

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: P638739

Luminaire Tested: **EPH-VN-04-E-740-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638739
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-04-E-740-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29491.1 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 303.8
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



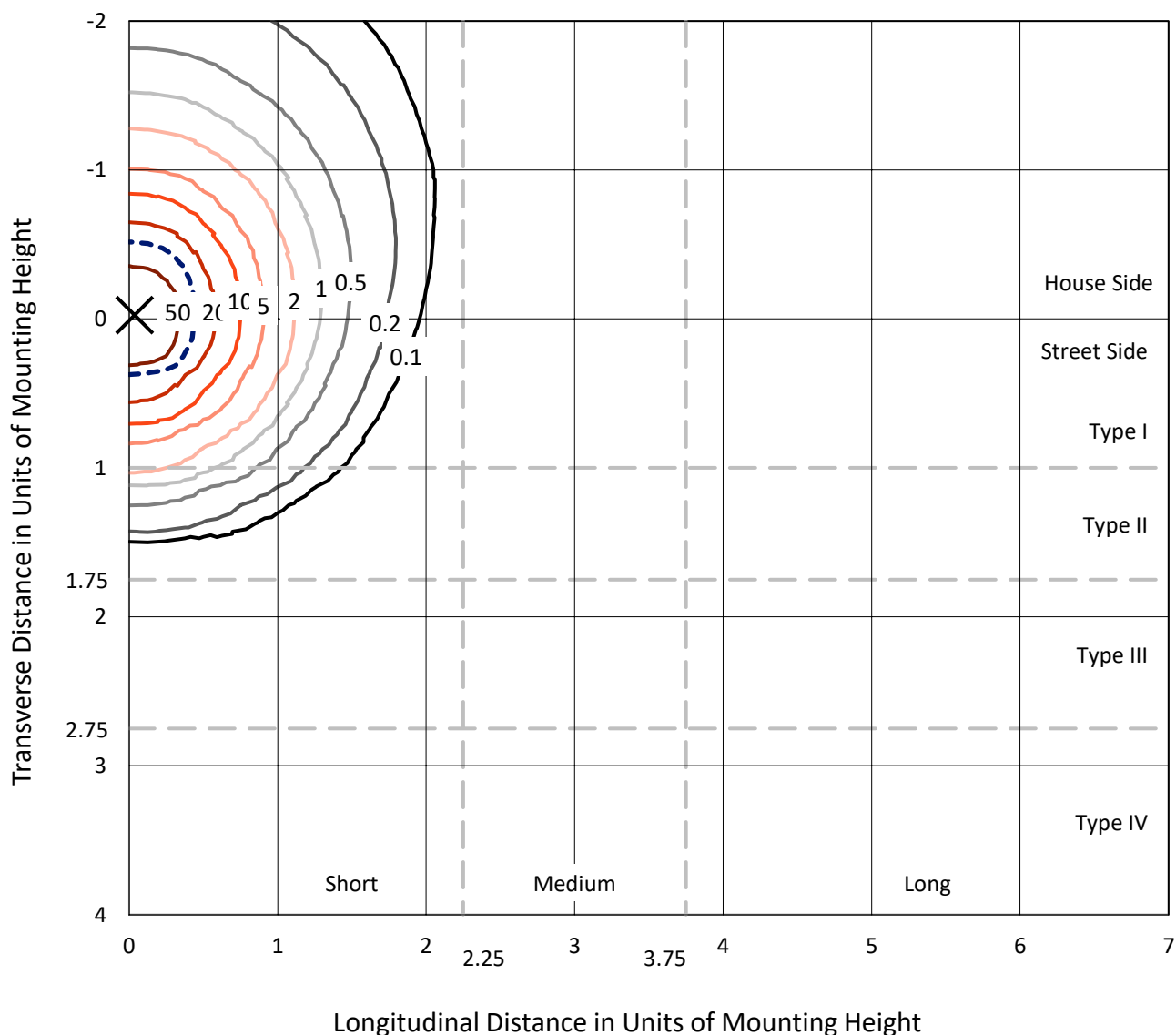
REPORT NUMBER: P638739

CATALOG NUMBER: EPH-VN-04-E-740-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

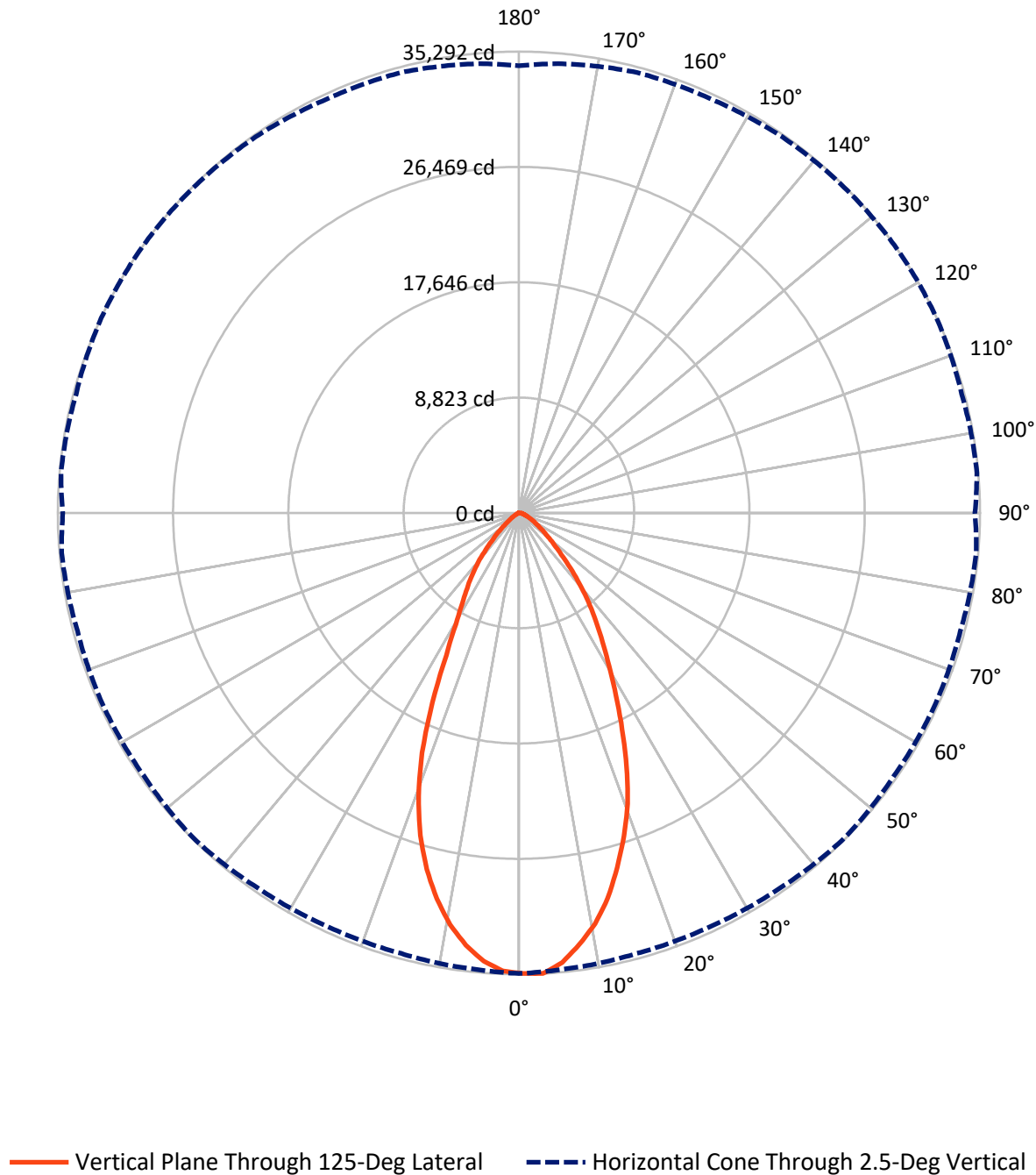


Based on 20 foot mounting height. Maximum calculated value = 88.1 fc

Type I - Short - N/A

REPORT NUMBER: P638739
CATALOG NUMBER: EPH-VN-04-E-740-U-66-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P638739

CATALOG NUMBER: EPH-VN-04-E-740-U-66-VI

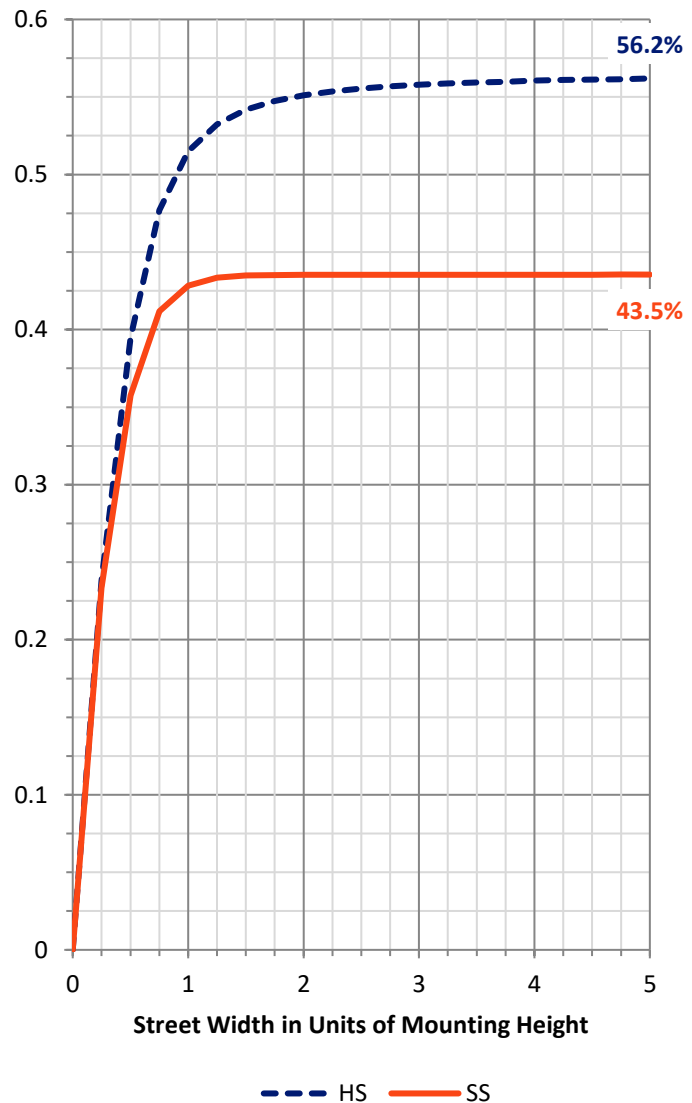
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16734.4	0.0	16734.4
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	12756.7	0.0	12756.7
	% Fixture	43.3	0.0	43.3
Total	Lumens	29491.1	0.0	29491.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3199.4	10.8
10°-20°	7626.8	25.9
20°-30°	7767.7	26.3
30°-40°	5792.3	19.6
40°-50°	3026.1	10.3
50°-60°	1272.8	4.3
60°-70°	519.8	1.8
70°-80°	218.7	0.7
80°-90°	67.4	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°	29491.1	100.0
0°-180°	29491.1	100.0

Coefficient of Utilization



REPORT NUMBER: P638739

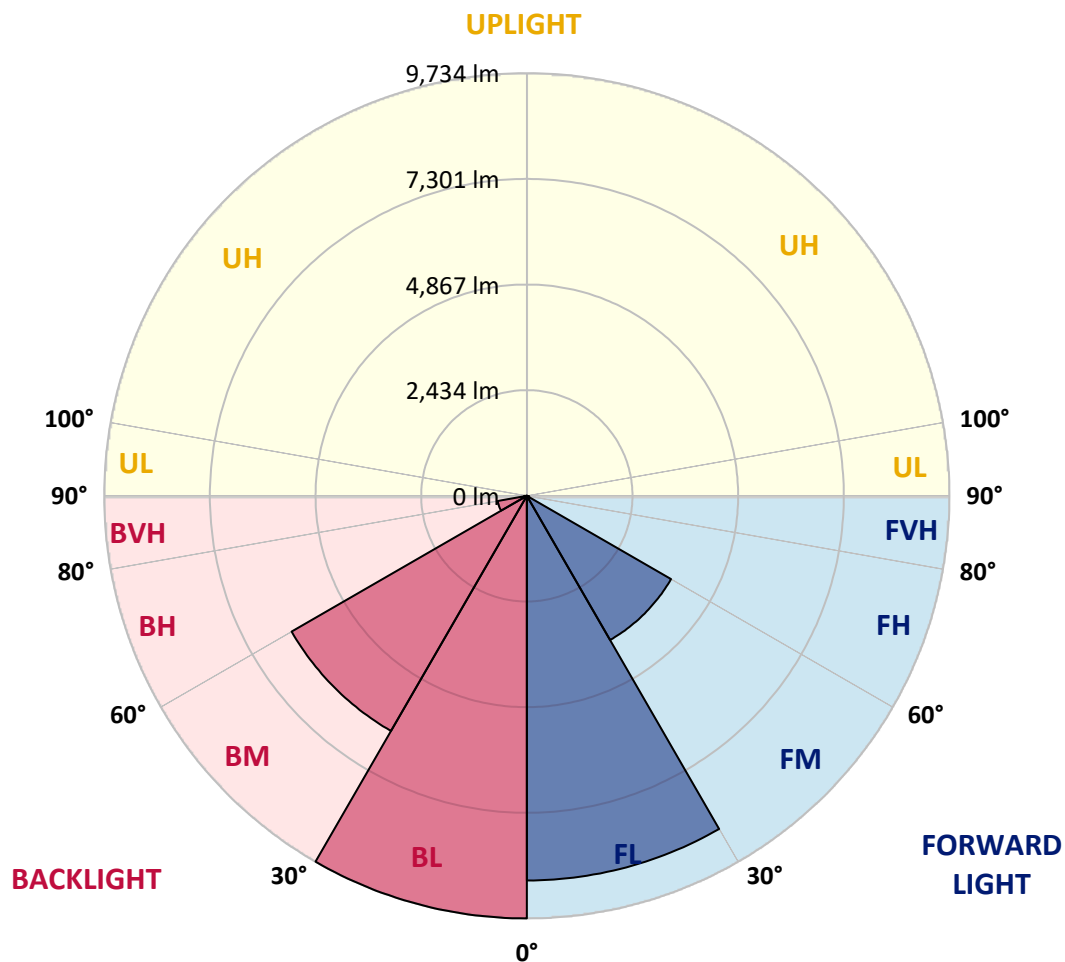
CATALOG NUMBER: EPH-VN-04-E-740-U-66-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8859.5	30.0			
FM	(30°-60°)	3835.4	13.0			
FH	(60°-80°)	55.5	0.2			G0/660
FVH	(80°-90°)	6.3	0.0			G0/10
BL	(0°-30°)	9734.4	33.0	B5		
BM	(30°-60°)	6255.8	21.2	B4/8500		
BH	(60°-80°)	683.1	2.3	B2/1000		G2/1000
BVH	(80°-90°)	61.1	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



REPORT NUMBER: P638739

CATALOG NUMBER: EPH-VN-04-E-740-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	35234.7	35234.7	35234.7	35234.7	35234.7	35234.7	35234.7	35234.7	35234.7	35234.7
2.5°	35238.5	35094.5	34890.0	34871.0	34977.1	35208.2	35060.4	35068.0	34977.1	35132.4
5°	34685.4	34549.0	34408.8	34223.2	34378.5	34477.0	34401.3	34317.9	34200.5	34352.0
7.5°	33639.8	33564.1	33355.7	33272.4	33367.1	33476.9	33314.0	33291.3	33128.4	33325.4
10°	32041.2	32010.9	31806.3	31757.1	31840.4	32007.1	31935.1	31920.0	31817.7	31798.7
12.5°	30381.9	30264.5	30010.7	29995.5	30120.5	30370.6	30177.3	29991.7	30048.5	30097.8
15°	26108.7	25983.7	26612.6	27601.3	28120.3	28101.4	28158.2	27934.7	27866.5	27889.2
17.5°	20755.9	20543.8	20771.1	22301.5	24767.7	26199.7	25805.7	25324.6	25067.0	24896.5
20°	17914.7	17926.1	17884.4	18278.4	19816.4	23081.9	22987.2	22059.1	21721.9	21581.8
22.5°	16187.3	16122.9	16032.0	16157.0	16569.9	18486.8	19771.0	18918.6	18801.2	18645.9
25°	14493.9	14493.9	14384.1	14509.1	14626.5	14653.0	15941.0	16289.6	16062.3	16062.3
27.5°	13027.9	12952.1	12902.8	12959.7	12804.3	12058.1	12221.0	14005.2	13849.9	13755.2
30°	11573.2	11550.4	11467.1	11542.9	10967.0	10126.0	9785.1	11819.4	11982.3	11948.2
32.5°	9554.0	9644.9	10016.2	10133.6	9148.7	8470.6	8144.8	9811.6	10463.2	10436.7
35°	6493.1	6568.9	6993.1	8394.8	7584.1	7099.2	7004.5	7803.8	8875.9	8978.2
37.5°	5171.0	5159.6	5280.8	5530.9	6095.3	5977.9	5951.4	6159.7	7239.4	7284.8
40°	4261.8	4246.6	4242.9	4038.3	3898.1	4970.2	4898.2	4773.2	5708.9	5799.8
42.5°	3436.0	3451.1	3462.5	3015.5	2810.9	3833.7	3792.1	3663.3	4477.7	4583.8
45°	2697.2	2693.5	2716.2	2246.4	2189.6	2451.0	2833.6	2731.3	3379.1	3492.8
47.5°	1397.9	1447.1	1754.0	1738.8	1765.3	1738.8	2144.2	2117.6	2541.9	2723.8
50°	939.5	954.6	981.2	984.9	1390.3	1280.4	1454.7	1647.9	1780.5	2060.8
52.5°	727.3	738.7	670.5	628.9	852.4	947.1	954.6	1140.3	1242.6	1526.7
55°	405.3	454.6	488.7	492.5	469.7	700.8	697.0	844.8	924.3	1113.8
57.5°	53.0	64.4	98.5	318.2	314.4	390.2	488.7	613.7	659.2	814.5
60°	3.8	7.6	11.4	49.2	208.4	227.3	333.4	382.6	458.4	572.0
62.5°	0.0	0.0	3.8	11.4	41.7	132.6	174.3	200.8	269.0	375.0
65°	0.0	0.0	3.8	7.6	15.2	49.2	68.2	109.9	159.1	231.1
67.5°	0.0	0.0	3.8	7.6	11.4	18.9	30.3	49.2	83.3	140.2
70°	0.0	0.0	3.8	7.6	11.4	15.2	22.7	30.3	45.5	75.8
72.5°	0.0	0.0	3.8	3.8	7.6	18.9	18.9	22.7	30.3	41.7
75°	0.0	0.0	3.8	7.6	11.4	18.9	18.9	18.9	22.7	26.5
77.5°	0.0	0.0	3.8	7.6	11.4	18.9	15.2	18.9	18.9	18.9
80°	0.0	0.0	3.8	7.6	11.4	18.9	22.7	18.9	15.2	15.2
82.5°	0.0	0.0	3.8	11.4	11.4	26.5	26.5	26.5	11.4	11.4
85°	0.0	0.0	7.6	11.4	18.9	30.3	30.3	22.7	11.4	7.6
87.5°	0.0	0.0	3.8	7.6	7.6	15.2	22.7	18.9	7.6	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P638739

CATALOG NUMBER: EPH-VN-04-E-740-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
35234.7	0°	35234.7	35234.7	35234.7	35234.7	35234.7	35234.7	35234.7	35234.7	35234.7
34905.1	2.5°	35185.4	35090.7	35268.8	35291.5	35215.7	35121.0	34901.3	34882.4	34499.8
34132.3	5°	34518.7	34363.4	34477.0	34552.8	34526.3	34424.0	34333.1	34249.7	33905.0
32878.4	7.5°	33276.2	33219.3	33272.4	33329.2	33439.0	33329.2	33291.3	33204.2	32863.2
31643.4	10°	31897.2	31791.2	31991.9	31965.4	31935.1	31904.8	31745.7	31760.8	31359.3
29961.4	12.5°	30203.9	30025.8	30219.0	30241.8	30219.0	30112.9	29934.9	30010.7	29643.2
27688.5	15°	27927.1	27908.2	28048.3	28139.3	28203.7	28090.0	28029.4	28067.3	27847.6
24763.9	17.5°	25131.4	25377.6	25836.0	25991.3	25995.1	26112.5	26078.4	26033.0	25870.1
21524.9	20°	21843.2	22316.7	23021.3	23744.9	23953.2	23854.7	23809.3	23892.6	23650.2
18483.0	22.5°	18808.8	19214.1	20032.4	21089.3	21699.2	21759.8	21748.5	21676.5	21581.8
16047.1	25°	16232.7	16592.6	17376.8	18342.8	19513.4	19687.6	19695.2	19672.5	19589.1
13838.5	27.5°	14058.3	14493.9	14925.8	15789.5	17035.8	17755.6	17664.7	17638.2	17607.9
11974.7	30°	12088.4	12637.7	13043.0	13580.9	14698.5	15672.1	15766.8	15721.3	15649.3
10432.9	32.5°	10527.6	10853.4	11368.6	11732.3	12535.4	13637.8	14001.4	13967.3	13902.9
9042.6	35°	9171.4	9300.2	9705.5	10110.9	10645.0	11713.3	12251.3	12175.5	12164.1
7368.2	37.5°	7553.8	7985.7	8209.2	8618.3	8993.4	9823.0	10565.5	10531.4	10535.2
5924.9	40°	6099.1	6349.1	6792.4	7137.1	7481.8	8088.0	8913.8	8936.5	8928.9
4587.6	42.5°	4682.3	4924.7	5390.7	5765.7	6072.6	6447.6	7235.6	7262.1	7296.2
3572.3	45°	3655.7	3811.0	4151.9	4542.1	4867.9	5095.2	5693.8	5864.2	5868.0
2769.2	47.5°	2837.4	3015.5	3257.9	3632.9	3951.2	4114.1	4549.7	4780.8	4769.4
2125.2	50°	2227.5	2390.4	2587.4	2882.9	3227.6	3356.4	3678.4	3905.7	3894.3
1602.4	52.5°	1704.7	1913.1	2087.3	2314.6	2651.8	2761.6	2992.7	3254.1	3216.2
1174.4	55°	1291.8	1503.9	1666.8	1856.3	2163.1	2303.3	2462.4	2670.7	2678.3
909.2	57.5°	973.6	1193.3	1341.0	1534.2	1765.3	1920.7	2041.9	2265.4	2261.6
621.3	60°	697.0	886.5	1064.5	1265.3	1443.3	1621.4	1704.7	1916.9	1924.4
439.4	62.5°	503.8	681.9	852.4	1026.6	1185.7	1360.0	1435.8	1602.4	1625.2
287.9	65°	352.3	477.3	674.3	806.9	984.9	1113.8	1212.2	1356.2	1382.7
170.5	67.5°	227.3	344.7	534.1	651.6	814.5	924.3	1026.6	1140.3	1174.4
109.9	70°	136.4	261.4	397.8	522.8	670.5	769.0	867.5	966.0	984.9
53.0	72.5°	87.1	181.8	287.9	424.3	537.9	644.0	731.1	803.1	746.3
34.1	75°	49.2	125.0	227.3	333.4	435.7	537.9	609.9	647.8	519.0
22.7	77.5°	30.3	90.9	185.6	269.0	337.2	431.9	477.3	500.1	371.3
15.2	80°	18.9	68.2	155.3	219.7	219.7	318.2	371.3	390.2	269.0
11.4	82.5°	15.2	49.2	121.2	166.7	147.7	238.7	291.7	295.5	189.4
7.6	85°	11.4	37.9	75.8	109.9	102.3	166.7	170.5	189.4	125.0
7.6	87.5°	7.6	22.7	45.5	64.4	56.8	79.6	90.9	102.3	68.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
35234.7
34200.5
33628.5
32791.3
31222.9
29537.1
27582.4
25627.6
23475.9
21399.9
19308.8
17429.8
15558.4
13732.5
12039.1
10414.0
8796.4
7182.6
5769.5
4727.8
3894.3
3220.0
2678.3
2254.0
1905.5
1617.6
1375.1
1170.6
969.8
693.3
492.5
348.5
250.0
174.3
113.6
60.6
0.0

(END OF REPORT)