

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: P638840

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

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638840
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-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19608 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

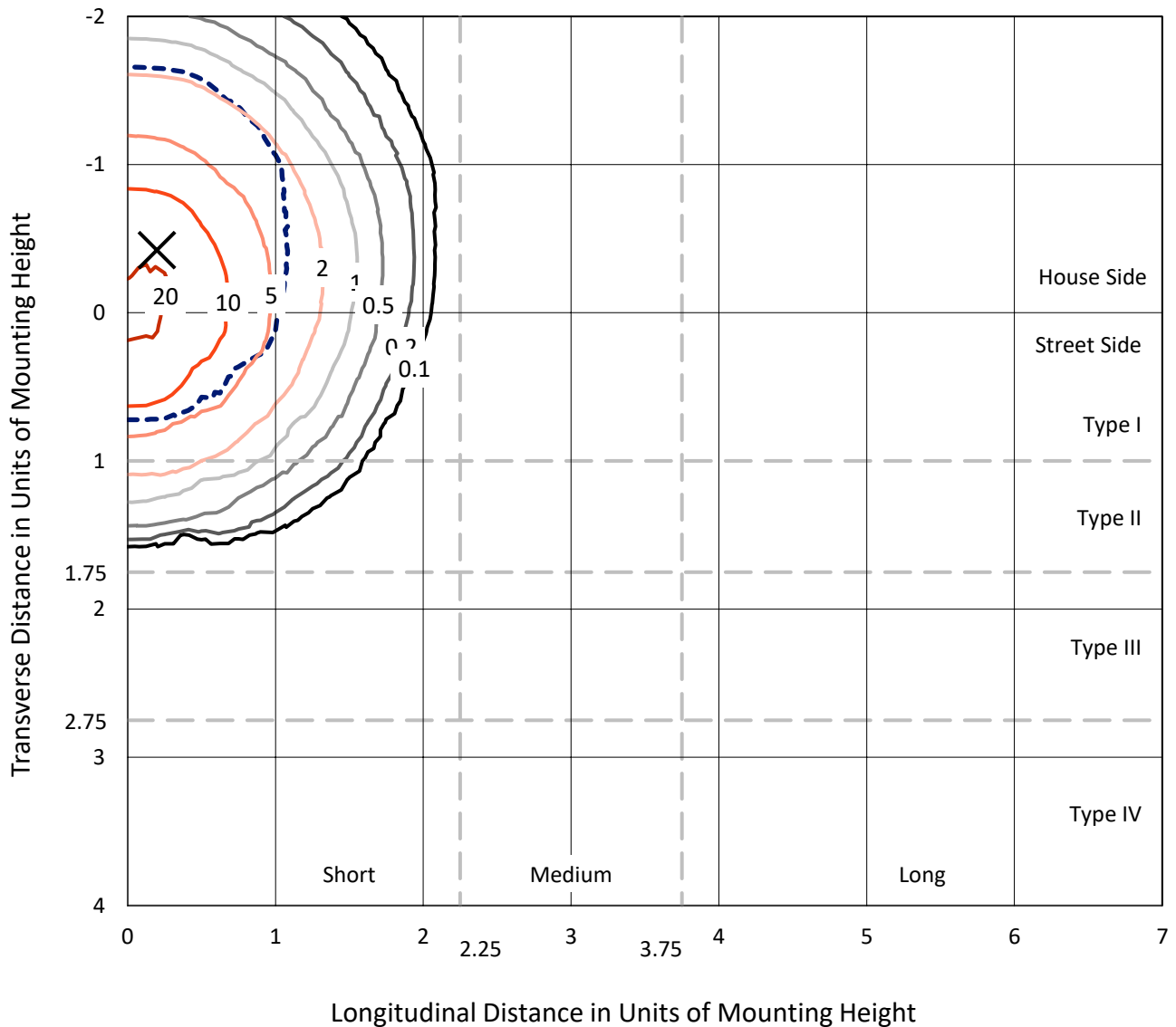
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638840
 CATALOG NUMBER: EPH-VN-03-E-735-U-LAM-VI

Iso-Footcandle Lines of Horizontal Illumination

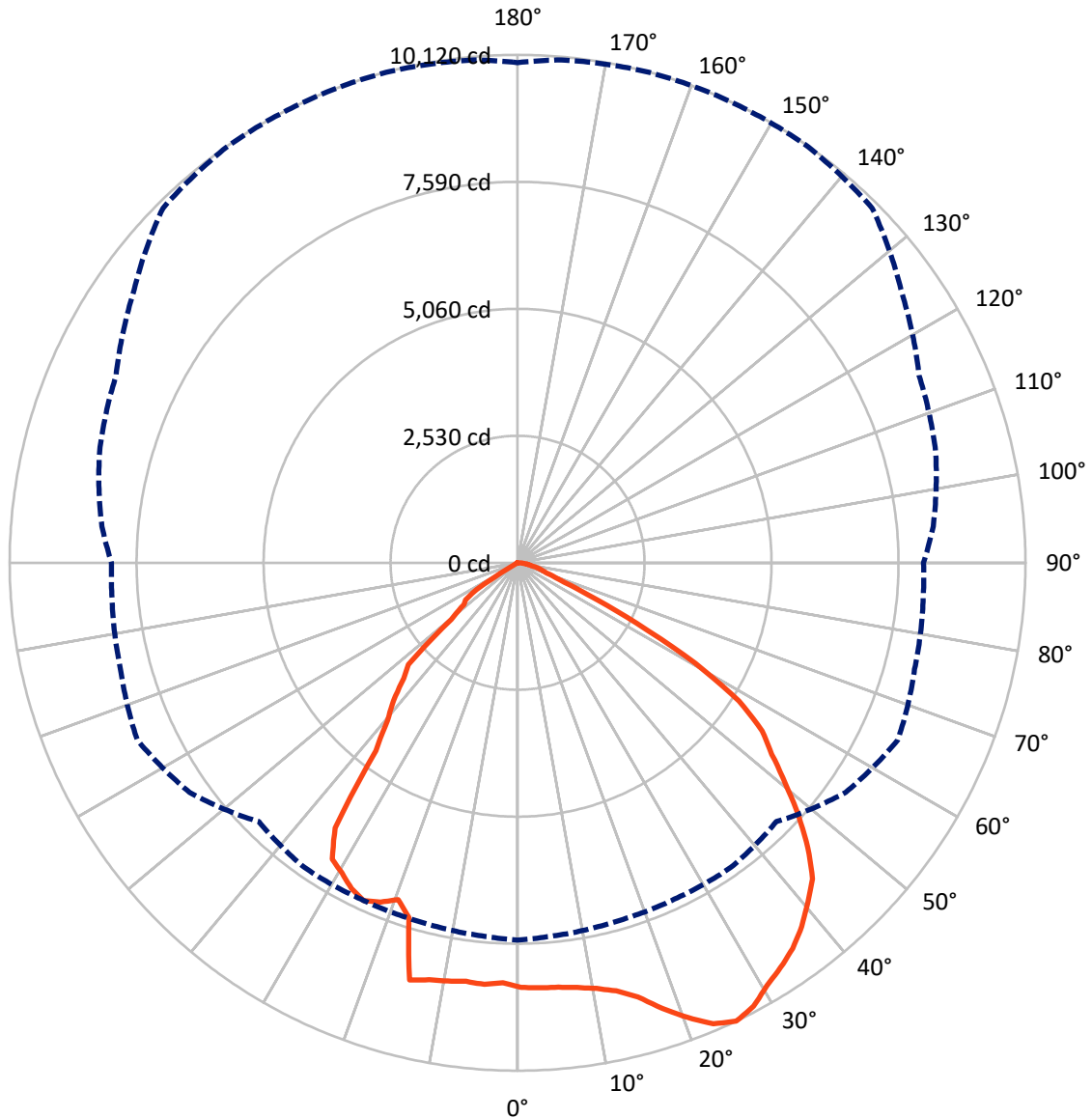
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 21.2 fc
 Type I - Short - N/A

REPORT NUMBER: P638840
CATALOG NUMBER: EPH-VN-03-E-735-U-LAM-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

REPORT NUMBER: P638840
 CATALOG NUMBER: EPH-VN-03-E-735-U-LAM-VI

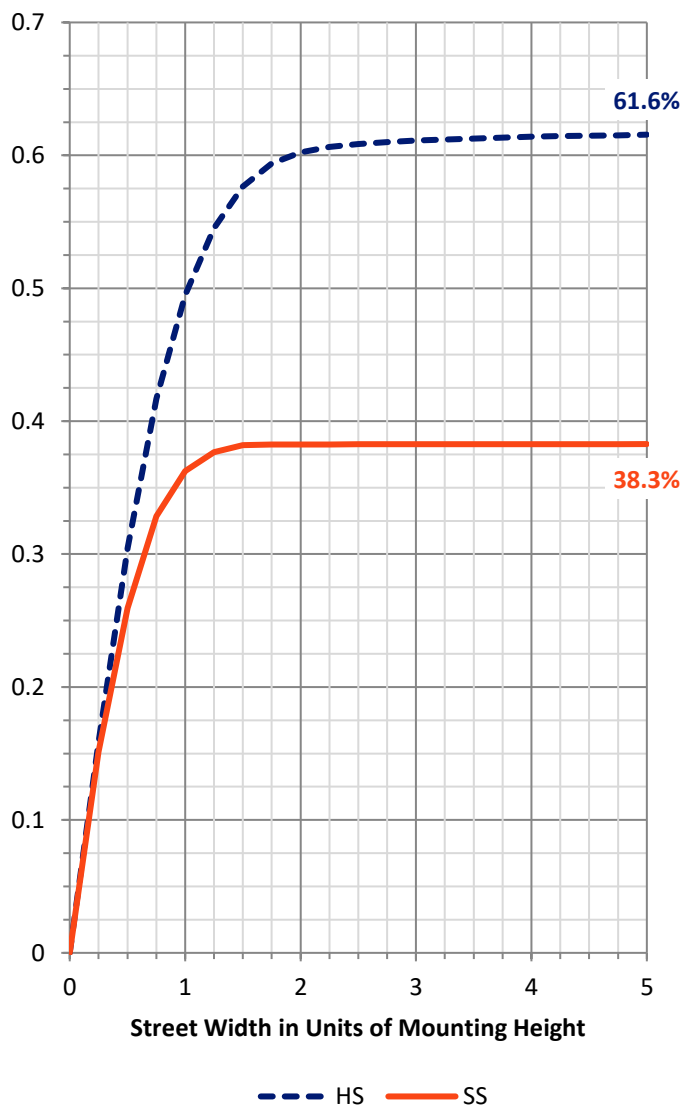
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12139.3	0.0	12139.3
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	7468.6	0.0	7468.6
	% Fixture	38.1	0.0	38.1
Total	Lumens	19608.0	0.0	19608.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	811.7	4.1
10°-20°	2478.4	12.6
20°-30°	3918.2	20.0
30°-40°	4426.0	22.6
40°-50°	4145.0	21.1
50°-60°	2857.7	14.6
60°-70°	767.8	3.9
70°-80°	160.0	0.8
80°-90°	43.3	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°	19608.0	100.0
0°-180°	19608.0	100.0

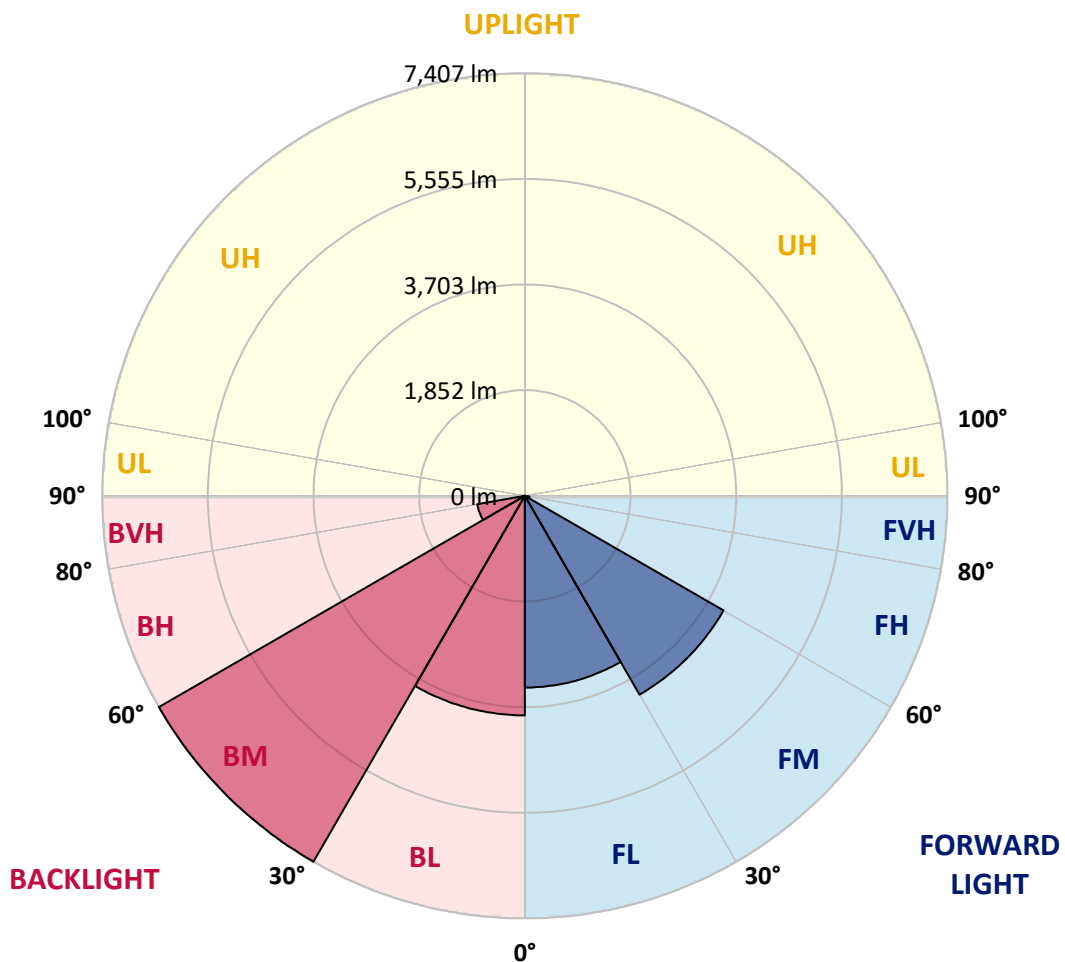


REPORT NUMBER: P638840
 CATALOG NUMBER: EPH-VN-03-E-735-U-LAM-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3360.2	17.1			
FM (30°-60°)	4022.0	20.5			
FH (60°-80°)	80.6	0.4			G0/660
FVH (80°-90°)	5.8	0.0			G0/10
BL (0°-30°)	3848.1	19.6	B4/5000		
BM (30°-60°)	7406.6	37.8	B4/8500		
BH (60°-80°)	847.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	37.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type I Short





REPORT NUMBER: P638840
 CATALOG NUMBER: EPH-VN-03-E-735-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5
2.5°	8498.0	8443.2	8391.3	8374.0	8446.1	8523.9	8474.9	8477.8	8460.5	8492.2
5°	8561.4	8486.4	8451.9	8425.9	8437.4	8518.1	8449.0	8474.9	8446.1	8483.5
7.5°	8538.3	8486.4	8451.9	8402.9	8440.3	8535.4	8469.1	8472.0	8457.6	8492.2
10°	8523.9	8486.4	8443.2	8449.0	8492.2	8572.9	8521.0	8549.8	8529.7	8549.8
12.5°	8558.5	8518.1	8495.1	8495.1	8532.5	8624.7	8598.8	8624.7	8616.1	8633.4
15°	8232.8	8270.3	8489.3	8587.3	8662.2	8754.4	8742.9	8768.8	8774.6	8800.5
17.5°	6944.8	6907.3	6890.0	7394.3	8734.3	9019.5	9010.9	9008.0	8979.2	8959.0
20°	7114.8	7100.4	7080.2	7117.7	7267.5	9157.9	9215.5	8861.0	8757.3	8748.7
22.5°	7385.6	7362.6	7287.7	7290.5	7336.7	7962.0	8930.2	8607.5	8572.9	8552.7
25°	7518.2	7472.1	7411.6	7394.3	7408.7	7293.4	7976.4	8359.6	8189.6	8111.8
27.5°	7284.8	7287.7	7238.7	7284.8	7230.0	6711.3	6420.3	7875.5	7869.8	7835.2
30°	7109.0	7100.4	7042.7	7100.4	6722.9	6143.7	6019.7	7345.3	7284.8	7238.7
32.5°	6570.1	6575.9	6743.0	6967.8	6348.3	5890.1	5515.5	6561.5	7134.9	7109.0
35°	4700.0	4711.5	5305.1	6414.5	5780.6	5385.8	5357.0	5671.1	6898.6	6910.2
37.5°	4524.2	4524.2	4509.8	4691.3	5333.9	5181.2	5238.8	5207.1	6319.4	6348.3
40°	4397.4	4371.4	4351.3	4066.0	3708.7	5037.1	5077.4	4933.4	5973.6	5979.4
42.5°	4244.7	4215.8	4221.6	3694.3	3319.6	4679.8	4567.4	4374.3	5397.3	5403.1
45°	3965.1	4014.1	4048.7	3233.2	3204.4	3342.7	4213.0	4091.9	5008.3	5114.9
47.5°	2017.1	2060.4	3161.2	2973.9	3040.1	2971.0	3558.8	3561.7	4166.9	4521.3
50°	1829.8	1818.3	1821.2	1734.7	2806.7	2403.3	2573.3	3264.9	3336.9	3844.1
52.5°	1705.9	1703.0	1527.3	1357.3	1763.6	2115.1	1867.3	2362.9	2481.1	3256.3
55°	1262.2	1354.4	1204.5	1276.6	1103.7	1694.4	1685.8	2132.4	2172.8	2610.8
57.5°	11.5	14.4	34.6	971.1	763.6	847.2	1164.2	1455.2	1527.3	2034.4
60°	2.9	5.8	14.4	28.8	495.6	521.6	778.0	841.4	948.1	1213.2
62.5°	0.0	0.0	5.8	14.4	25.9	213.2	247.8	270.9	417.8	619.6
65°	0.0	0.0	2.9	8.6	14.4	34.6	60.5	126.8	181.5	224.8
67.5°	0.0	0.0	2.9	5.8	11.5	17.3	34.6	49.0	77.8	132.6
70°	0.0	0.0	2.9	5.8	8.6	14.4	23.1	34.6	46.1	66.3
72.5°	0.0	0.0	2.9	5.8	5.8	17.3	17.3	25.9	34.6	43.2
75°	0.0	0.0	2.9	2.9	5.8	11.5	17.3	20.2	23.1	34.6
77.5°	0.0	0.0	2.9	5.8	8.6	11.5	14.4	23.1	20.2	20.2
80°	0.0	0.0	2.9	8.6	8.6	14.4	17.3	23.1	14.4	14.4
82.5°	0.0	0.0	2.9	11.5	8.6	28.8	28.8	31.7	11.5	11.5
85°	0.0	0.0	8.6	5.8	17.3	28.8	25.9	17.3	14.4	8.6
87.5°	0.0	0.0	2.9	2.9	5.8	8.6	20.2	17.3	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638840
 CATALOG NUMBER: EPH-VN-03-E-735-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
8460.5	0°	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5
8408.6	2.5°	8523.9	8486.4	8564.2	8555.6	8518.1	8500.8	8480.7	8463.4	8336.6
8414.4	5°	8526.8	8469.1	8564.2	8546.9	8541.2	8512.4	8495.1	8521.0	8405.7
8437.4	7.5°	8526.8	8469.1	8572.9	8578.6	8570.0	8546.9	8544.1	8561.4	8466.3
8477.8	10°	8584.4	8561.4	8647.8	8656.4	8644.9	8639.2	8624.7	8613.2	8512.4
8616.1	12.5°	8705.4	8659.3	8757.3	8783.2	8774.6	8789.0	8754.4	8771.7	8668.0
8757.3	15°	8852.4	8855.3	8930.2	8987.8	8982.1	9028.2	8976.3	9022.4	8947.5
8918.7	17.5°	9077.2	9108.9	9215.5	9301.9	9333.6	9368.2	9333.6	9348.0	9241.4
8740.0	20°	8840.9	8959.0	9472.0	9630.4	9696.7	9728.4	9670.8	9688.1	9581.5
8521.0	22.5°	8627.6	8780.4	9235.7	9731.3	9935.9	9999.3	9979.1	9976.2	9935.9
8088.8	25°	8313.5	8621.9	8826.5	9350.9	9993.5	10108.8	10120.3	10117.4	10056.9
7823.7	27.5°	7927.4	7996.6	8526.8	8846.6	9590.1	10028.1	10010.8	9927.3	9846.6
7273.3	30°	7434.6	7748.7	7987.9	8498.0	9068.5	9780.3	9780.3	9716.9	9633.3
7077.3	32.5°	7183.9	7590.2	7812.1	7996.6	8483.5	9503.6	9618.9	9552.6	9486.4
6924.6	35°	7051.4	7111.9	7630.6	7797.7	8209.8	8970.5	9437.4	9371.1	9322.1
6518.3	37.5°	6760.3	6901.5	7143.6	7590.2	7717.0	8535.4	9195.3	9160.7	9103.1
5990.9	40°	6112.0	6489.5	6861.2	7284.8	7417.3	7976.4	8901.4	8915.8	8838.0
5429.0	42.5°	5728.7	5985.2	6567.3	6852.5	7209.9	7616.2	8616.1	8639.2	8584.4
5143.7	45°	5279.2	5564.4	5973.6	6492.3	6979.3	7120.5	8111.8	8353.9	8307.8
4576.0	47.5°	4867.1	5097.6	5599.0	6123.5	6662.4	6642.2	7532.6	7987.9	7924.5
4140.9	50°	4282.1	4685.5	4921.8	5403.1	6207.1	6261.8	6915.9	7558.5	7506.7
3518.5	52.5°	3610.7	4117.9	4570.3	5011.2	5746.0	5875.7	6342.5	7120.5	7086.0
2688.6	55°	3155.4	3524.2	4034.3	4388.7	5187.0	5532.7	5913.1	6702.7	6685.4
2210.2	57.5°	2244.8	2956.6	3377.3	3872.9	4293.6	4919.0	5201.4	5852.6	5691.2
1224.7	60°	1521.5	1855.8	2368.7	2901.8	3184.2	3809.5	4071.8	4593.3	4550.1
731.9	62.5°	804.0	1112.3	1478.3	1746.3	1950.9	2558.9	2668.4	3230.3	3215.9
293.9	65°	354.4	469.7	801.1	939.4	1149.8	1432.2	1527.3	1729.0	1680.0
144.1	67.5°	184.4	279.5	452.4	556.2	700.2	806.9	884.7	948.1	988.4
95.1	70°	112.4	204.6	279.5	386.1	481.2	567.7	628.2	714.6	766.5
49.0	72.5°	83.6	129.7	193.1	296.8	348.7	449.5	510.1	573.4	619.6
40.3	75°	46.1	86.4	155.6	233.4	279.5	366.0	420.7	463.9	478.4
23.1	77.5°	28.8	66.3	129.7	181.5	219.0	296.8	282.4	322.7	357.3
17.3	80°	20.2	49.0	100.9	149.8	152.7	190.2	224.8	259.3	282.4
11.5	82.5°	14.4	40.3	74.9	115.3	100.9	147.0	175.8	201.7	147.0
8.6	85°	11.5	28.8	37.5	69.2	57.6	103.7	89.3	86.4	57.6
5.8	87.5°	8.6	14.4	25.9	31.7	23.1	23.1	28.8	34.6	28.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8460.5
8250.1
8307.8
8356.8
8428.8
8575.8
8823.6
9149.2
9506.5
9806.2
9964.7
9783.2
9601.6
9431.6
9252.9
9045.5
8820.7
8578.6
8313.5
7970.6
7515.3
7109.0
6705.6
5673.9
4553.0
3218.8
1659.8
988.4
769.4
628.2
469.7
363.1
285.3
106.6
57.6
28.8
0.0

(END OF REPORT)