

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: P638732

Luminaire Tested: **EPH-VN-03-E-735-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638732
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-735-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22432.7 lumens
Efficiency: N/A
Efficacy: 96.7 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



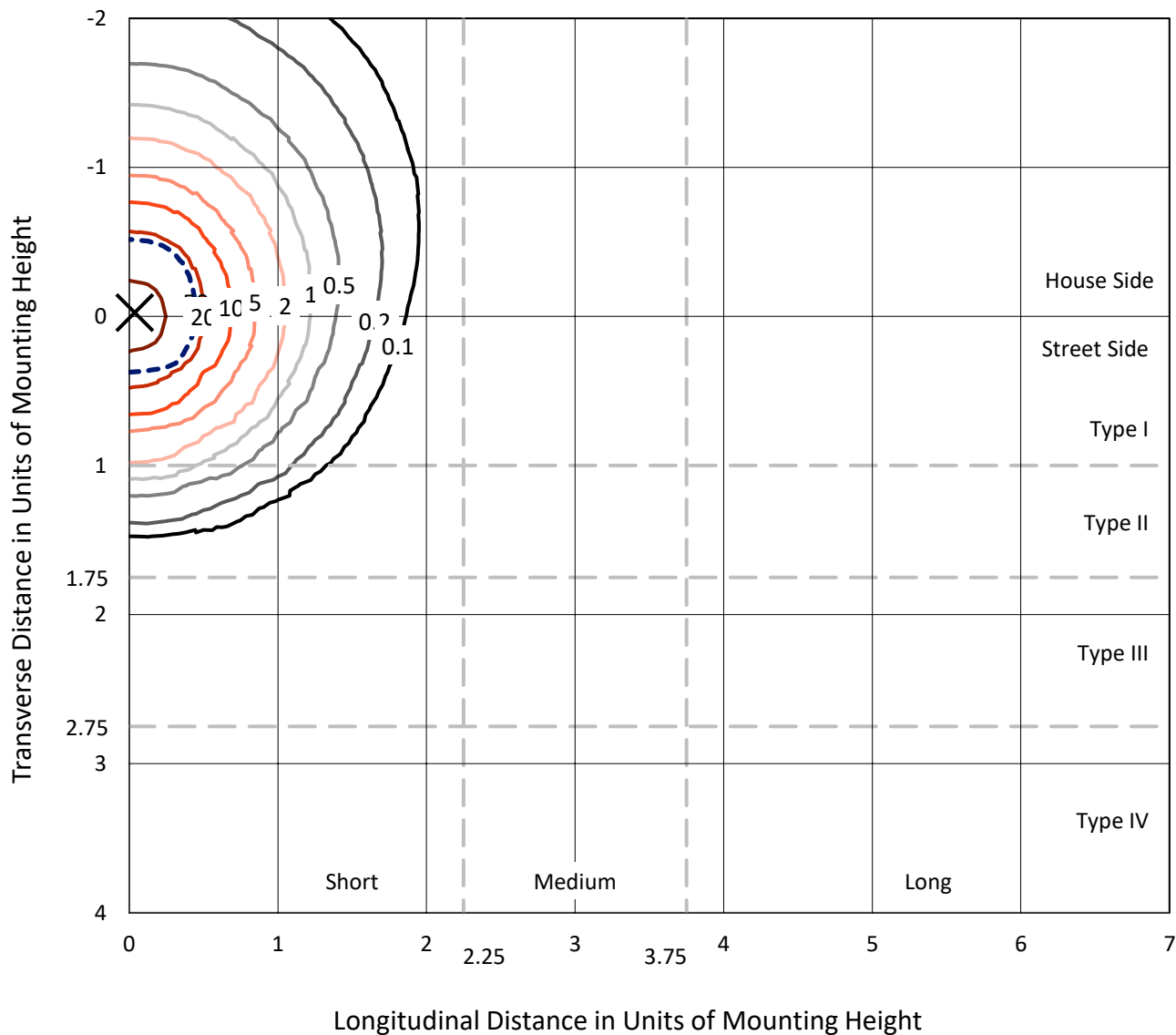
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

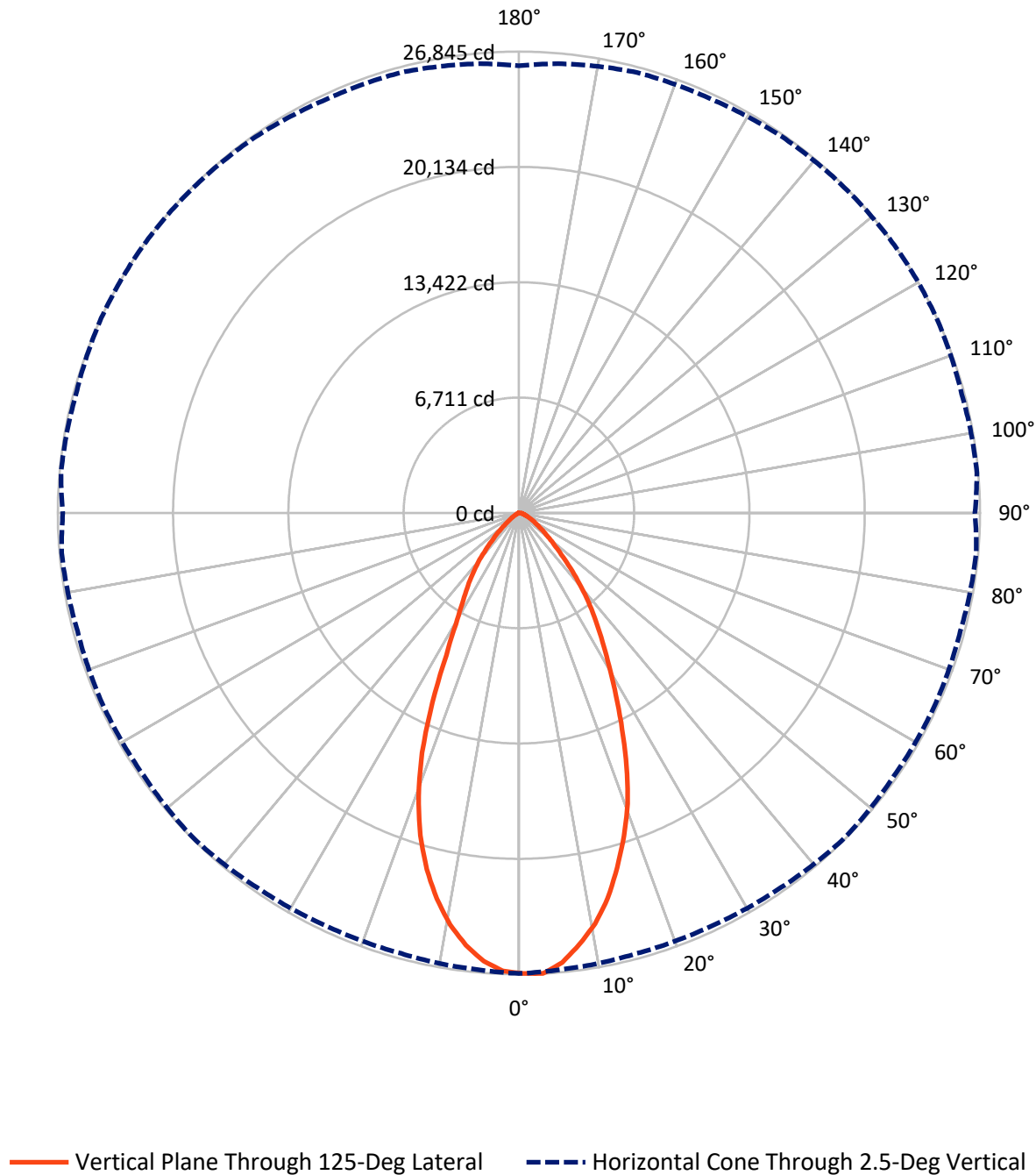


Based on 20 foot mounting height. Maximum calculated value = 67 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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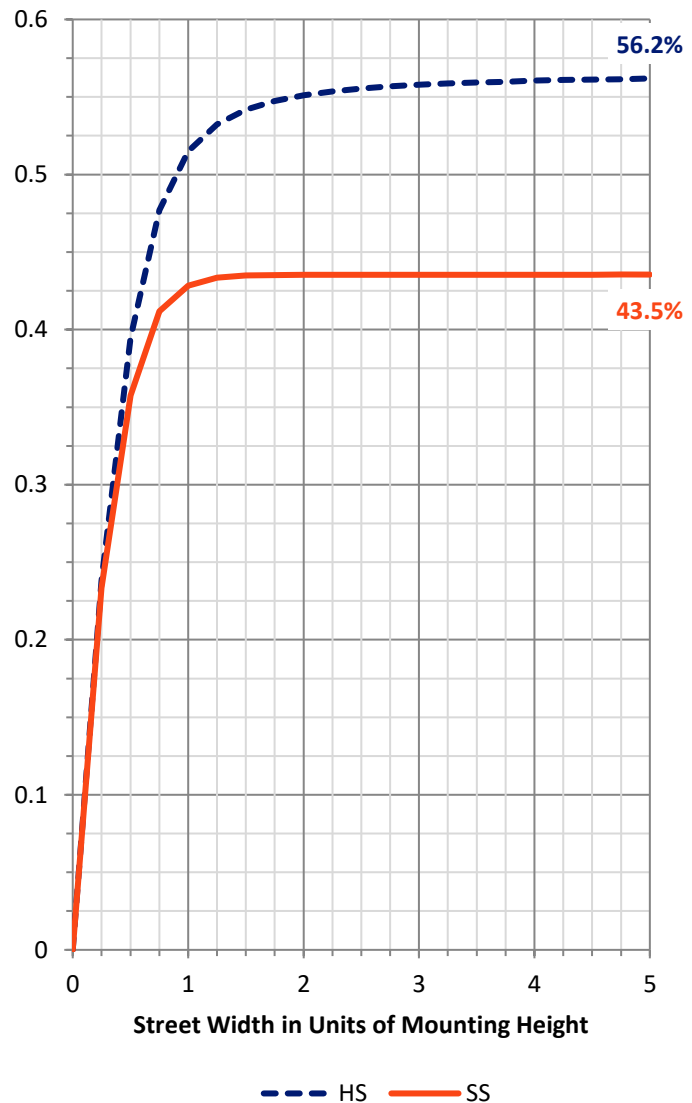
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12729.2	0.0	12729.2
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	9703.5	0.0	9703.5
	% Fixture	43.3	0.0	43.3
Total	Lumens	22432.7	0.0	22432.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2433.7	10.8
10°-20°	5801.4	25.9
20°-30°	5908.6	26.3
30°-40°	4406.0	19.6
40°-50°	2301.8	10.3
50°-60°	968.2	4.3
60°-70°	395.4	1.8
70°-80°	166.4	0.7
80°-90°	51.3	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°	22432.7	100.0
0°-180°	22432.7	100.0

Coefficient of Utilization



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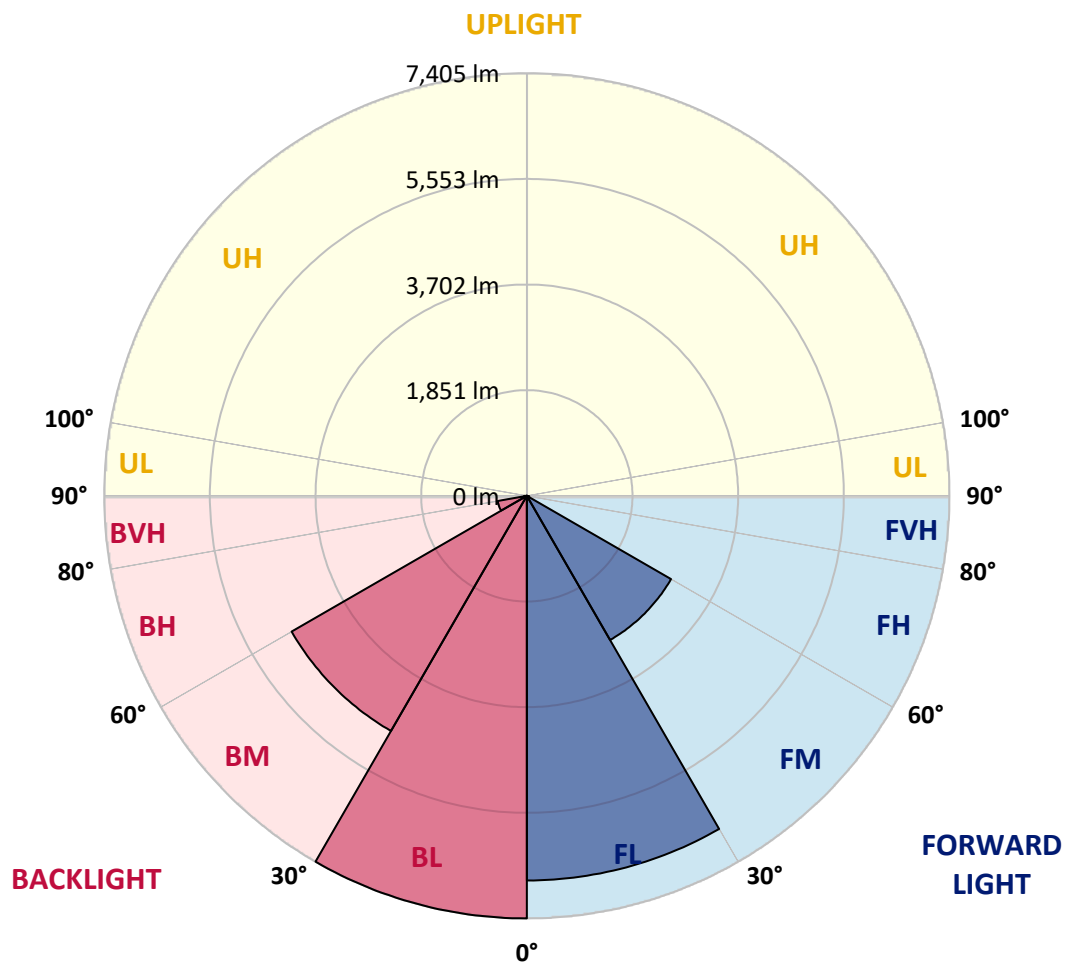
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6739.1	30.0			
FM	(30°-60°)	2917.5	13.0			
FH	(60°-80°)	42.2	0.2			G0/660
FVH	(80°-90°)	4.8	0.0			G0/10
BL	(0°-30°)	7404.6	33.0	B5		
BM	(30°-60°)	4758.5	21.2	B3/5000		
BH	(60°-80°)	519.6	2.3	B2/1000		G2/1000
BVH	(80°-90°)	46.5	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°	26801.6	26801.6	26801.6	26801.6	26801.6	26801.6	26801.6	26801.6	26801.6	26801.6
2.5°	26804.5	26695.0	26539.4	26525.0	26605.7	26781.4	26669.0	26674.8	26605.7	26723.8
5°	26383.8	26280.0	26173.4	26032.2	26150.4	26225.3	26167.7	26104.3	26014.9	26130.2
7.5°	25588.5	25530.8	25372.3	25308.9	25381.0	25464.5	25340.6	25323.3	25199.4	25349.3
10°	24372.4	24349.4	24193.8	24156.3	24219.7	24346.5	24291.7	24280.2	24202.4	24188.0
12.5°	23110.3	23021.0	22827.9	22816.4	22911.5	23101.6	22954.7	22813.5	22856.7	22894.2
15°	19859.9	19764.8	20243.1	20995.2	21390.0	21375.6	21418.8	21248.8	21196.9	21214.2
17.5°	15788.2	15626.8	15799.7	16963.9	18839.8	19929.0	19629.3	19263.4	19067.4	18937.8
20°	13627.0	13635.6	13604.0	13903.6	15073.6	17557.5	17485.4	16779.5	16523.0	16416.4
22.5°	12313.0	12264.0	12194.9	12289.9	12604.0	14062.1	15039.0	14390.6	14301.3	14183.1
25°	11024.9	11024.9	10941.4	11036.5	11125.8	11146.0	12125.7	12390.8	12217.9	12217.9
27.5°	9909.8	9852.1	9814.7	9857.9	9739.7	9172.1	9296.0	10653.2	10535.1	10463.0
30°	8803.2	8785.9	8722.6	8780.2	8342.2	7702.5	7443.1	8990.5	9114.4	9088.5
32.5°	7267.4	7336.5	7618.9	7708.2	6959.0	6443.2	6195.4	7463.3	7958.9	7938.8
35°	4939.0	4996.7	5319.4	6385.6	5768.9	5400.1	5328.0	5936.1	6751.5	6829.4
37.5°	3933.4	3924.7	4016.9	4207.1	4636.5	4547.1	4527.0	4685.5	5506.7	5541.3
40°	3241.8	3230.3	3227.4	3071.8	2965.1	3780.6	3725.9	3630.8	4342.5	4411.7
42.5°	2613.6	2625.1	2633.8	2293.7	2138.1	2916.2	2884.5	2786.5	3406.0	3486.7
45°	2051.7	2048.8	2066.1	1708.8	1665.6	1864.4	2155.4	2077.6	2570.4	2656.8
47.5°	1063.3	1100.8	1334.2	1322.6	1342.8	1322.6	1631.0	1610.8	1933.5	2071.9
50°	714.6	726.2	746.3	749.2	1057.5	974.0	1106.5	1253.5	1354.3	1567.6
52.5°	553.3	561.9	510.0	478.3	648.4	720.4	726.2	867.4	945.2	1161.3
55°	308.3	345.8	371.7	374.6	357.3	533.1	530.2	642.6	703.1	847.2
57.5°	40.3	49.0	74.9	242.1	239.2	296.8	371.7	466.8	501.4	619.5
60°	2.9	5.8	8.6	37.5	158.5	172.9	253.6	291.0	348.7	435.1
62.5°	0.0	0.0	2.9	8.6	31.7	100.9	132.6	152.7	204.6	285.3
65°	0.0	0.0	2.9	5.8	11.5	37.5	51.9	83.6	121.0	175.8
67.5°	0.0	0.0	2.9	5.8	8.6	14.4	23.1	37.5	63.4	106.6
70°	0.0	0.0	2.9	5.8	8.6	11.5	17.3	23.1	34.6	57.6
72.5°	0.0	0.0	2.9	2.9	5.8	14.4	14.4	17.3	23.1	31.7
75°	0.0	0.0	2.9	5.8	8.6	14.4	14.4	14.4	17.3	20.2
77.5°	0.0	0.0	2.9	5.8	8.6	14.4	11.5	14.4	14.4	14.4
80°	0.0	0.0	2.9	5.8	8.6	14.4	17.3	14.4	11.5	11.5
82.5°	0.0	0.0	2.9	8.6	8.6	20.2	20.2	20.2	8.6	8.6
85°	0.0	0.0	5.8	8.6	14.4	23.1	23.1	17.3	8.6	5.8
87.5°	0.0	0.0	2.9	5.8	5.8	11.5	17.3	14.4	5.8	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°
26801.6	0°	26801.6	26801.6	26801.6	26801.6	26801.6	26801.6	26801.6	26801.6	26801.6
26550.9	2.5°	26764.1	26692.1	26827.5	26844.8	26787.2	26715.2	26548.0	26533.6	26242.6
25963.1	5°	26257.0	26138.8	26225.3	26282.9	26262.7	26184.9	26115.8	26052.4	25790.2
25009.3	7.5°	25311.8	25268.6	25308.9	25352.2	25435.7	25352.2	25323.3	25257.1	24997.7
24069.9	10°	24262.9	24182.2	24335.0	24314.8	24291.7	24268.7	24147.7	24159.2	23853.7
22790.4	12.5°	22974.9	22839.4	22986.4	23003.7	22986.4	22905.7	22770.3	22827.9	22548.4
21061.5	15°	21243.0	21228.6	21335.2	21404.4	21453.4	21366.9	21320.8	21349.6	21182.5
18836.9	17.5°	19116.4	19303.7	19652.4	19770.5	19773.4	19862.7	19836.8	19802.2	19678.3
16373.2	20°	16615.2	16975.4	17511.4	18061.8	18220.2	18145.3	18110.7	18174.1	17989.7
14059.2	22.5°	14307.1	14615.4	15237.8	16041.8	16505.7	16551.8	16543.2	16488.4	16416.4
12206.4	25°	12347.6	12621.3	13217.8	13952.6	14843.0	14975.6	14981.3	14964.1	14900.7
10526.4	27.5°	10693.6	11024.9	11353.4	12010.4	12958.5	13506.0	13436.8	13416.6	13393.6
9108.7	30°	9195.1	9613.0	9921.3	10330.5	11180.5	11921.1	11993.1	11958.6	11903.8
7935.9	32.5°	8007.9	8255.7	8647.6	8924.3	9535.2	10373.7	10650.3	10624.4	10575.4
6878.3	35°	6976.3	7074.3	7382.6	7690.9	8097.2	8909.9	9319.0	9261.4	9252.8
5604.7	37.5°	5745.9	6074.4	6244.4	6555.6	6840.9	7471.9	8036.7	8010.8	8013.7
4506.8	40°	4639.3	4829.5	5166.7	5428.9	5691.1	6152.2	6780.4	6797.7	6791.9
3489.6	42.5°	3561.6	3746.1	4100.5	4385.8	4619.2	4904.5	5503.8	5524.0	5549.9
2717.3	45°	2780.7	2898.9	3158.2	3455.0	3702.8	3875.7	4331.0	4460.7	4463.6
2106.4	47.5°	2158.3	2293.7	2478.2	2763.4	3005.5	3129.4	3460.8	3636.6	3627.9
1616.6	50°	1694.4	1818.3	1968.1	2192.9	2455.1	2553.1	2798.0	2970.9	2962.3
1218.9	52.5°	1296.7	1455.2	1587.8	1760.6	2017.1	2100.7	2276.5	2475.3	2446.5
893.3	55°	982.6	1144.0	1267.9	1412.0	1645.4	1752.0	1873.0	2031.5	2037.3
691.6	57.5°	740.6	907.7	1020.1	1167.0	1342.8	1461.0	1553.2	1723.2	1720.3
472.6	60°	530.2	674.3	809.7	962.4	1097.9	1233.3	1296.7	1458.1	1463.8
334.3	62.5°	383.3	518.7	648.4	780.9	901.9	1034.5	1092.1	1218.9	1236.2
219.0	65°	268.0	363.1	512.9	613.8	749.2	847.2	922.1	1031.6	1051.8
129.7	67.5°	172.9	262.2	406.3	495.6	619.5	703.1	780.9	867.4	893.3
83.6	70°	103.7	198.8	302.6	397.7	510.0	585.0	659.9	734.8	749.2
40.3	72.5°	66.3	138.3	219.0	322.7	409.2	489.9	556.1	610.9	567.7
25.9	75°	37.5	95.1	172.9	253.6	331.4	409.2	463.9	492.8	394.8
17.3	77.5°	23.1	69.2	141.2	204.6	256.5	328.5	363.1	380.4	282.4
11.5	80°	14.4	51.9	118.1	167.1	167.1	242.1	282.4	296.8	204.6
8.6	82.5°	11.5	37.5	92.2	126.8	112.4	181.5	221.9	224.8	144.1
5.8	85°	8.6	28.8	57.6	83.6	77.8	126.8	129.7	144.1	95.1
5.8	87.5°	5.8	17.3	34.6	49.0	43.2	60.5	69.2	77.8	51.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
26801.6
26014.9
25579.8
24943.0
23750.0
22467.7
20980.8
19493.9
17857.2
16278.1
14687.4
13258.2
11834.7
10445.7
9157.7
7921.5
6691.0
5463.5
4388.7
3596.2
2962.3
2449.3
2037.3
1714.5
1449.4
1230.4
1046.0
890.4
737.7
527.3
374.6
265.1
190.2
132.6
86.4
46.1
0.0

(END OF REPORT)