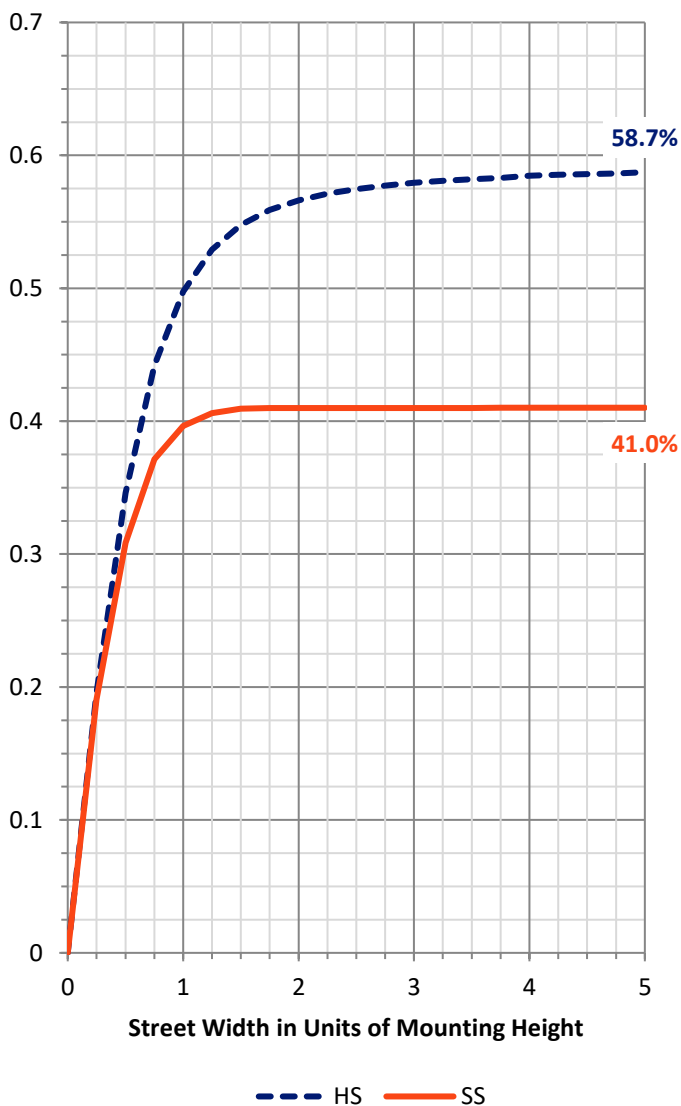
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12287.7	0.0	12287.7
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	8459.8	0.0	8459.8
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	20747.5	0.0	20747.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1480.7	7.1
10°-20°	3970.7	19.1
20°-30°	4842.5	23.3
30°-40°	4421.1	21.3
40°-50°	3195.0	15.4
50°-60°	1744.5	8.4
60°-70°	721.3	3.5
70°-80°	292.1	1.4
80°-90°	79.5	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°	20747.5	100.0
0°-180°	20747.5	100.0

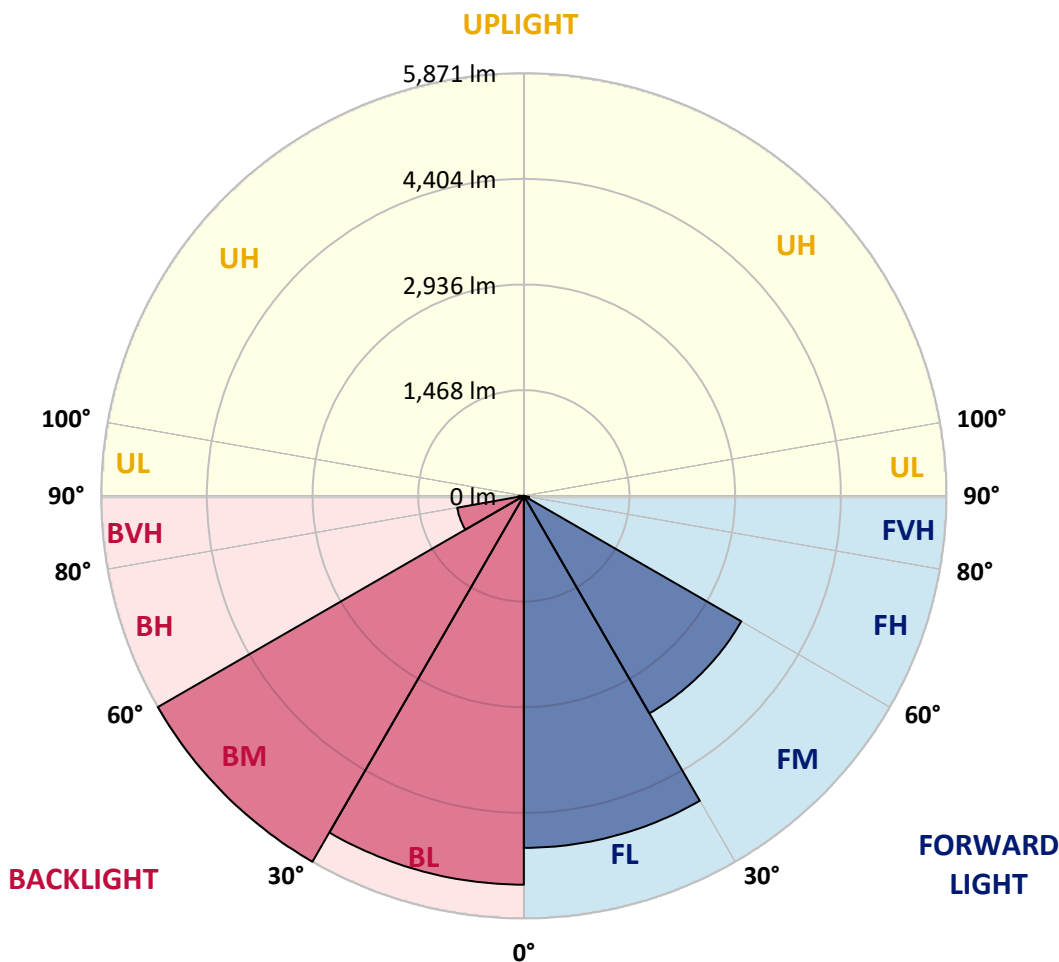


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4890.9	23.6			
FM	(30°-60°)	3489.3	16.8			
FH	(60°-80°)	73.1	0.4			G0/660
FVH	(80°-90°)	6.4	0.0			G0/10
BL	(0°-30°)	5402.9	26.0	B5		
BM	(30°-60°)	5871.4	28.3	B4/8500		
BH	(60°-80°)	940.3	4.5	B2/1000		G2/1000
BVH	(80°-90°)	73.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15788.8	15788.8	15788.8	15788.8	15788.8	15788.8	15788.8	15788.8	15788.8	15788.8
2.5°	15759.5	15780.0	15669.0	15680.7	15701.1	15850.1	15812.1	15777.1	15727.4	15812.1
5°	15739.1	15750.8	15633.9	15593.0	15610.5	15744.9	15622.2	15622.2	15610.5	15595.9
7.5°	15581.3	15587.2	15496.6	15423.6	15470.3	15531.7	15441.1	15484.9	15420.6	15470.3
10°	15344.7	15306.7	15198.6	15178.1	15230.7	15289.2	15227.8	15268.7	15210.3	15248.3
12.5°	14997.0	14938.6	14850.9	14824.6	14915.2	14994.1	14944.4	14921.0	14845.1	14938.6
15°	13655.9	13612.1	13810.8	14158.5	14471.1	14538.3	14485.7	14509.1	14351.3	14377.6
17.5°	11239.7	11157.9	11371.2	12195.1	13369.6	13989.0	13942.3	13790.3	13556.6	13609.2
20°	10214.2	10190.8	10167.4	10363.2	11184.2	13062.8	13127.1	12741.5	12408.4	12335.3
22.5°	9635.7	9626.9	9603.6	9647.4	9863.6	11070.2	11806.5	11450.1	11228.0	11207.6
25°	9106.9	9092.3	9022.2	9077.7	9077.7	9147.8	10091.5	10307.7	10111.9	10088.6
27.5°	8569.3	8543.0	8531.3	8557.6	8423.2	7949.9	8189.5	9244.2	9141.9	9147.8
30°	7987.9	7979.1	7947.0	8002.5	7587.6	7000.3	6848.4	8280.0	8300.5	8294.7
32.5°	7123.1	7161.0	7307.1	7368.5	6684.8	6199.8	5945.6	7164.0	7581.8	7573.0
35°	5174.3	5174.3	5650.5	6535.8	5858.0	5492.8	5355.4	6074.2	6871.8	6901.0
37.5°	4254.0	4268.6	4362.1	4765.3	5054.5	4926.0	4885.1	5112.9	5960.2	6007.0
40°	3827.4	3827.4	3827.4	3660.9	3652.1	4438.0	4414.7	4341.6	5148.0	5250.3
42.5°	3438.8	3447.6	3453.4	3032.7	2799.0	3836.2	3783.6	3672.6	4420.5	4540.3
45°	3038.5	3053.2	3070.7	2536.0	2433.8	2761.0	3202.2	3079.5	3701.8	3856.6
47.5°	1855.3	1878.6	2276.0	2150.4	2162.0	2129.9	2612.0	2591.5	3035.6	3254.8
50°	1253.4	1262.2	1300.1	1364.4	1855.3	1674.1	1849.4	2144.5	2305.2	2638.3
52.5°	1051.8	1066.4	972.9	885.3	1218.3	1308.9	1291.4	1592.3	1656.6	2068.6
55°	739.2	785.9	742.1	733.3	692.4	1016.7	978.8	1224.2	1265.1	1571.9
57.5°	76.0	87.7	151.9	546.4	452.9	575.6	698.3	897.0	937.9	1159.9
60°	5.8	5.8	14.6	76.0	330.1	344.8	482.1	552.2	631.1	809.3
62.5°	0.0	2.9	5.8	11.7	52.6	184.1	242.5	289.2	379.8	523.0
65°	0.0	0.0	2.9	8.8	11.7	70.1	93.5	151.9	207.4	324.3
67.5°	0.0	0.0	2.9	5.8	8.8	17.5	32.1	55.5	111.0	184.1
70°	0.0	0.0	2.9	5.8	8.8	14.6	23.4	35.1	49.7	99.3
72.5°	0.0	0.0	2.9	2.9	5.8	14.6	17.5	23.4	35.1	49.7
75°	0.0	0.0	2.9	2.9	8.8	17.5	14.6	17.5	23.4	32.1
77.5°	0.0	0.0	2.9	5.8	8.8	17.5	14.6	17.5	17.5	20.5
80°	0.0	0.0	2.9	5.8	11.7	20.5	17.5	17.5	14.6	14.6
82.5°	0.0	0.0	2.9	8.8	11.7	26.3	26.3	23.4	11.7	8.8
85°	0.0	0.0	5.8	11.7	17.5	29.2	29.2	23.4	8.8	5.8
87.5°	0.0	0.0	5.8	8.8	14.6	20.5	29.2	23.4	8.8	2.9
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°
15788.8	0°	15788.8	15788.8	15788.8	15788.8	15788.8	15788.8	15788.8	15788.8	15788.8
15739.1	2.5°	15818.0	15800.5	15858.9	15882.3	15914.4	15791.7	15715.7	15718.6	15578.4
15560.9	5°	15654.4	15657.3	15733.3	15727.4	15759.5	15692.3	15663.1	15613.5	15490.8
15335.9	7.5°	15446.9	15420.6	15493.7	15549.2	15467.4	15514.1	15446.9	15470.3	15397.3
15137.2	10°	15286.2	15224.9	15292.1	15330.1	15333.0	15286.2	15222.0	15160.6	15134.3
14827.5	12.5°	14929.8	14850.9	14964.8	15017.4	15008.7	14918.1	14845.1	14859.7	14774.9
14284.1	15°	14438.9	14441.9	14523.7	14573.3	14526.6	14506.1	14512.0	14476.9	14403.9
13533.2	17.5°	13688.1	13731.9	13948.1	14067.9	14094.2	14053.3	14032.8	13991.9	13918.9
12335.3	20°	12437.6	12700.5	13086.2	13457.3	13530.3	13518.6	13445.6	13428.0	13387.1
11149.1	22.5°	11339.0	11534.8	11981.8	12560.3	12858.3	12887.5	12799.9	12773.6	12729.8
10088.6	25°	10202.5	10412.9	10816.1	11444.2	12060.7	12186.3	12171.7	12092.8	12046.1
9147.8	27.5°	9244.2	9454.6	9819.8	10386.6	11046.9	11450.1	11488.0	11362.4	11359.5
8309.3	30°	8379.4	8668.6	8946.2	9407.8	10047.7	10652.4	10716.7	10629.1	10637.8
7540.9	32.5°	7701.6	7941.1	8177.8	8487.5	9019.2	9723.4	9974.6	9892.8	9860.7
6901.0	35°	7009.1	7172.7	7415.2	7698.6	8060.9	8759.2	9194.5	9133.2	9101.0
6036.2	37.5°	6220.3	6500.7	6676.0	6994.5	7277.9	7833.0	8446.6	8437.8	8370.6
5299.9	40°	5411.0	5706.0	5971.9	6293.3	6512.4	6953.6	7634.4	7631.4	7640.2
4537.4	42.5°	4677.6	4949.3	5270.7	5621.3	5831.7	6153.1	6883.5	6924.4	6974.1
3909.2	45°	4014.4	4259.8	4557.8	4984.4	5238.6	5422.6	6071.3	6258.2	6255.3
3348.2	47.5°	3418.4	3649.2	3900.4	4315.3	4639.6	4806.2	5343.8	5609.6	5592.1
2746.4	50°	2869.1	3073.6	3336.6	3637.5	4072.8	4218.9	4619.2	4969.8	4943.5
2188.3	52.5°	2308.1	2591.5	2813.6	3088.2	3546.9	3690.1	3999.8	4341.6	4321.2
1642.0	55°	1799.8	2074.4	2343.2	2579.8	2965.5	3178.8	3400.8	3751.4	3745.6
1285.5	57.5°	1361.5	1662.4	1916.6	2141.6	2448.4	2711.3	2889.5	3208.0	3248.9
879.4	60°	1008.0	1238.8	1513.4	1764.7	2007.2	2278.9	2398.7	2711.3	2728.9
601.9	62.5°	686.6	940.8	1209.6	1437.5	1618.6	1899.1	2007.2	2264.3	2296.4
385.7	65°	476.2	639.8	946.6	1110.2	1332.3	1571.9	1680.0	1884.5	1948.8
222.0	67.5°	315.5	455.8	739.2	888.2	1107.3	1270.9	1408.3	1574.8	1644.9
140.2	70°	172.4	336.0	528.8	701.2	891.1	1048.9	1183.3	1317.7	1379.0
64.3	72.5°	116.9	225.0	368.1	555.1	718.7	873.6	993.4	1092.7	1095.6
38.0	75°	58.4	151.9	280.5	429.5	561.0	712.9	821.0	879.4	809.3
23.4	77.5°	35.1	111.0	227.9	344.8	455.8	575.6	636.9	669.1	555.1
17.5	80°	20.5	78.9	178.2	274.6	315.5	423.6	482.1	490.8	371.1
11.7	82.5°	14.6	58.4	140.2	201.6	192.8	298.0	362.3	350.6	236.7
8.8	85°	8.8	40.9	87.7	125.6	116.9	195.8	210.4	216.2	137.3
5.8	87.5°	5.8	23.4	46.7	67.2	55.5	84.7	84.7	102.3	67.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
15788.8  
*15397.3*  
15461.5  
15274.5  
15017.4  
14701.9  
14330.8  
13886.7  
13293.6  
12718.1  
11996.4  
11353.7  
10594.0  
9863.6  
9057.2  
8426.1  
7640.2  
6947.8  
6261.2  
5597.9  
4966.9  
4365.0  
3760.2  
3231.4  
2755.1  
2302.3  
1934.2  
1636.1  
1355.7  
1069.3  
756.7  
534.7  
347.7  
219.1  
125.6  
58.4  
0.0

(END OF REPORT)