

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: P638877

Luminaire Tested: **EPH-VN-04-E-940-U-LAM-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638877
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-940-U-LAM-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18626.9 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

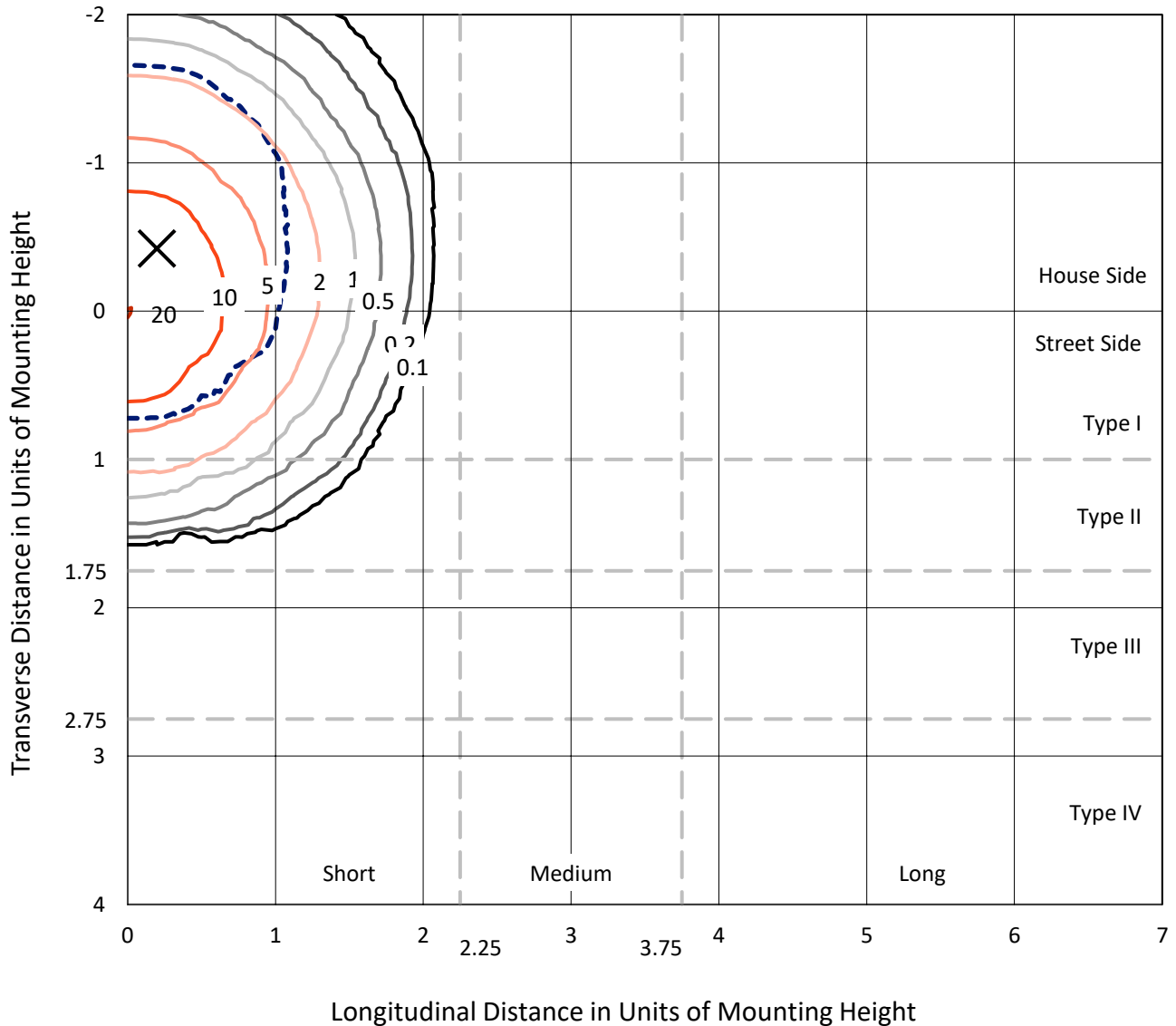
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

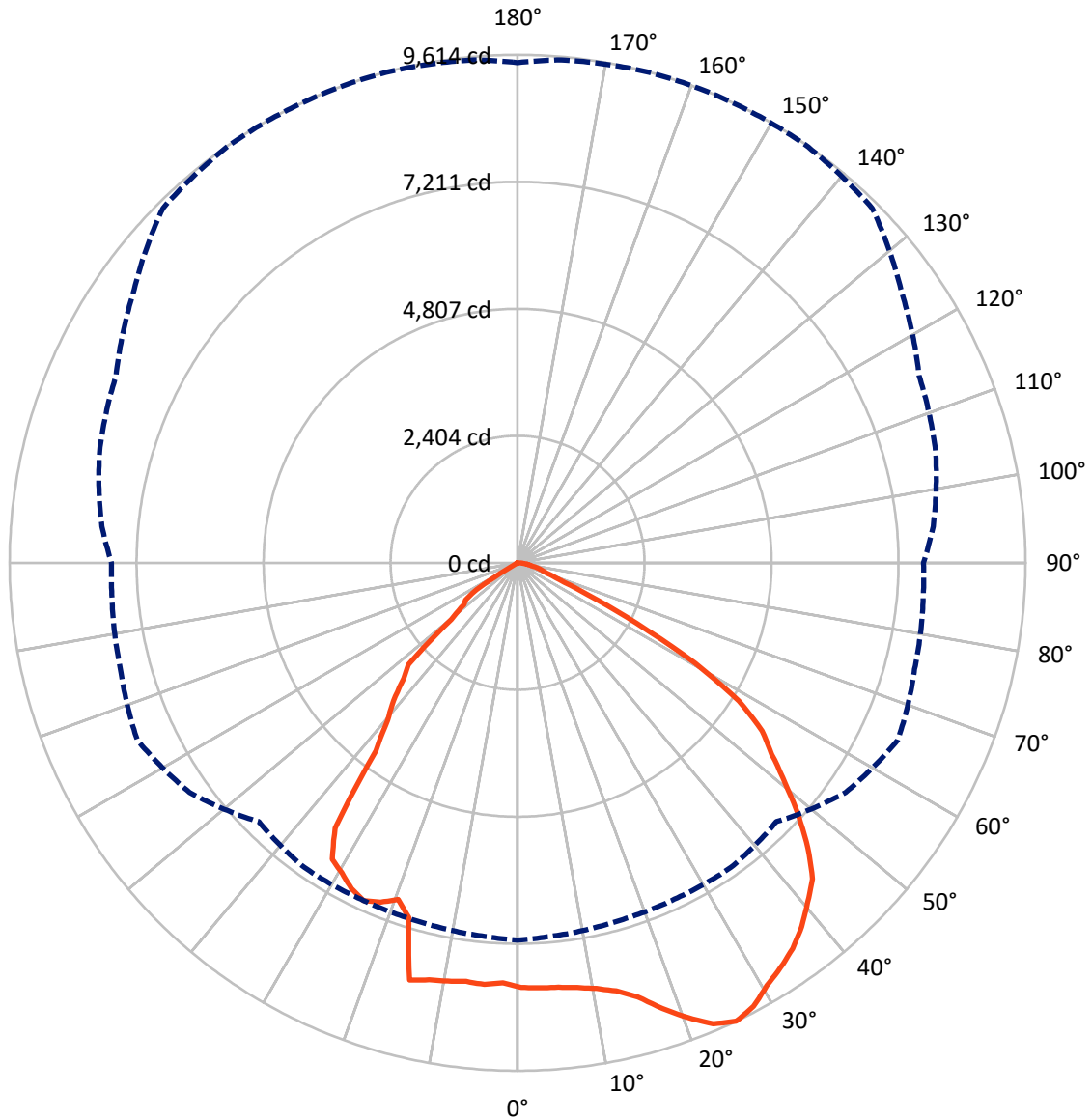
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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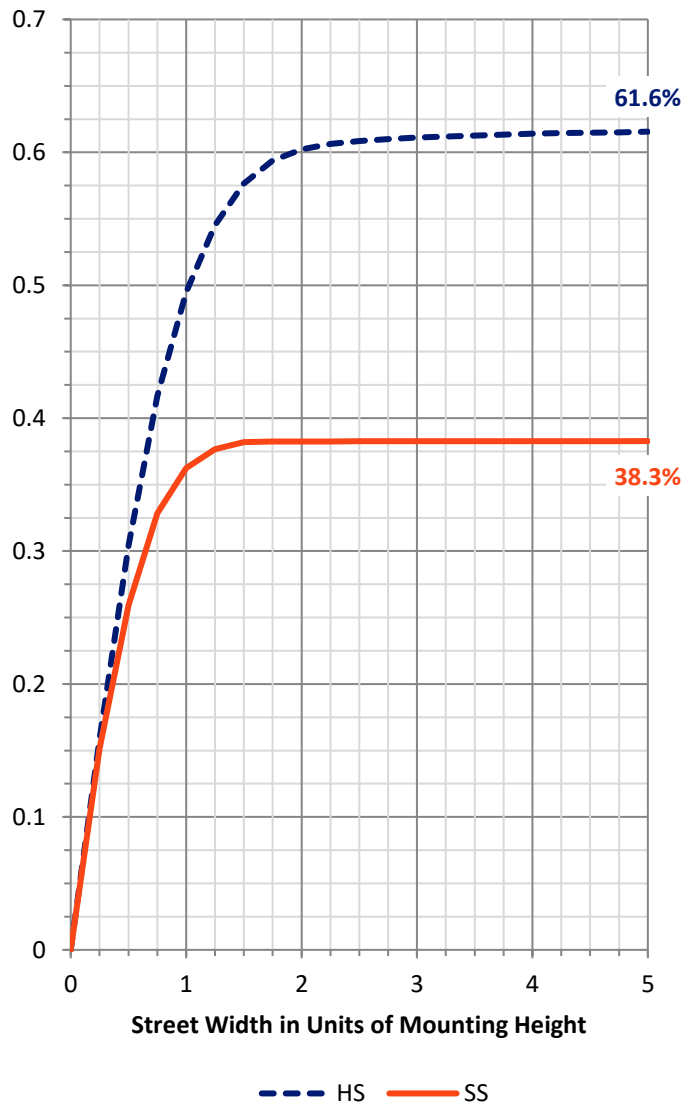
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11532.0	0.0	11532.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	7094.9	0.0	7094.9
	% Fixture	38.1	0.0	38.1
Total	Lumens	18626.9	0.0	18626.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	771.1	4.1
10°-20°	2354.4	12.6
20°-30°	3722.2	20.0
30°-40°	4204.5	22.6
40°-50°	3937.6	21.1
50°-60°	2714.7	14.6
60°-70°	729.3	3.9
70°-80°	152.0	0.8
80°-90°	41.1	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°	18626.9	100.0
0°-180°	18626.9	100.0

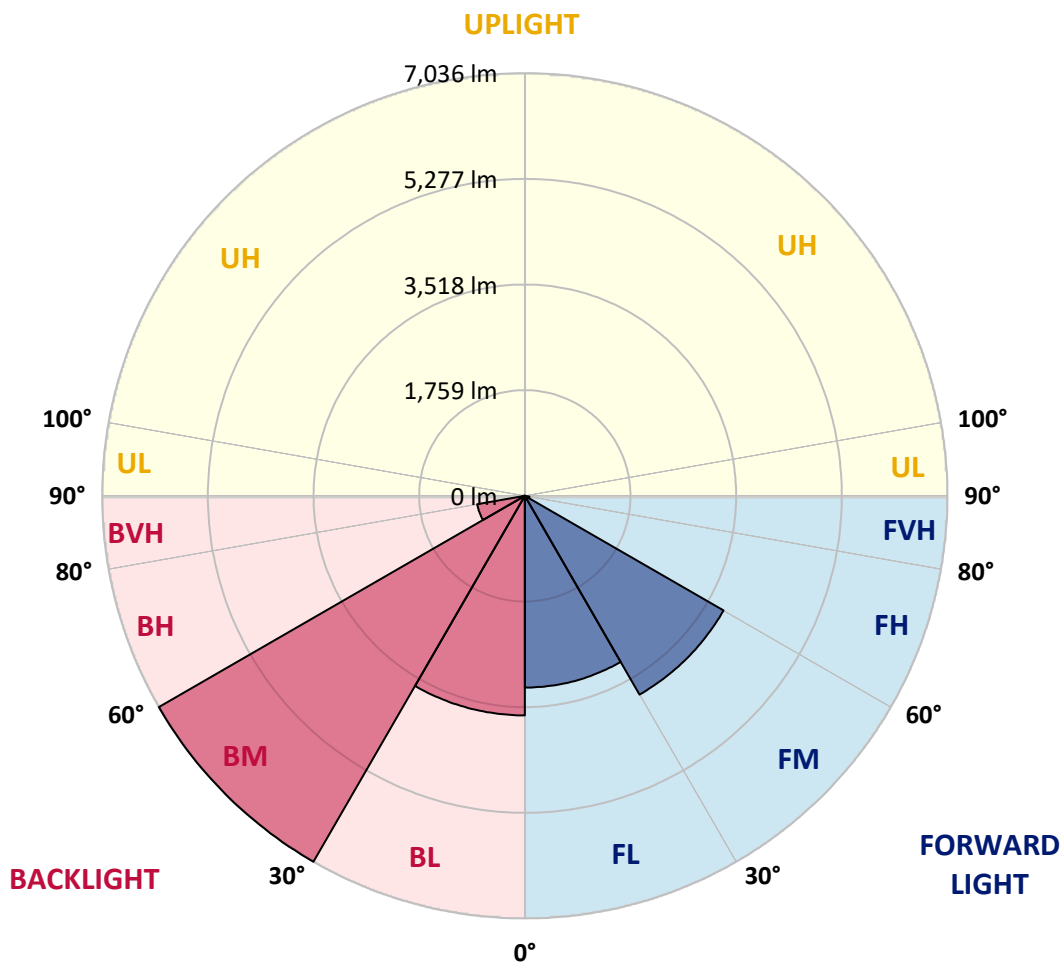


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3192.1	17.1			
FM (30°-60°)	3820.8	20.5			
FH (60°-80°)	76.6	0.4			G0/660
FVH (80°-90°)	5.5	0.0			G0/10
BL (0°-30°)	3655.6	19.6	B4/5000		
BM (30°-60°)	7036.0	37.8	B4/8500		
BH (60°-80°)	804.8	4.3	B2/1000		G2/1000
BVH (80°-90°)	35.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8037.2	8037.2	8037.2	8037.2	8037.2	8037.2	8037.2	8037.2	8037.2	8037.2
2.5°	8072.8	8020.8	7971.5	7955.1	8023.5	8097.4	8050.9	8053.6	8037.2	8067.3
5°	8133.0	8061.8	8029.0	8004.3	8015.3	8091.9	8026.2	8050.9	8023.5	8059.1
7.5°	8111.1	8061.8	8029.0	7982.4	8018.0	8108.4	8045.4	8048.1	8034.4	8067.3
10°	8097.4	8061.8	8020.8	8026.2	8067.3	8143.9	8094.7	8122.0	8102.9	8122.0
12.5°	8130.2	8091.9	8070.0	8070.0	8105.6	8193.2	8168.6	8193.2	8185.0	8201.4
15°	7820.9	7856.5	8064.6	8157.6	8228.8	8316.4	8305.4	8330.1	8335.6	8360.2
17.5°	6597.3	6561.7	6545.3	7024.3	8297.2	8568.2	8560.0	8557.3	8529.9	8510.8
20°	6758.8	6745.1	6725.9	6761.5	6903.9	8699.6	8754.4	8417.7	8319.1	8310.9
22.5°	7016.1	6994.2	6923.0	6925.8	6969.6	7563.6	8483.4	8176.8	8143.9	8124.8
25°	7142.0	7098.2	7040.7	7024.3	7038.0	6928.5	7577.3	7941.4	7779.9	7705.9
27.5°	6920.3	6923.0	6876.5	6920.3	6868.3	6375.5	6099.1	7481.5	7476.0	7443.1
30°	6753.3	6745.1	6690.3	6745.1	6386.5	5836.3	5718.5	6977.8	6920.3	6876.5
32.5°	6241.4	6246.9	6405.7	6619.2	6030.6	5595.4	5239.5	6233.2	6777.9	6753.3
35°	4464.8	4475.7	5039.7	6093.6	5491.3	5116.3	5088.9	5387.3	6553.5	6564.4
37.5°	4297.8	4297.8	4284.1	4456.6	5067.0	4921.9	4976.7	4946.6	6003.2	6030.6
40°	4177.4	4152.7	4133.6	3862.6	3523.1	4785.1	4823.4	4686.5	5674.8	5680.2
42.5°	4032.3	4004.9	4010.4	3509.4	3153.6	4445.6	4338.9	4155.5	5127.3	5132.7
45°	3766.7	3813.3	3846.1	3071.4	3044.1	3175.5	4002.2	3887.2	4757.7	4859.0
47.5°	1916.2	1957.3	3003.0	2825.1	2888.0	2822.3	3380.8	3383.5	3958.4	4295.1
50°	1738.3	1727.3	1730.1	1647.9	2666.3	2283.0	2444.5	3101.5	3170.0	3651.8
52.5°	1620.6	1617.8	1450.9	1289.3	1675.3	2009.3	1773.9	2244.7	2357.0	3093.3
55°	1199.0	1286.6	1144.3	1212.7	1048.4	1609.6	1601.4	2025.7	2064.0	2480.1
57.5°	10.9	13.7	32.8	922.5	725.4	804.8	1105.9	1382.4	1450.9	1932.6
60°	2.7	5.5	13.7	27.4	470.8	495.5	739.1	799.3	900.6	1152.5
62.5°	0.0	0.0	5.5	13.7	24.6	202.6	235.4	257.3	396.9	588.6
65°	0.0	0.0	2.7	8.2	13.7	32.8	57.5	120.4	172.5	213.5
67.5°	0.0	0.0	2.7	5.5	10.9	16.4	32.8	46.5	73.9	125.9
70°	0.0	0.0	2.7	5.5	8.2	13.7	21.9	32.8	43.8	63.0
72.5°	0.0	0.0	2.7	5.5	5.5	16.4	16.4	24.6	32.8	41.1
75°	0.0	0.0	2.7	2.7	5.5	10.9	16.4	19.2	21.9	32.8
77.5°	0.0	0.0	2.7	5.5	8.2	10.9	13.7	21.9	19.2	19.2
80°	0.0	0.0	2.7	8.2	8.2	13.7	16.4	21.9	13.7	13.7
82.5°	0.0	0.0	2.7	10.9	8.2	27.4	27.4	30.1	10.9	10.9
85°	0.0	0.0	8.2	5.5	16.4	27.4	24.6	16.4	13.7	8.2
87.5°	0.0	0.0	2.7	2.7	5.5	8.2	19.2	16.4	5.5	5.5
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°
8037.2	0°	8037.2	8037.2	8037.2	8037.2	8037.2	8037.2	8037.2	8037.2	8037.2
7987.9	2.5°	8097.4	8061.8	8135.7	8127.5	8091.9	8075.5	8056.3	8039.9	7919.5
7993.4	5°	8100.1	8045.4	8135.7	8119.3	8113.8	8086.5	8070.0	8094.7	7985.2
8015.3	7.5°	8100.1	8045.4	8143.9	8149.4	8141.2	8119.3	8116.6	8133.0	8042.7
8053.6	10°	8154.9	8133.0	8215.1	8223.3	8212.4	8206.9	8193.2	8182.3	8086.5
8185.0	12.5°	8269.9	8226.1	8319.1	8343.8	8335.6	8349.2	8316.4	8332.8	8234.3
8319.1	15°	8409.5	8412.2	8483.4	8538.1	8532.7	8576.5	8527.2	8571.0	8499.8
8472.4	17.5°	8623.0	8653.1	8754.4	8836.5	8866.6	8899.5	8866.6	8880.3	8779.0
8302.7	20°	8398.5	8510.8	8998.0	9148.6	9211.5	9241.7	9186.9	9203.3	9102.0
8094.7	22.5°	8195.9	8341.0	8773.6	9244.4	9438.8	9499.0	9479.8	9477.1	9438.8
7684.0	25°	7897.6	8190.5	8384.8	8883.1	9493.5	9603.0	9614.0	9611.2	9553.7
7432.2	27.5°	7530.7	7596.4	8100.1	8404.0	9110.3	9526.4	9509.9	9430.5	9353.9
6909.3	30°	7062.6	7361.0	7588.2	8072.8	8614.8	9290.9	9290.9	9230.7	9151.3
6723.2	32.5°	6824.5	7210.5	7421.2	7596.4	8059.1	9028.1	9137.6	9074.7	9011.7
6578.1	35°	6698.6	6756.0	7248.8	7407.6	7799.0	8521.7	8965.2	8902.2	8855.7
6192.1	37.5°	6422.1	6556.2	6786.2	7210.5	7330.9	8108.4	8735.2	8702.4	8647.6
5691.2	40°	5806.1	6164.8	6517.9	6920.3	7046.2	7577.3	8456.0	8469.7	8395.8
5157.4	42.5°	5442.1	5685.7	6238.7	6509.7	6849.1	7235.1	8185.0	8206.9	8154.9
4886.4	45°	5015.0	5286.0	5674.8	6167.5	6630.1	6764.3	7705.9	7935.9	7892.1
4347.1	47.5°	4623.6	4842.6	5318.9	5817.1	6329.0	6309.8	7155.7	7588.2	7528.0
3933.7	50°	4067.9	4451.1	4675.6	5132.7	5896.5	5948.5	6569.9	7180.4	7131.1
3342.4	52.5°	3430.0	3911.8	4341.6	4760.4	5458.5	5581.7	6025.1	6764.3	6731.4
2554.0	55°	2997.5	3347.9	3832.4	4169.1	4927.4	5255.9	5617.3	6367.3	6350.9
2099.6	57.5°	2132.5	2808.6	3208.3	3679.1	4078.8	4672.8	4941.1	5559.8	5406.5
1163.4	60°	1445.4	1762.9	2250.2	2756.6	3024.9	3618.9	3868.0	4363.5	4322.4
695.3	62.5°	763.8	1056.7	1404.3	1658.9	1853.3	2430.9	2534.9	3068.7	3055.0
279.2	65°	336.7	446.2	761.0	892.4	1092.2	1360.5	1450.9	1642.5	1595.9
136.9	67.5°	175.2	265.5	429.8	528.3	665.2	766.5	840.4	900.6	938.9
90.3	70°	106.8	194.4	265.5	366.8	457.2	539.3	596.8	678.9	728.2
46.5	72.5°	79.4	123.2	183.4	282.0	331.2	427.0	484.5	544.8	588.6
38.3	75°	43.8	82.1	147.8	221.7	265.5	347.7	399.7	440.7	454.4
21.9	77.5°	27.4	63.0	123.2	172.5	208.0	282.0	268.3	306.6	339.4
16.4	80°	19.2	46.5	95.8	142.3	145.1	180.7	213.5	246.4	268.3
10.9	82.5°	13.7	38.3	71.2	109.5	95.8	139.6	167.0	191.6	139.6
8.2	85°	10.9	27.4	35.6	65.7	54.7	98.5	84.9	82.1	54.7
5.5	87.5°	8.2	13.7	24.6	30.1	21.9	21.9	27.4	32.8	27.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8037.2
7837.3
7892.1
7938.6
8007.1
8146.7
8382.1
8691.4
9030.9
9315.6
9466.1
9293.7
9121.2
8959.7
8790.0
8592.9
8379.4
8149.4
7897.6
7571.8
7139.3
6753.3
6370.1
5390.1
4325.2
3057.7
1576.8
938.9
730.9
596.8
446.2
344.9
271.0
101.3
54.7
27.4
0.0

(END OF REPORT)