

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: P638776

Luminaire Tested: **EPH-VN-06-E-950-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638776
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-E-950-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (96) 5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32240.1 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 464.2
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



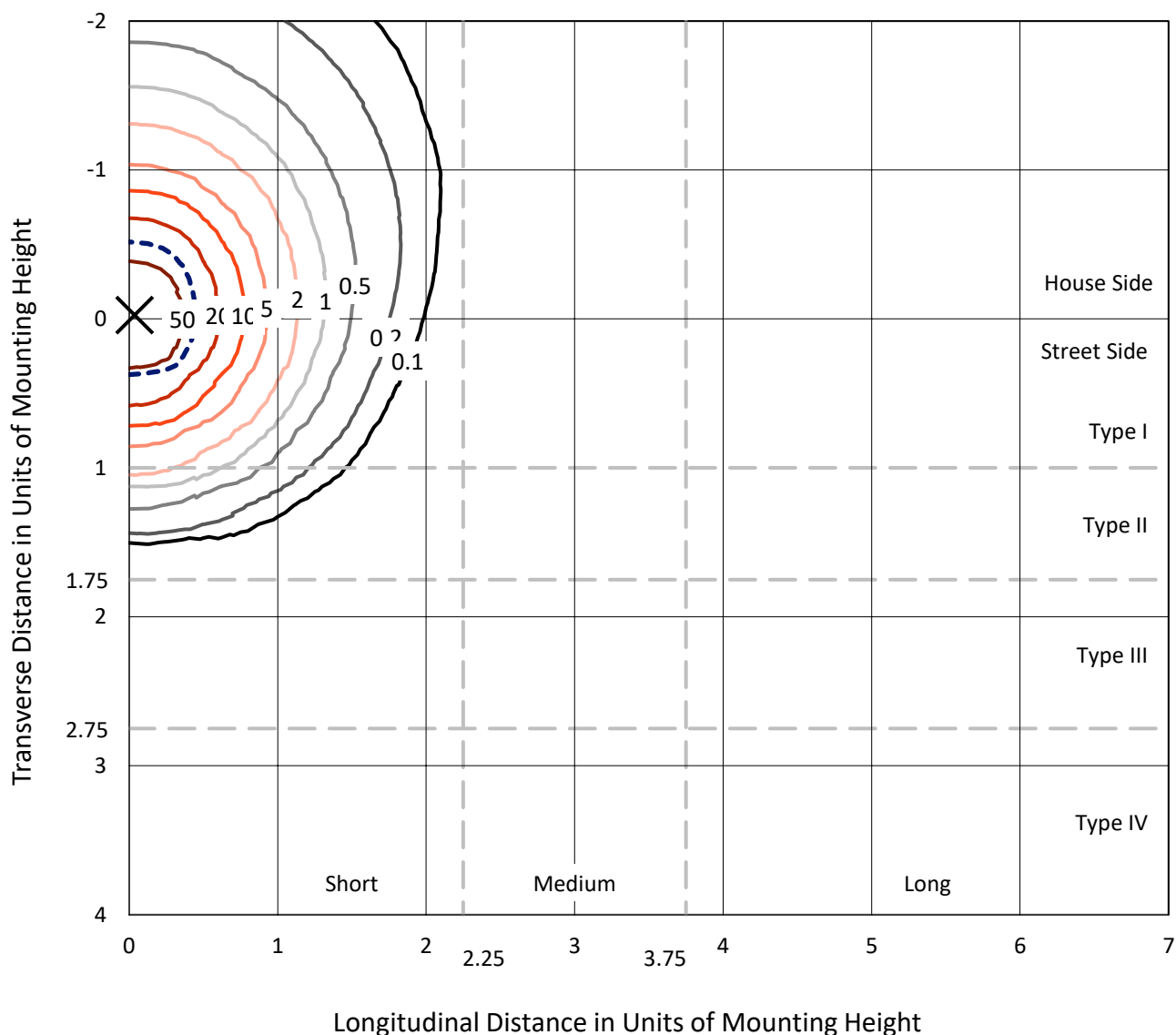
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

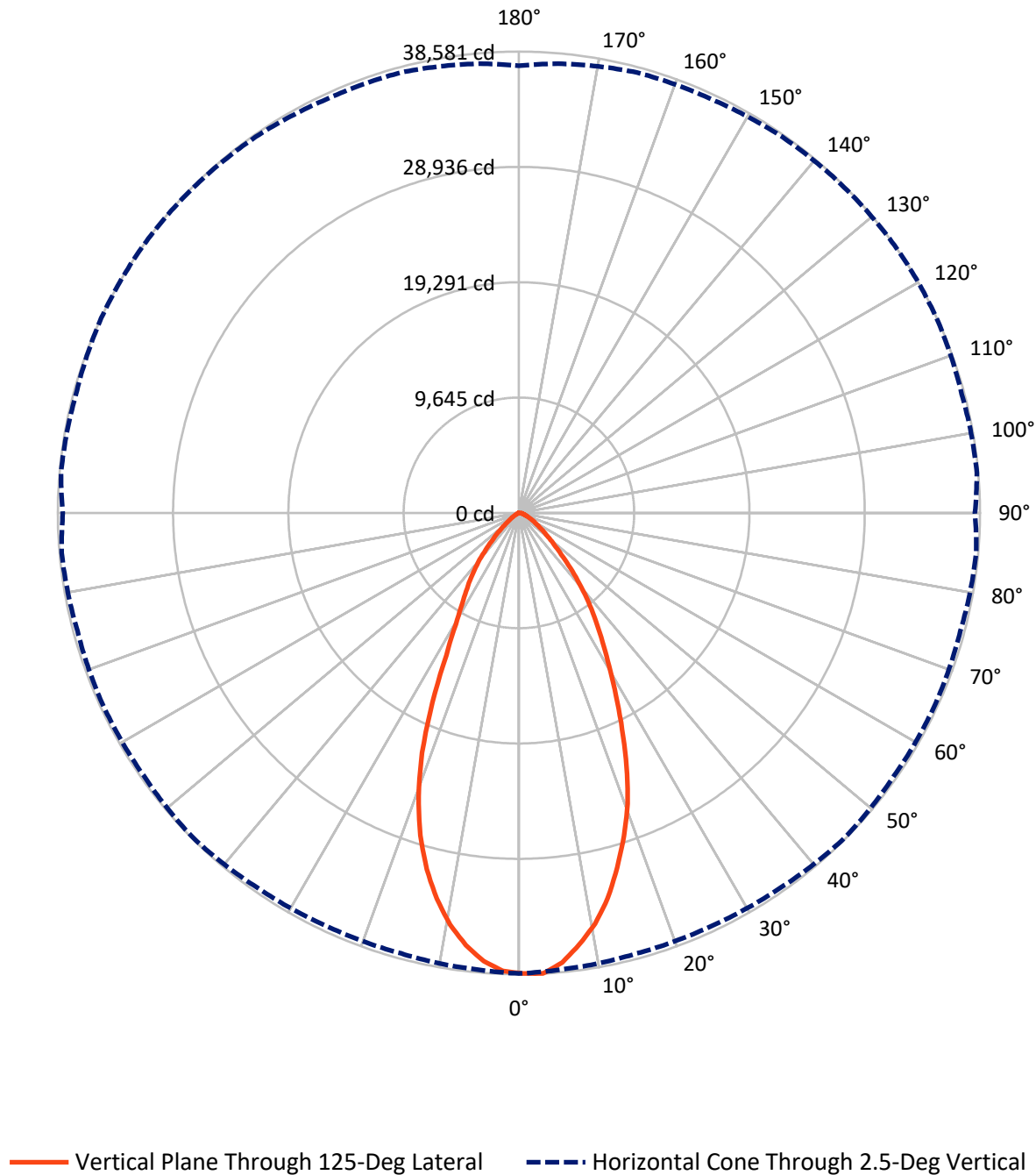


Based on 20 foot mounting height. Maximum calculated value = 96.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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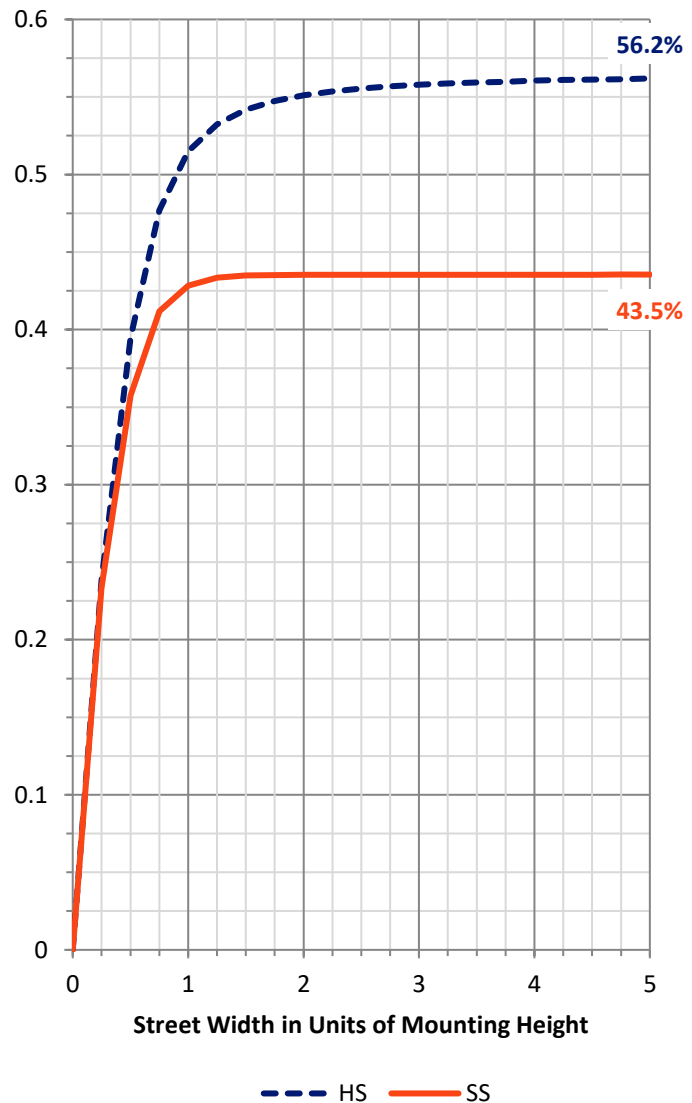
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18294.3	0.0	18294.3
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	13945.8	0.0	13945.8
	% Fixture	43.3	0.0	43.3
Total	Lumens	32240.1	0.0	32240.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3497.7	10.8
10°-20°	8337.7	25.9
20°-30°	8491.8	26.3
30°-40°	6332.3	19.6
40°-50°	3308.2	10.3
50°-60°	1391.4	4.3
60°-70°	568.3	1.8
70°-80°	239.1	0.7
80°-90°	73.7	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°	32240.1	100.0
0°-180°	32240.1	100.0

Coefficient of Utilization



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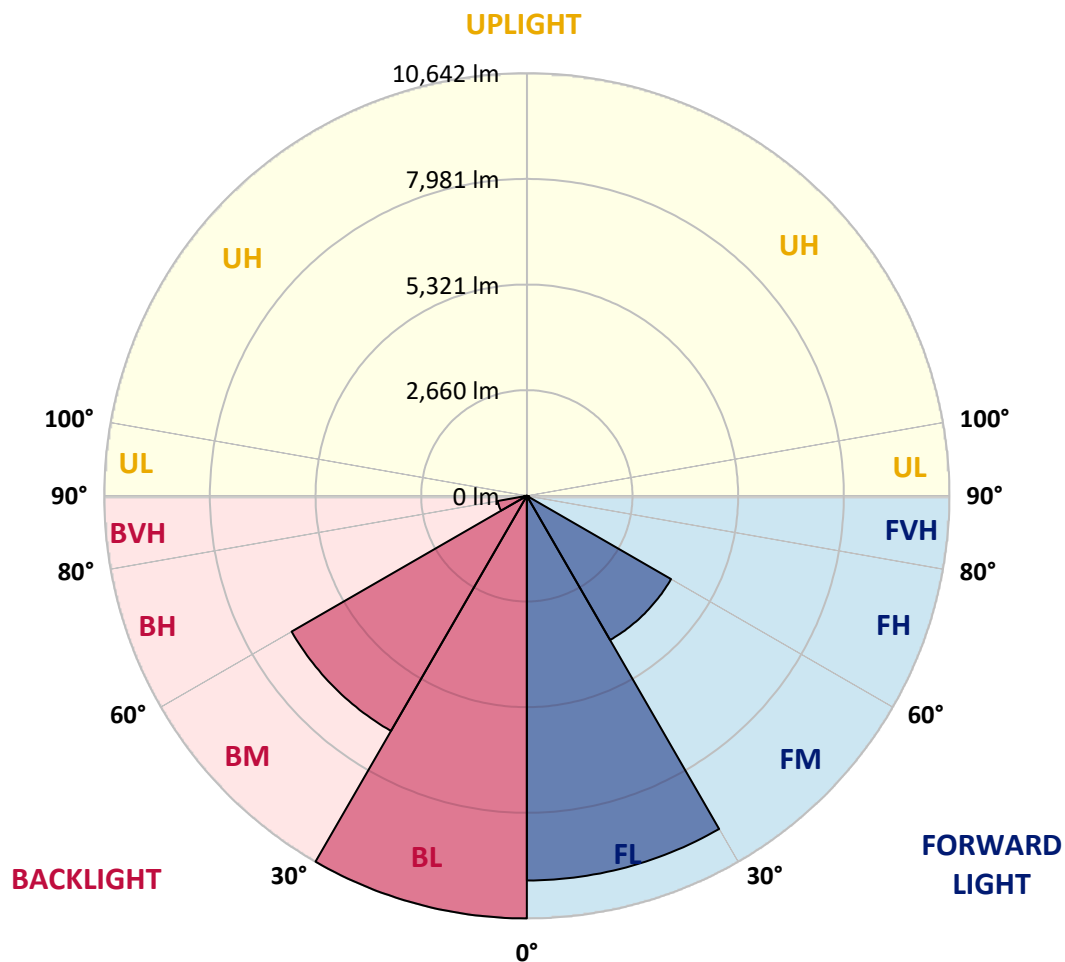
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9685.3	30.0			
FM	(30°-60°)	4193.0	13.0			
FH	(60°-80°)	60.7	0.2			G0/660
FVH	(80°-90°)	6.8	0.0			G0/10
BL	(0°-30°)	10641.8	33.0	B5		
BM	(30°-60°)	6838.9	21.2	B4/8500		
BH	(60°-80°)	746.7	2.3	B2/1000		G2/1000
BVH	(80°-90°)	66.8	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-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	38519.2	38519.2	38519.2	38519.2	38519.2	38519.2	38519.2	38519.2	38519.2	38519.2
2.5°	38523.3	38365.9	38142.3	38121.6	38237.6	38490.2	38328.7	38337.0	38237.6	38407.4
5°	37918.7	37769.6	37616.3	37413.4	37583.2	37690.9	37608.1	37517.0	37388.6	37554.2
7.5°	36775.6	36692.8	36465.0	36373.9	36477.5	36597.6	36419.5	36394.6	36216.6	36431.9
10°	35028.0	34994.8	34771.2	34717.4	34808.5	34990.7	34912.0	34895.4	34783.6	34762.9
12.5°	33214.0	33085.7	32808.2	32791.6	32928.3	33201.6	32990.4	32787.5	32849.6	32903.4
15°	28542.5	28405.9	29093.3	30174.2	30741.6	30720.9	30783.0	30538.7	30464.1	30489.0
17.5°	22690.7	22458.8	22707.3	24380.4	27076.5	28641.9	28211.2	27685.3	27403.7	27217.3
20°	19584.7	19597.1	19551.6	19982.3	21663.7	25233.6	25130.0	24115.4	23746.8	23593.6
22.5°	17696.2	17625.8	17526.4	17663.1	18114.5	20210.0	21614.0	20682.2	20553.8	20384.0
25°	15845.0	15845.0	15724.9	15861.6	15990.0	16018.9	17427.0	17808.0	17559.5	17559.5
27.5°	14242.3	14159.5	14105.6	14167.7	13997.9	13182.1	13360.2	15310.8	15141.0	15037.4
30°	12652.0	12627.1	12536.0	12618.8	11989.4	11070.0	10697.2	12921.2	13099.3	13062.0
32.5°	10444.6	10544.0	10949.9	11078.2	10001.5	9260.2	8904.0	10726.2	11438.6	11409.6
35°	7098.4	7181.2	7645.0	9177.3	8291.1	7761.0	7657.5	8531.3	9703.3	9815.1
37.5°	5653.0	5640.6	5773.1	6046.4	6663.5	6535.1	6506.1	6733.9	7914.2	7963.9
40°	4659.1	4642.5	4638.4	4414.7	4261.5	5433.5	5354.8	5218.2	6241.1	6340.5
42.5°	3756.3	3772.8	3785.2	3296.6	3072.9	4191.1	4145.5	4004.7	4895.1	5011.1
45°	2948.7	2944.5	2969.4	2455.9	2393.7	2679.5	3097.8	2986.0	3694.1	3818.4
47.5°	1528.2	1582.0	1917.5	1900.9	1929.9	1900.9	2344.0	2315.0	2778.9	2977.7
50°	1027.1	1043.6	1072.6	1076.8	1519.9	1399.8	1590.3	1801.5	1946.5	2252.9
52.5°	795.1	807.6	733.0	687.5	931.8	1035.4	1043.6	1246.6	1358.4	1669.0
55°	443.1	497.0	534.2	538.4	513.5	766.2	762.0	923.5	1010.5	1217.6
57.5°	58.0	70.4	107.7	347.9	343.7	426.6	534.2	670.9	720.6	890.4
60°	4.1	8.3	12.4	53.8	227.8	248.5	364.4	418.3	501.1	625.4
62.5°	0.0	0.0	4.1	12.4	45.6	144.9	190.5	219.5	294.0	410.0
65°	0.0	0.0	4.1	8.3	16.6	53.8	74.5	120.1	173.9	252.6
67.5°	0.0	0.0	4.1	8.3	12.4	20.7	33.1	53.8	91.1	153.2
70°	0.0	0.0	4.1	8.3	12.4	16.6	24.8	33.1	49.7	82.8
72.5°	0.0	0.0	4.1	4.1	8.3	20.7	20.7	24.8	33.1	45.6
75°	0.0	0.0	4.1	8.3	12.4	20.7	20.7	20.7	24.8	29.0
77.5°	0.0	0.0	4.1	8.3	12.4	20.7	16.6	20.7	20.7	20.7
80°	0.0	0.0	4.1	8.3	12.4	20.7	24.8	20.7	16.6	16.6
82.5°	0.0	0.0	4.1	12.4	12.4	29.0	29.0	29.0	12.4	12.4
85°	0.0	0.0	8.3	12.4	20.7	33.1	33.1	24.8	12.4	8.3
87.5°	0.0	0.0	4.1	8.3	8.3	16.6	24.8	20.7	8.3	4.1
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°
38519.2	0°	38519.2	38519.2	38519.2	38519.2	38519.2	38519.2	38519.2	38519.2	38519.2
38158.9	2.5°	38465.3	38361.8	38556.4	38581.3	38498.5	38394.9	38154.7	38134.0	37715.7
37314.0	5°	37736.4	37566.7	37690.9	37773.7	37744.7	37632.9	37533.5	37442.4	37065.5
35943.2	7.5°	36378.1	36315.9	36373.9	36436.0	36556.1	36436.0	36394.6	36299.4	35926.7
34593.1	10°	34870.6	34754.6	34974.1	34945.1	34912.0	34878.9	34704.9	34721.5	34282.5
32754.3	12.5°	33019.4	32824.7	33036.0	33060.8	33036.0	32920.0	32725.4	32808.2	32406.5
30269.5	15°	30530.4	30509.7	30662.9	30762.3	30832.7	30708.5	30642.2	30683.6	30443.4
27072.3	17.5°	27474.1	27743.2	28244.4	28414.2	28418.3	28546.7	28509.4	28459.7	28281.6
23531.4	20°	23879.3	24397.0	25167.3	25958.3	26186.1	26078.4	26028.7	26119.8	25854.8
20205.9	22.5°	20562.1	21005.2	21899.7	23055.2	23721.9	23788.2	23775.8	23697.1	23593.6
17543.0	25°	17745.9	18139.3	18996.6	20052.7	21332.4	21522.9	21531.1	21506.3	21415.2
15128.5	27.5°	15368.7	15845.0	16317.1	17261.4	18623.9	19410.7	19311.4	19282.4	19249.2
13091.0	30°	13215.2	13815.7	14258.8	14846.9	16068.6	17133.0	17236.5	17186.8	17108.1
11405.4	32.5°	11509.0	11865.1	12428.3	12825.9	13703.9	14909.0	15306.6	15269.3	15198.9
9885.5	35°	10026.3	10167.1	10610.3	11053.4	11637.3	12805.2	13393.3	13310.5	13298.0
8055.0	37.5°	8258.0	8730.1	8974.4	9421.7	9831.7	10738.7	11550.4	11513.1	11517.2
6477.2	40°	6667.7	6941.0	7425.5	7802.4	8179.3	8841.9	9744.7	9769.6	9761.3
5015.2	42.5°	5118.8	5383.8	5893.2	6303.2	6638.7	7048.7	7910.1	7939.1	7976.3
3905.3	45°	3996.5	4166.2	4539.0	4965.5	5321.7	5570.2	6224.5	6410.9	6415.0
3027.4	47.5°	3101.9	3296.6	3561.6	3971.6	4319.5	4497.6	4973.8	5226.4	5214.0
2323.3	50°	2435.1	2613.2	2828.6	3151.6	3528.5	3669.3	4021.3	4269.8	4257.4
1751.8	52.5°	1863.6	2091.4	2281.9	2530.4	2899.0	3019.1	3271.7	3557.5	3516.0
1283.8	55°	1412.2	1644.1	1822.2	2029.3	2364.7	2518.0	2691.9	2919.7	2928.0
993.9	57.5°	1064.3	1304.5	1466.1	1677.3	1929.9	2099.7	2232.2	2476.6	2472.4
679.2	60°	762.0	969.1	1163.7	1383.2	1577.9	1772.5	1863.6	2095.5	2103.8
480.4	62.5°	550.8	745.5	931.8	1122.3	1296.3	1486.8	1569.6	1751.8	1776.7
314.7	65°	385.2	521.8	737.2	882.1	1076.8	1217.6	1325.2	1482.6	1511.6
186.4	67.5°	248.5	376.9	583.9	712.3	890.4	1010.5	1122.3	1246.6	1283.8
120.1	70°	149.1	285.8	434.8	571.5	733.0	840.7	948.4	1056.1	1076.8
58.0	72.5°	95.3	198.8	314.7	463.8	588.1	704.0	799.3	878.0	815.9
37.3	75°	53.8	136.7	248.5	364.4	476.3	588.1	666.8	708.2	567.4
24.8	77.5°	33.1	99.4	202.9	294.0	368.6	472.1	521.8	546.7	405.9
16.6	80°	20.7	74.5	169.8	240.2	240.2	347.9	405.9	426.6	294.0
12.4	82.5°	16.6	53.8	132.5	182.2	161.5	260.9	318.9	323.0	207.1
8.3	85°	12.4	41.4	82.8	120.1	111.8	182.2	186.4	207.1	136.7
8.3	87.5°	8.3	24.8	49.7	70.4	62.1	87.0	99.4	111.8	74.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
38519.2
37388.6
36763.2
35848.0
34133.4
32290.5
30153.5
28016.6
25664.3
23394.8
21108.7
19054.6
17008.7
15012.6
13161.4
11384.7
9616.3
7852.1
6307.4
5168.5
4257.4
3520.2
2928.0
2464.1
2083.1
1768.4
1503.3
1279.7
1060.2
757.9
538.4
381.0
273.3
190.5
124.2
66.3
0.0

(END OF REPORT)