

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: P638765

Luminaire Tested: **EPH-VN-07-E-935-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638765
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-935-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31606.8 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

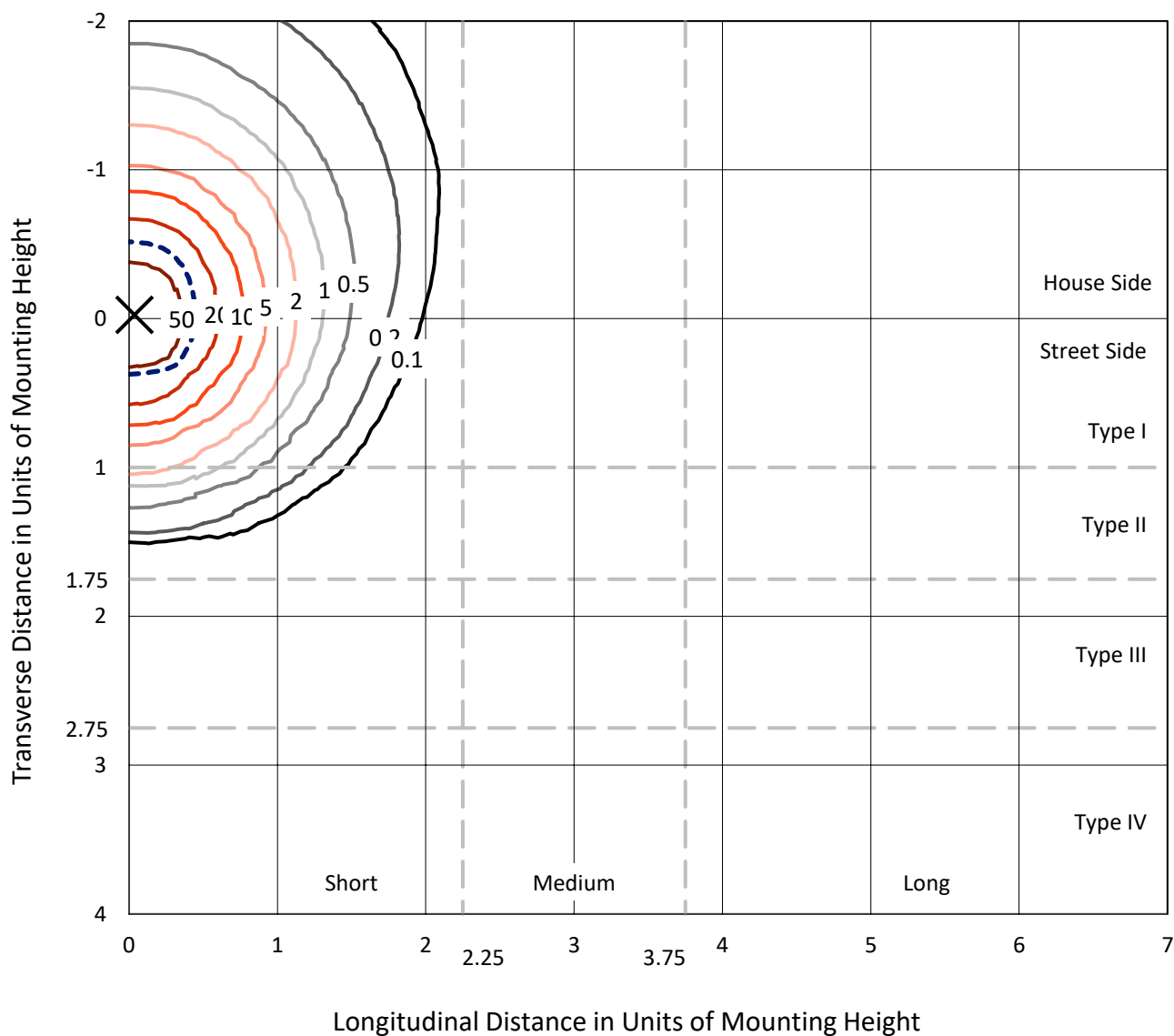
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

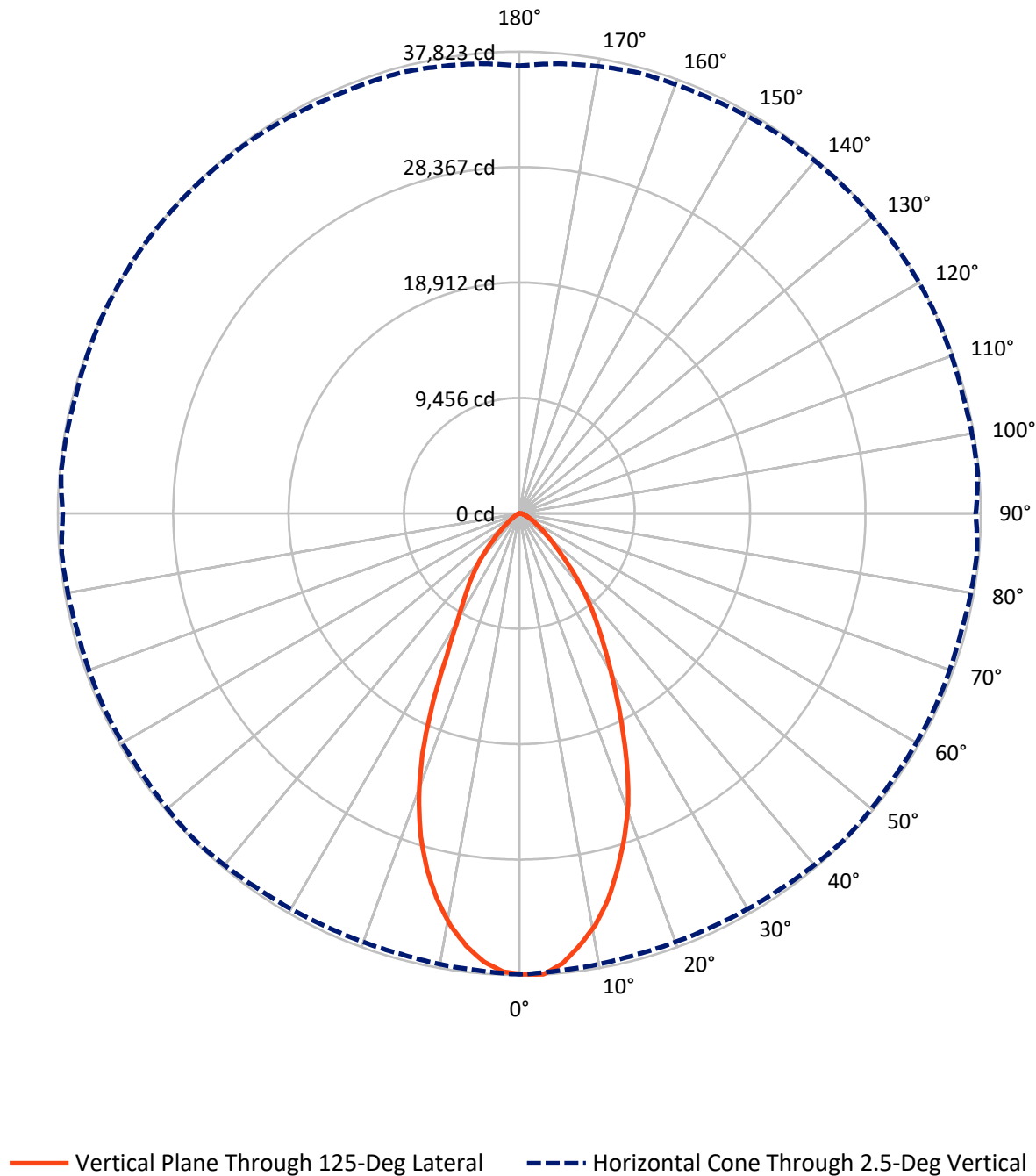
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 94.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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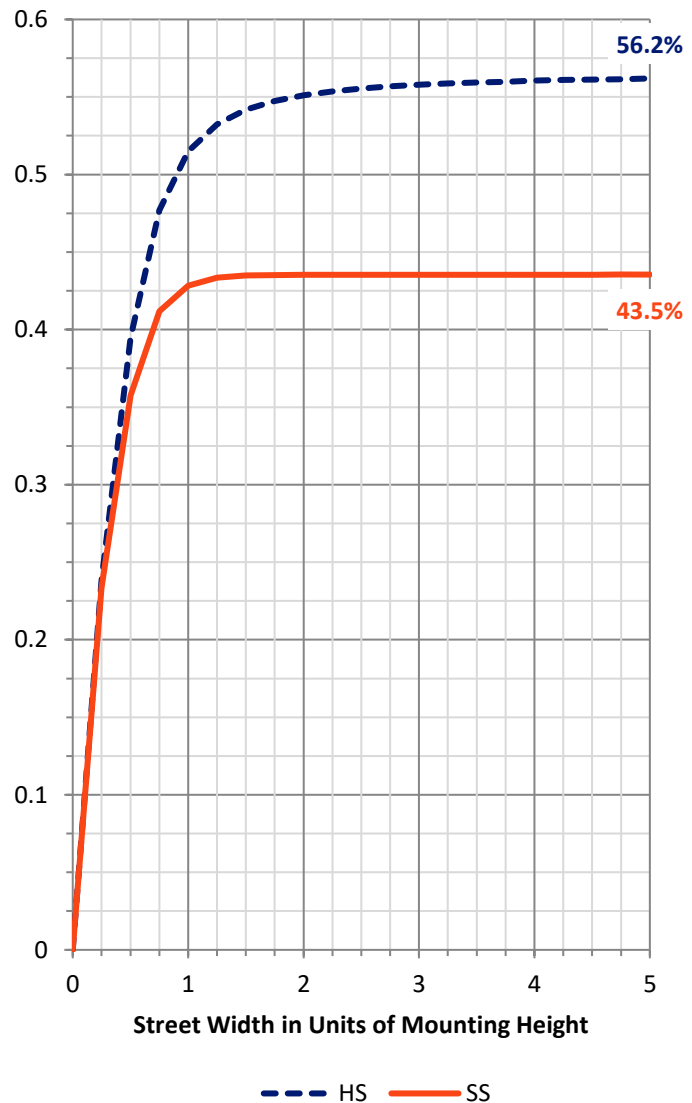
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17934.9	0.0	17934.9
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	13671.8	0.0	13671.8
	% Fixture	43.3	0.0	43.3
Total	Lumens	31606.8	0.0	31606.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3429.0	10.8
10°-20°	8173.9	25.9
20°-30°	8325.0	26.3
30°-40°	6207.9	19.6
40°-50°	3243.2	10.3
50°-60°	1364.1	4.3
60°-70°	557.1	1.8
70°-80°	234.4	0.7
80°-90°	72.2	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°	31606.8	100.0
0°-180°	31606.8	100.0

Coefficient of Utilization



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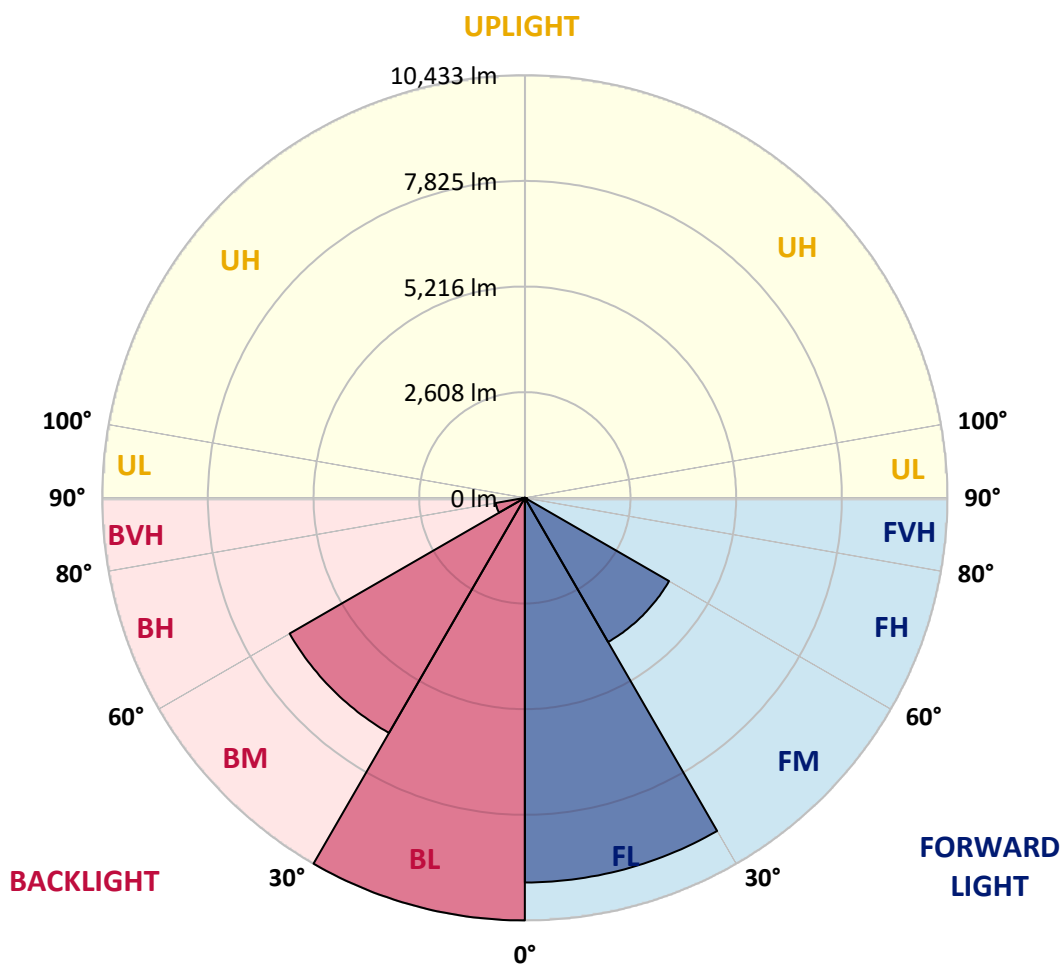
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9495.1	30.0			
FM	(30°-60°)	4110.6	13.0			
FH	(60°-80°)	59.5	0.2			G0/660
FVH	(80°-90°)	6.7	0.0			G0/10
BL	(0°-30°)	10432.8	33.0	B5		
BM	(30°-60°)	6704.6	21.2	B4/8500		
BH	(60°-80°)	732.1	2.3	B2/1000		G2/1000
BVH	(80°-90°)	65.5	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°	37762.4	37762.4	37762.4	37762.4	37762.4	37762.4	37762.4	37762.4	37762.4	37762.4
2.5°	37766.5	37612.2	37393.0	37372.7	37486.3	37734.0	37575.7	37583.8	37486.3	37652.8
5°	37173.7	37027.6	36877.3	36678.4	36844.9	36950.4	36869.2	36779.9	36654.0	36816.4
7.5°	36053.2	35972.0	35748.6	35659.3	35760.8	35878.6	35704.0	35679.6	35505.0	35716.2
10°	34339.8	34307.3	34088.1	34035.3	34124.6	34303.3	34226.1	34209.9	34100.3	34080.0
12.5°	32561.5	32435.7	32163.6	32147.4	32281.4	32549.3	32342.3	32143.3	32204.2	32257.0
15°	27981.8	27847.8	28521.8	29581.4	30137.7	30117.4	30178.3	29938.7	29865.7	29890.0
17.5°	22245.0	22017.6	22261.2	23901.5	26544.5	28079.2	27657.0	27141.4	26865.3	26682.6
20°	19199.9	19212.1	19167.4	19589.7	21238.1	24737.8	24636.3	23641.6	23280.3	23130.0
22.5°	17348.5	17279.5	17182.1	17316.1	17758.6	19813.0	21189.3	20275.8	20150.0	19983.5
25°	15533.7	15533.7	15416.0	15550.0	15675.8	15704.2	17084.6	17458.2	17214.6	17214.6
27.5°	13962.5	13881.3	13828.5	13889.4	13722.9	12923.1	13097.7	15010.0	14843.5	14742.0
30°	12403.4	12379.1	12289.7	12370.9	11753.8	10852.5	10487.1	12667.3	12841.9	12805.4
32.5°	10239.4	10336.9	10734.7	10860.6	9805.0	9078.2	8729.1	10515.5	11213.8	11185.4
35°	6958.9	7040.1	7494.8	8997.0	8128.2	7608.5	7507.0	8363.7	9512.7	9622.3
37.5°	5542.0	5529.8	5659.7	5927.7	6532.6	6406.7	6378.3	6601.6	7758.7	7807.5
40°	4567.5	4551.3	4547.2	4328.0	4177.8	5326.8	5249.6	5115.6	6118.5	6215.9
42.5°	3682.5	3698.7	3710.9	3231.8	3012.5	4108.8	4064.1	3926.1	4799.0	4912.6
45°	2890.7	2886.7	2911.0	2407.6	2346.7	2626.8	3036.9	2927.3	3621.6	3743.4
47.5°	1498.2	1550.9	1879.8	1863.6	1892.0	1863.6	2298.0	2269.6	2724.3	2919.2
50°	1006.9	1023.1	1051.6	1055.6	1490.0	1372.3	1559.1	1766.1	1908.2	2208.7
52.5°	779.5	791.7	718.6	674.0	913.5	1015.0	1023.1	1222.1	1331.7	1636.2
55°	434.4	487.2	523.7	527.8	503.4	751.1	747.0	905.4	990.6	1193.7
57.5°	56.8	69.0	105.6	341.0	337.0	418.2	523.7	657.7	706.4	872.9
60°	4.1	8.1	12.2	52.8	223.3	243.6	357.3	410.1	491.3	613.1
62.5°	0.0	0.0	4.1	12.2	44.7	142.1	186.8	215.2	288.3	401.9
65°	0.0	0.0	4.1	8.1	16.2	52.8	73.1	117.7	170.5	247.7
67.5°	0.0	0.0	4.1	8.1	12.2	20.3	32.5	52.8	89.3	150.2
70°	0.0	0.0	4.1	8.1	12.2	16.2	24.4	32.5	48.7	81.2
72.5°	0.0	0.0	4.1	4.1	8.1	20.3	20.3	24.4	32.5	44.7
75°	0.0	0.0	4.1	8.1	12.2	20.3	20.3	20.3	24.4	28.4
77.5°	0.0	0.0	4.1	8.1	12.2	20.3	16.2	20.3	20.3	20.3
80°	0.0	0.0	4.1	8.1	12.2	20.3	24.4	20.3	16.2	16.2
82.5°	0.0	0.0	4.1	12.2	12.2	28.4	28.4	28.4	12.2	12.2
85°	0.0	0.0	8.1	12.2	20.3	32.5	32.5	24.4	12.2	8.1
87.5°	0.0	0.0	4.1	8.1	8.1	16.2	24.4	20.3	8.1	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°
37762.4	0°	37762.4	37762.4	37762.4	37762.4	37762.4	37762.4	37762.4	37762.4	37762.4
37409.2	2.5°	37709.6	37608.1	37799.0	37823.3	37742.1	37640.6	37405.1	37384.8	36974.8
36581.0	5°	36995.1	36828.6	36950.4	37031.6	37003.2	36893.6	36796.1	36706.8	36337.4
35237.1	7.5°	35663.4	35602.5	35659.3	35720.2	35838.0	35720.2	35679.6	35586.2	35220.8
33913.5	10°	34185.5	34071.9	34287.0	34258.6	34226.1	34193.7	34023.1	34039.4	33609.0
32110.9	12.5°	32370.7	32179.9	32386.9	32411.3	32386.9	32273.3	32082.4	32163.6	31769.8
29674.8	15°	29930.6	29910.3	30060.5	30158.0	30227.0	30105.2	30040.2	30080.8	29845.4
26540.5	17.5°	26934.3	27198.2	27689.5	27855.9	27860.0	27985.9	27949.3	27900.6	27726.0
23069.1	20°	23410.2	23917.7	24672.9	25448.3	25671.6	25566.1	25517.3	25606.7	25346.8
19808.9	22.5°	20158.1	20592.5	21469.5	22602.2	23255.9	23320.9	23308.7	23231.5	23130.0
17198.3	25°	17397.3	17783.0	18623.4	19658.7	20913.3	21100.0	21108.1	21083.8	20994.5
14831.3	27.5°	15066.8	15533.7	15996.6	16922.2	18258.0	19029.4	18932.0	18903.5	18871.1
12833.8	30°	12955.6	13544.3	13978.7	14555.2	15753.0	16796.4	16897.9	16849.2	16772.0
11181.3	32.5°	11282.9	11632.0	12184.2	12573.9	13434.7	14616.1	15005.9	14969.4	14900.3
9691.3	35°	9829.4	9967.4	10401.8	10836.2	11408.7	12553.6	13130.2	13049.0	13036.8
7896.8	37.5°	8095.7	8558.6	8798.1	9236.6	9638.5	10527.7	11323.5	11286.9	11291.0
6349.9	40°	6536.7	6804.6	7279.7	7649.1	8018.6	8668.2	9553.3	9577.6	9569.5
4916.7	42.5°	5018.2	5278.1	5777.4	6179.4	6508.2	6910.2	7754.7	7783.1	7819.6
3828.6	45°	3917.9	4084.4	4449.8	4868.0	5217.2	5460.8	6102.2	6284.9	6289.0
2967.9	47.5°	3041.0	3231.8	3491.6	3893.6	4234.6	4409.2	4876.1	5123.8	5111.6
2277.7	50°	2387.3	2561.9	2773.0	3089.7	3459.2	3597.2	3942.3	4185.9	4173.7
1717.4	52.5°	1827.0	2050.3	2237.1	2480.7	2842.0	2959.8	3207.4	3487.6	3447.0
1258.6	55°	1384.5	1611.8	1786.4	1989.4	2318.3	2468.5	2639.0	2862.3	2870.4
974.4	57.5°	1043.4	1278.9	1437.3	1644.3	1892.0	2058.4	2188.4	2427.9	2423.8
665.8	60°	747.0	950.0	1140.9	1356.1	1546.9	1737.7	1827.0	2054.4	2062.5
471.0	62.5°	540.0	730.8	913.5	1100.3	1270.8	1457.6	1538.8	1717.4	1741.8
308.6	65°	377.6	511.6	722.7	864.8	1055.6	1193.7	1299.2	1453.5	1481.9
182.7	67.5°	243.6	369.5	572.5	698.3	872.9	990.6	1100.3	1222.1	1258.6
117.7	70°	146.2	280.1	426.3	560.3	718.6	824.2	929.7	1035.3	1055.6
56.8	72.5°	93.4	194.9	308.6	454.7	576.5	690.2	783.6	860.7	799.8
36.5	75°	52.8	134.0	243.6	357.3	466.9	576.5	653.7	694.3	556.2
24.4	77.5°	32.5	97.4	198.9	288.3	361.3	462.8	511.6	535.9	397.9
16.2	80°	20.3	73.1	166.5	235.5	235.5	341.0	397.9	418.2	288.3
12.2	82.5°	16.2	52.8	129.9	178.6	158.3	255.8	312.6	316.7	203.0
8.1	85°	12.2	40.6	81.2	117.7	109.6	178.6	182.7	203.0	134.0
8.1	87.5°	8.1	24.4	48.7	69.0	60.9	85.3	97.4	109.6	73.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
37762.4
36654.0
36041.0
35143.7
33462.8
31656.1
29561.1
27466.2
25160.1
22935.2
20694.0
18680.2
16674.6
14717.6
12902.8
11161.0
9427.4
7697.8
6183.4
5066.9
4173.7
3451.0
2870.4
2415.7
2042.2
1733.6
1473.8
1254.6
1039.4
743.0
527.8
373.5
268.0
186.8
121.8
65.0
0.0

(END OF REPORT)