

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: P638760

Luminaire Tested: **EPH-VN-08-D-930-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638760
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-D-930-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (128) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30084.6 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 488.3
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

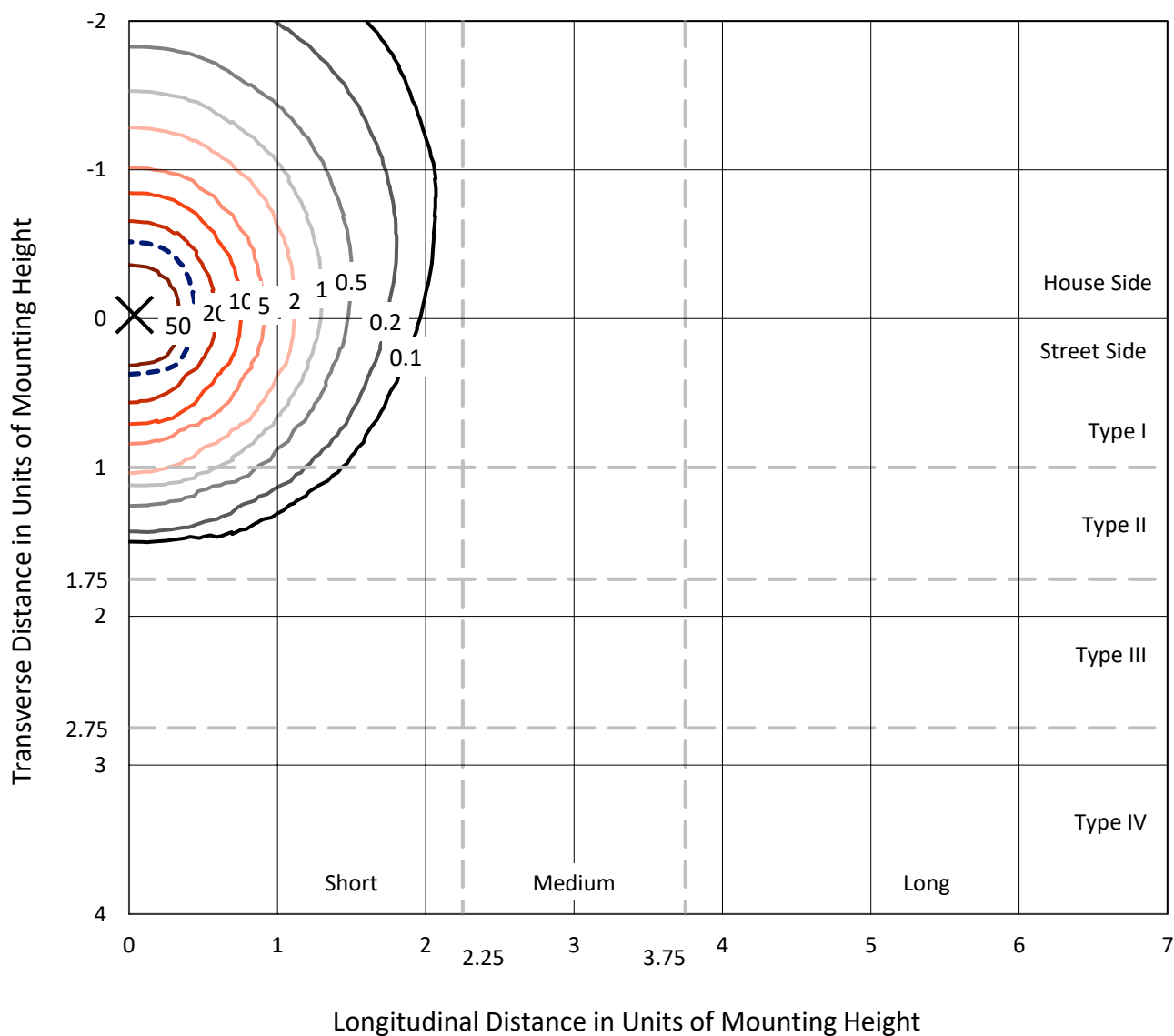


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

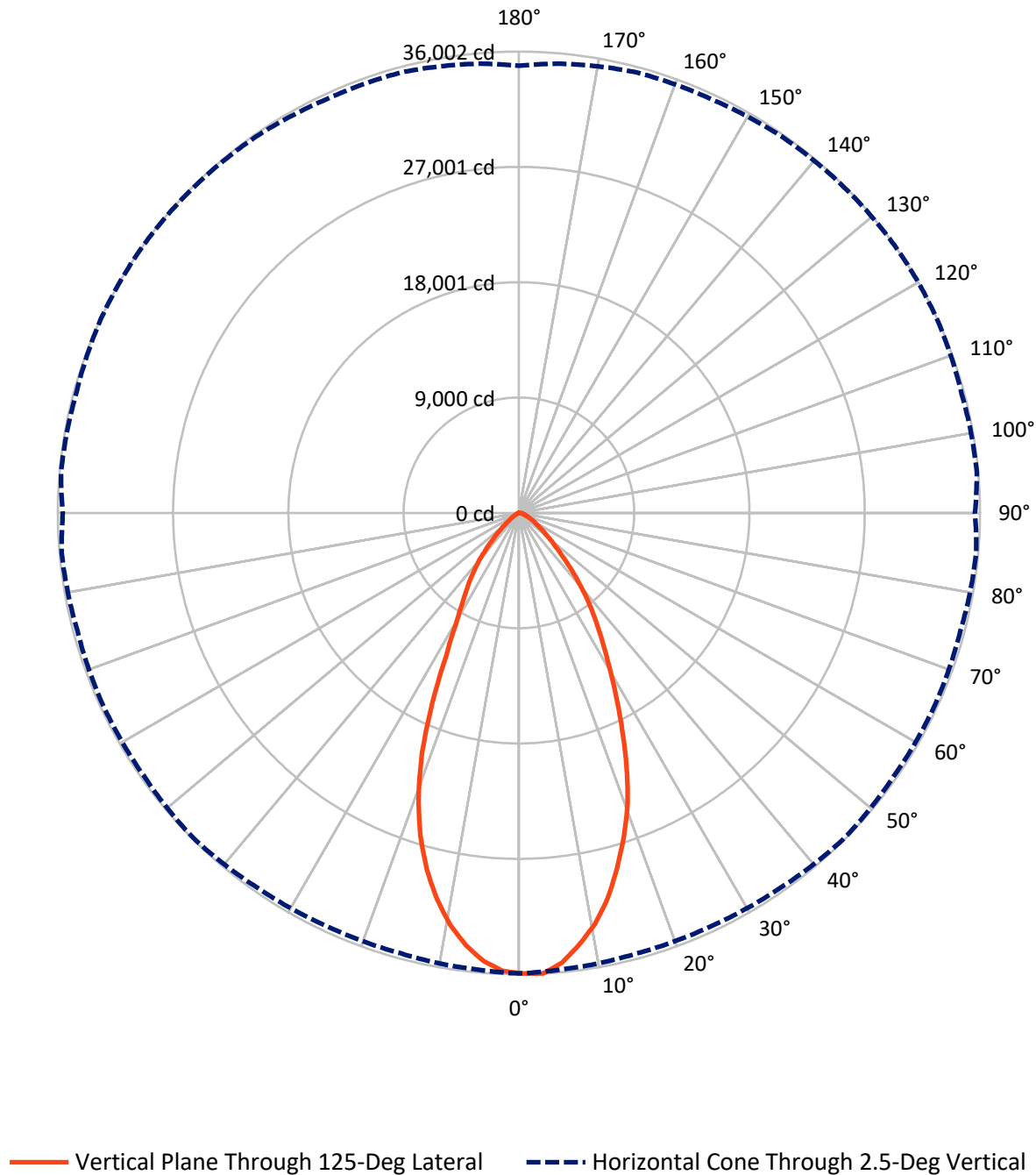
--- 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 89.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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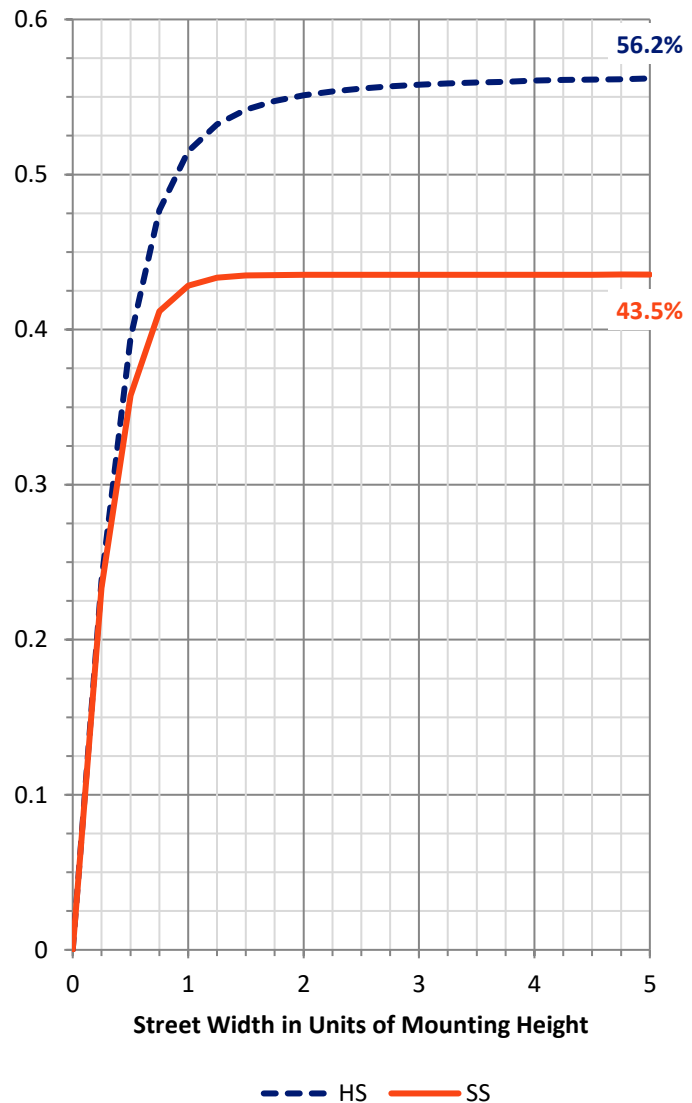
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17071.2	0.0	17071.2
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	13013.4	0.0	13013.4
	% Fixture	43.3	0.0	43.3
Total	Lumens	30084.6	0.0	30084.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3263.8	10.8
10°-20°	7780.2	25.9
20°-30°	7924.0	26.3
30°-40°	5908.9	19.6
40°-50°	3087.0	10.3
50°-60°	1298.4	4.3
60°-70°	530.3	1.8
70°-80°	223.2	0.7
80°-90°	68.8	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°	30084.6	100.0
0°-180°	30084.6	100.0

Coefficient of Utilization



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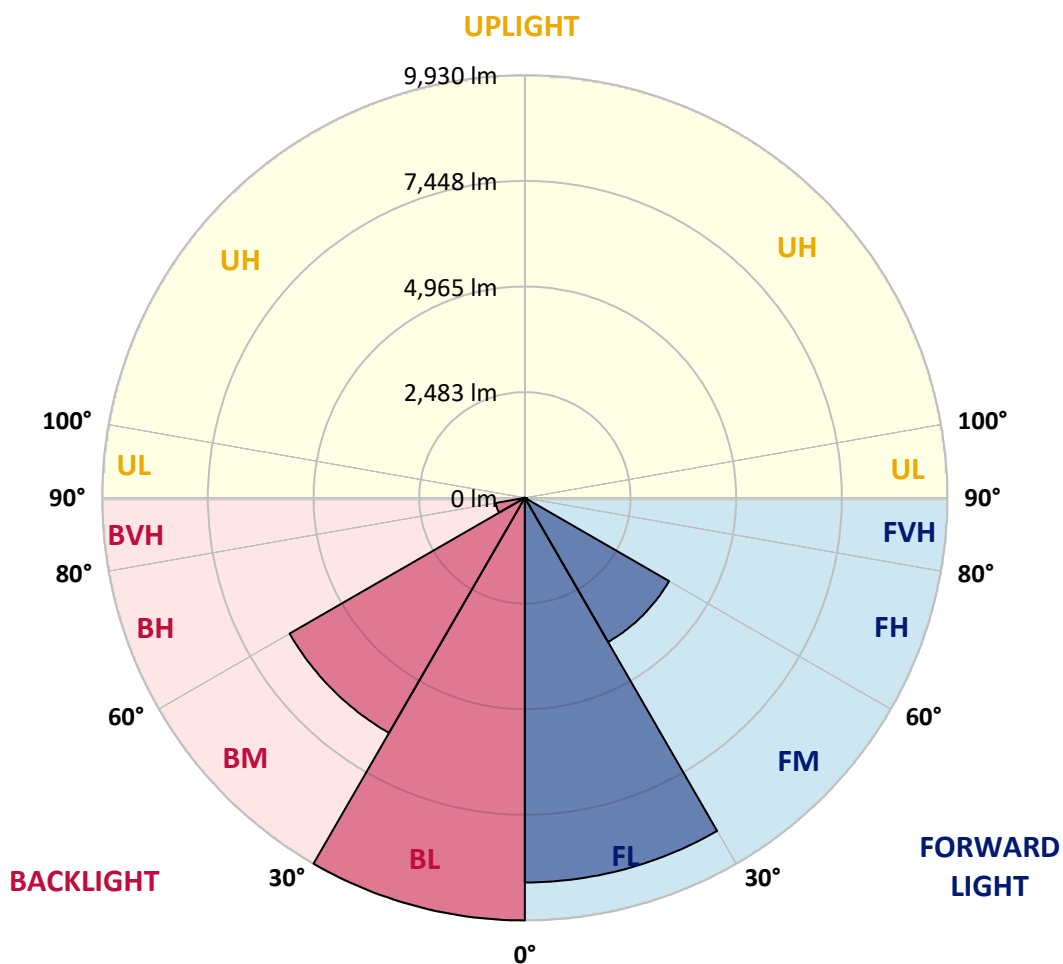
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9037.8	30.0			
FM	(30°-60°)	3912.6	13.0			
FH	(60°-80°)	56.6	0.2			G0/660
FVH	(80°-90°)	6.4	0.0			G0/10
BL	(0°-30°)	9930.3	33.0	B5		
BM	(30°-60°)	6381.7	21.2	B4/8500		
BH	(60°-80°)	696.8	2.3	B2/1000		G2/1000
BVH	(80°-90°)	62.4	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°	35943.7	35943.7	35943.7	35943.7	35943.7	35943.7	35943.7	35943.7	35943.7	35943.7
2.5°	35947.6	35800.8	35592.1	35572.8	35681.0	35916.7	35766.0	35773.7	35681.0	35839.4
5°	35383.4	35244.3	35101.3	34911.9	35070.4	35170.8	35093.6	35008.5	34888.7	35043.3
7.5°	34316.8	34239.5	34027.0	33941.9	34038.5	34150.6	33984.4	33961.3	33795.1	33996.0
10°	32686.0	32655.1	32446.4	32396.1	32481.2	32651.2	32577.8	32562.3	32458.0	32438.6
12.5°	30993.3	30873.5	30614.6	30599.1	30726.7	30981.7	30784.6	30595.3	30653.2	30703.5
15°	26634.2	26506.6	27148.1	28156.8	28686.2	28666.9	28724.9	28496.9	28427.3	28450.5
17.5°	21173.6	20957.2	21189.1	22750.3	25266.1	26726.9	26325.0	25834.2	25571.4	25397.5
20°	18275.2	18286.8	18244.3	18646.2	20215.2	23546.4	23449.8	22503.0	22159.1	22016.1
22.5°	16513.0	16447.3	16354.6	16482.1	16903.3	18858.8	20168.8	19299.3	19179.5	19021.1
25°	14785.6	14785.6	14673.5	14801.0	14920.8	14947.9	16261.8	16617.4	16385.5	16385.5
27.5°	13290.0	13212.7	13162.5	13220.5	13062.0	12300.7	12466.9	14287.1	14128.6	14032.0
30°	11806.1	11782.9	11697.9	11775.1	11187.7	10329.8	9982.0	12057.3	12223.4	12188.6
32.5°	9746.3	9839.0	10217.7	10337.5	9332.8	8641.0	8308.7	10009.1	10673.8	10646.7
35°	6623.8	6701.0	7133.9	8563.7	7736.7	7242.1	7145.5	7960.9	9054.5	9158.9
37.5°	5275.0	5263.5	5387.1	5642.2	6218.0	6098.2	6071.1	6283.7	7385.1	7431.4
40°	4347.6	4332.1	4328.2	4119.6	3976.6	5070.2	4996.8	4869.3	5823.8	5916.6
42.5°	3505.1	3520.6	3532.2	3076.1	2867.5	3910.9	3868.4	3737.0	4567.8	4676.0
45°	2751.5	2747.7	2770.8	2291.7	2233.7	2500.3	2890.6	2786.3	3447.1	3563.1
47.5°	1426.0	1476.2	1789.3	1773.8	1800.9	1773.8	2187.3	2160.3	2593.1	2778.6
50°	958.4	973.9	1000.9	1004.8	1418.3	1306.2	1484.0	1681.1	1816.3	2102.3
52.5°	742.0	753.6	684.0	641.5	869.5	966.1	973.9	1163.2	1267.6	1557.4
55°	413.5	463.7	498.5	502.4	479.2	714.9	711.1	861.8	942.9	1136.2
57.5°	54.1	65.7	100.5	324.6	320.8	398.0	498.5	626.0	672.4	830.9
60°	3.9	7.7	11.6	50.2	212.5	231.9	340.1	390.3	467.6	583.5
62.5°	0.0	0.0	3.9	11.6	42.5	135.3	177.8	204.8	274.4	382.6
65°	0.0	0.0	3.9	7.7	15.5	50.2	69.6	112.1	162.3	235.7
67.5°	0.0	0.0	3.9	7.7	11.6	19.3	30.9	50.2	85.0	143.0
70°	0.0	0.0	3.9	7.7	11.6	15.5	23.2	30.9	46.4	77.3
72.5°	0.0	0.0	3.9	3.9	7.7	19.3	19.3	23.2	30.9	42.5
75°	0.0	0.0	3.9	7.7	11.6	19.3	19.3	19.3	23.2	27.1
77.5°	0.0	0.0	3.9	7.7	11.6	19.3	15.5	19.3	19.3	19.3
80°	0.0	0.0	3.9	7.7	11.6	19.3	23.2	19.3	15.5	15.5
82.5°	0.0	0.0	3.9	11.6	11.6	27.1	27.1	27.1	11.6	11.6
85°	0.0	0.0	7.7	11.6	19.3	30.9	30.9	23.2	11.6	7.7
87.5°	0.0	0.0	3.9	7.7	7.7	15.5	23.2	19.3	7.7	3.9
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°
35943.7	0°	35943.7	35943.7	35943.7	35943.7	35943.7	35943.7	35943.7	35943.7	35943.7
35607.5	2.5°	35893.5	35796.9	35978.5	36001.7	35924.4	35827.8	35603.7	35584.3	35194.0
34819.2	5°	35213.4	35054.9	35170.8	35248.1	35221.1	35116.7	35024.0	34939.0	34587.3
33540.0	7.5°	33945.8	33887.8	33941.9	33999.9	34112.0	33999.9	33961.3	33872.4	33524.6
32280.2	10°	32539.1	32430.9	32635.7	32608.7	32577.8	32546.8	32384.5	32400.0	31990.4
30564.4	12.5°	30811.7	30630.1	30827.1	30850.3	30827.1	30718.9	30537.3	30614.6	30239.7
28245.7	15°	28489.1	28469.8	28612.8	28705.5	28771.2	28655.3	28593.5	28632.1	28408.0
25262.3	17.5°	25637.1	25888.3	26355.9	26514.4	26518.2	26638.0	26603.2	26556.9	26390.7
21958.1	20°	22282.7	22765.8	23484.6	24222.7	24435.3	24334.8	24288.4	24373.4	24126.1
18854.9	22.5°	19187.3	19600.8	20435.5	21513.7	22135.9	22197.7	22186.1	22112.7	22016.1
16370.0	25°	16559.4	16926.5	17726.5	18711.9	19906.1	20083.8	20091.6	20068.4	19983.3
14117.0	27.5°	14341.2	14785.6	15226.1	16107.3	17378.7	18112.9	18020.2	17993.1	17962.2
12215.7	30°	12331.6	12892.0	13305.5	13854.2	14994.3	15987.5	16084.1	16037.7	15964.3
10642.8	32.5°	10739.5	11071.8	11597.4	11968.4	12787.6	13912.2	14283.2	14248.4	14182.7
9224.6	35°	9356.0	9487.4	9900.9	10314.4	10859.3	11949.0	12497.8	12420.5	12408.9
7516.5	37.5°	7705.8	8146.4	8374.4	8791.7	9174.3	10020.7	10778.1	10743.3	10747.2
6044.1	40°	6221.9	6476.9	6929.1	7280.7	7632.4	8250.7	9093.2	9116.4	9108.6
4679.9	42.5°	4776.5	5023.9	5499.2	5881.8	6194.8	6577.4	7381.2	7408.3	7443.0
3644.2	45°	3729.2	3887.7	4235.5	4633.5	4965.9	5197.8	5808.3	5982.3	5986.1
2825.0	47.5°	2894.5	3076.1	3323.5	3706.1	4030.7	4196.9	4641.3	4877.0	4865.4
2168.0	50°	2272.3	2438.5	2639.5	2940.9	3292.6	3424.0	3752.4	3984.3	3972.7
1634.7	52.5°	1739.0	1951.6	2129.3	2361.2	2705.2	2817.2	3053.0	3319.6	3281.0
1198.0	55°	1317.8	1534.2	1700.4	1893.6	2206.6	2349.6	2511.9	2724.5	2732.2
927.5	57.5°	993.2	1217.3	1368.0	1565.1	1800.9	1959.3	2083.0	2311.0	2307.1
633.8	60°	711.1	904.3	1085.9	1290.7	1472.4	1654.0	1739.0	1955.4	1963.2
448.3	62.5°	514.0	695.6	869.5	1047.3	1209.6	1387.4	1464.6	1634.7	1657.9
293.7	65°	359.4	486.9	687.9	823.1	1004.8	1136.2	1236.6	1383.5	1410.5
173.9	67.5°	231.9	351.7	544.9	664.7	830.9	942.9	1047.3	1163.2	1198.0
112.1	70°	139.1	266.7	405.8	533.3	684.0	784.5	885.0	985.4	1004.8
54.1	72.5°	88.9	185.5	293.7	432.8	548.8	657.0	745.8	819.3	761.3
34.8	75°	50.2	127.5	231.9	340.1	444.4	548.8	622.2	660.8	529.4
23.2	77.5°	30.9	92.7	189.4	274.4	343.9	440.6	486.9	510.1	378.7
15.5	80°	19.3	69.6	158.4	224.1	224.1	324.6	378.7	398.0	274.4
11.6	82.5°	15.5	50.2	123.7	170.0	150.7	243.5	297.6	301.4	193.2
7.7	85°	11.6	38.6	77.3	112.1	104.3	170.0	173.9	193.2	127.5
7.7	87.5°	7.7	23.2	46.4	65.7	58.0	81.2	92.7	104.3	69.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
35943.7
34888.7
34305.2
33451.1
31851.2
30131.5
28137.5
26143.4
23948.3
21830.6
19697.4
17780.6
15871.5
14008.8
12281.4
10623.5
8973.4
7327.1
5885.6
4822.9
3972.7
3284.8
2732.2
2299.4
1943.8
1650.1
1402.8
1194.1
989.3
707.2
502.4
355.5
255.1
177.8
115.9
61.8
0.0

(END OF REPORT)