

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: P638595

Luminaire Tested: **EPH-VN-04-E-930-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638595
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-930-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (64) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22260.3 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

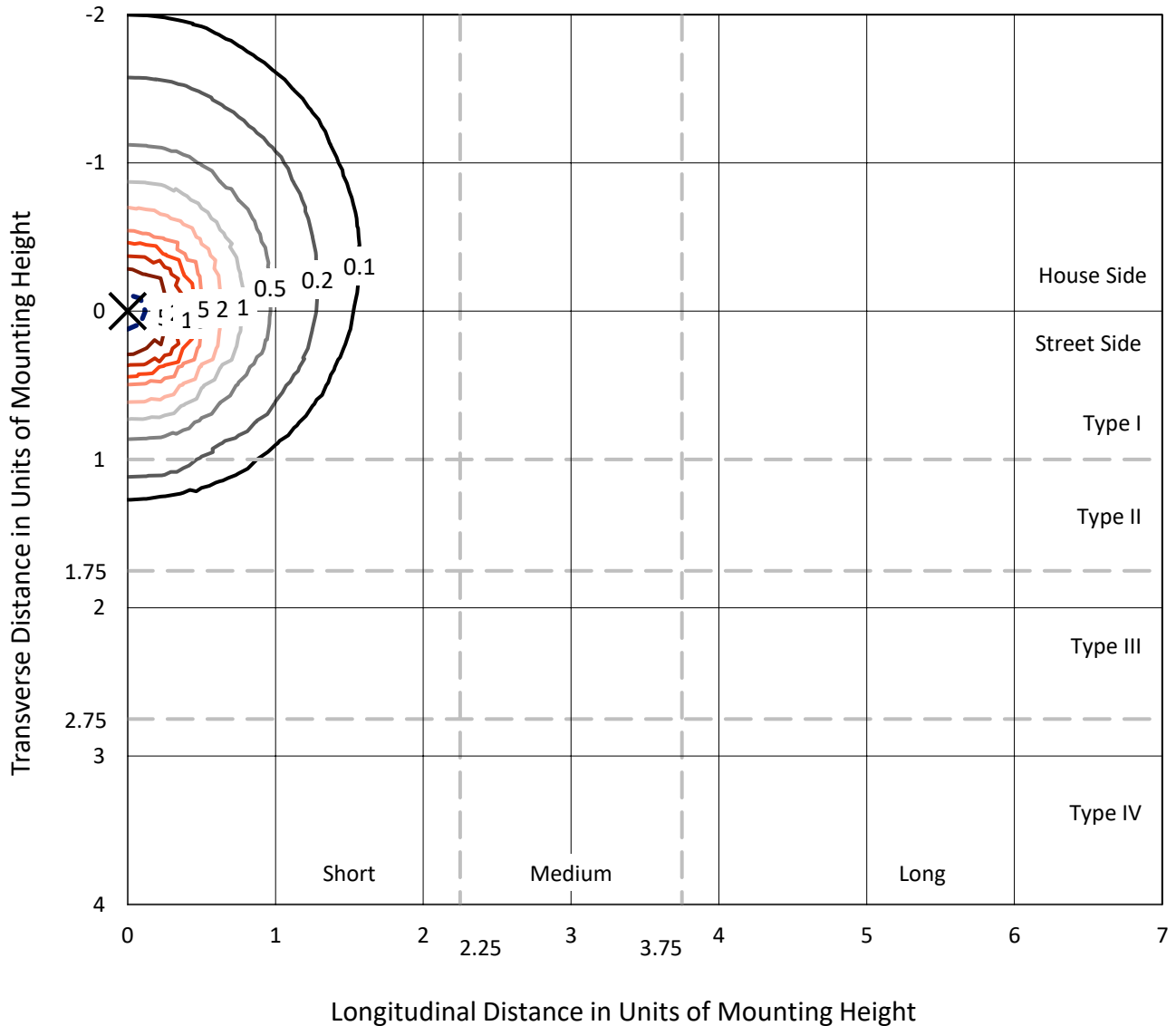
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638595
 CATALOG NUMBER: EPH-VN-04-E-930-U-33-VI

Iso-Footcandle Lines of Horizontal Illumination

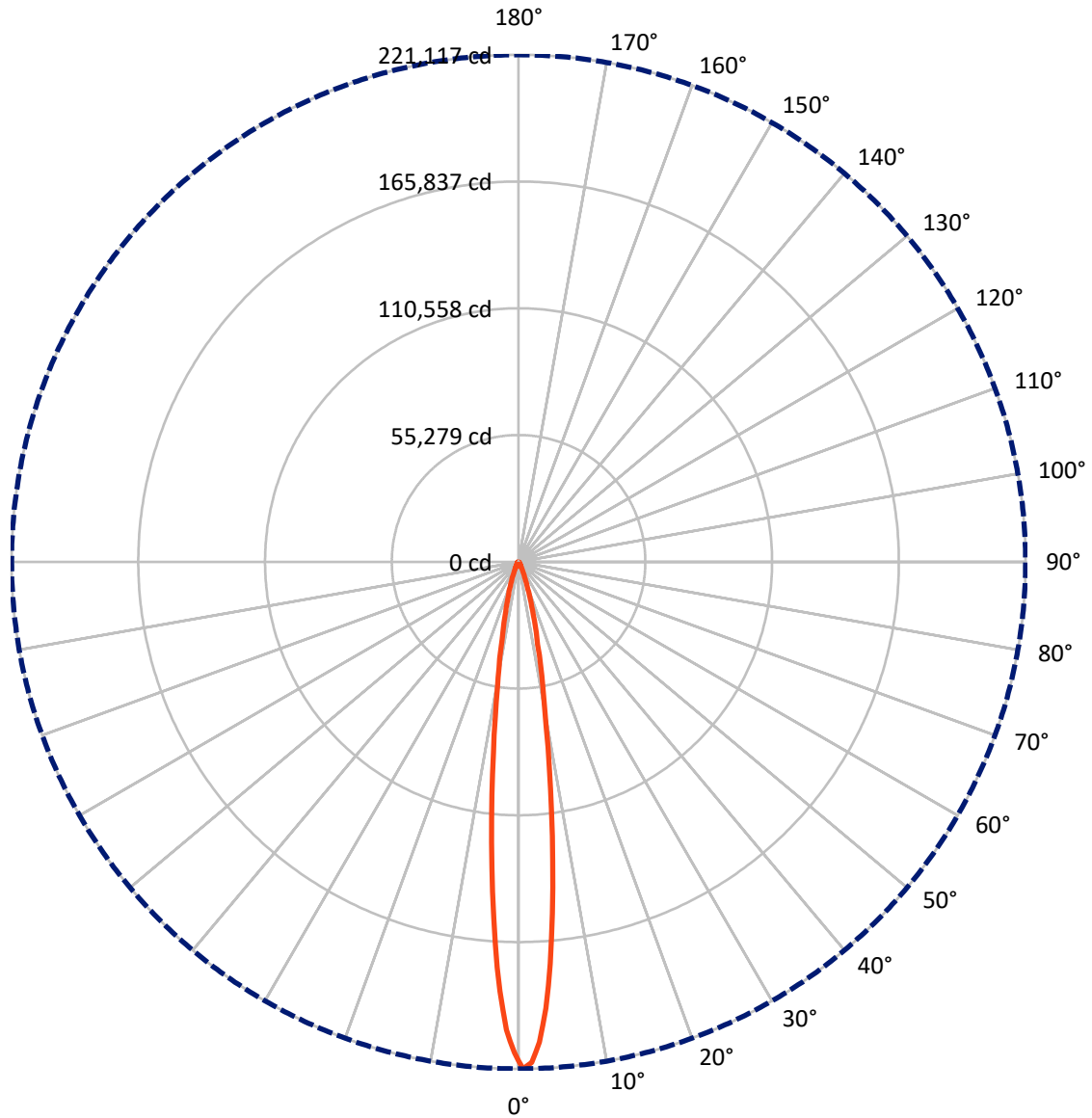
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 552.8 fc
 Type V - Short - N/A

REPORT NUMBER: P638595
CATALOG NUMBER: EPH-VN-04-E-930-U-33-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

REPORT NUMBER: P638595
 CATALOG NUMBER: EPH-VN-04-E-930-U-33-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11401.3	0.0	11401.3
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	10858.9	0.0	10858.9
	% Fixture	48.8	0.0	48.8
Total	Lumens	22260.3	0.0	22260.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11237.7	50.5
10°-20°	7194.3	32.3
20°-30°	2162.5	9.7
30°-40°	704.1	3.2
40°-50°	409.7	1.8
50°-60°	272.1	1.2
60°-70°	163.8	0.7
70°-80°	84.2	0.4
80°-90°	32.0	0.1
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°	22260.3	100.0
0°-180°	22260.3	100.0

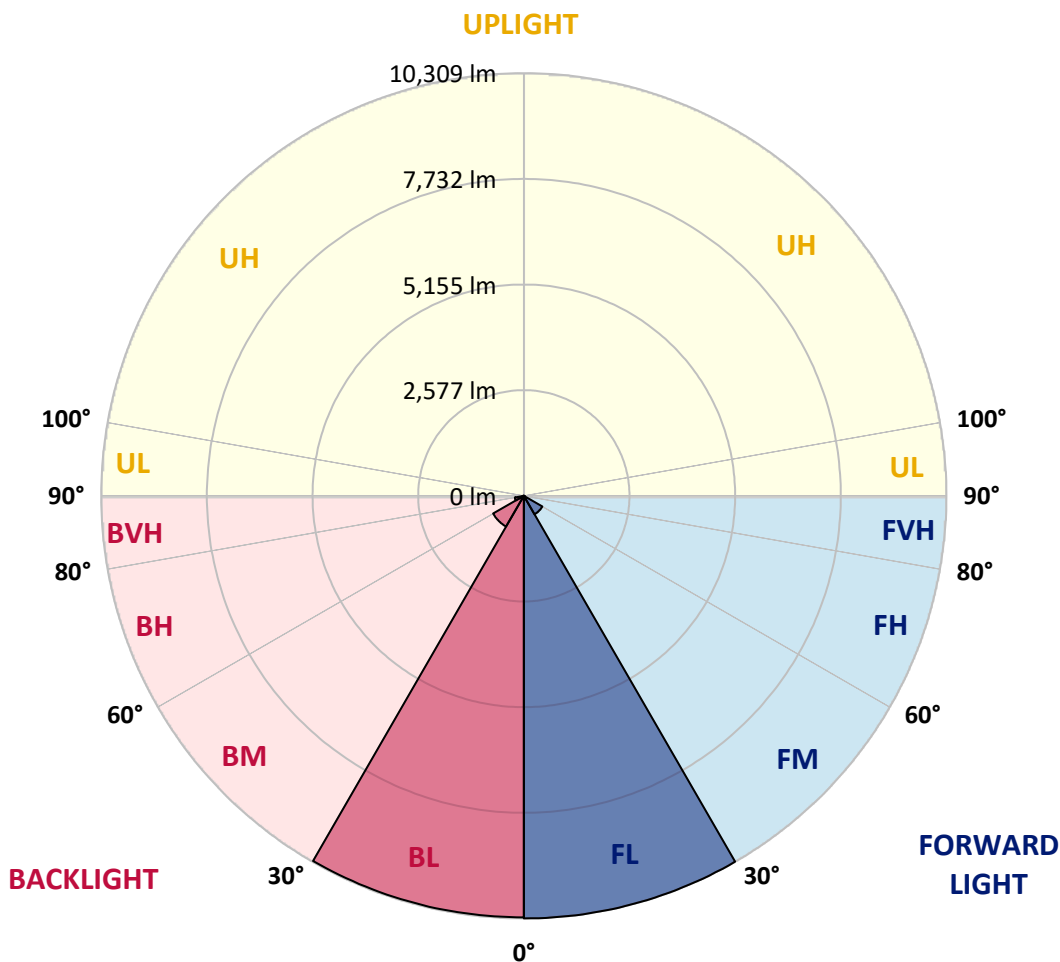


REPORT NUMBER: P638595
 CATALOG NUMBER: EPH-VN-04-E-930-U-33-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10309.4	46.3			
FM (30°-60°)	520.2	2.3			
FH (60°-80°)	24.5	0.1			G0/660
FVH (80°-90°)	4.8	0.0			G0/10
BL (0°-30°)	10285.0	46.2	B5		
BM (30°-60°)	865.7	3.9	B1/1000		
BH (60°-80°)	223.5	1.0	B1/500		G0/660
BVH (80°-90°)	27.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





REPORT NUMBER: P638595
 CATALOG NUMBER: EPH-VN-04-E-930-U-33-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	221116.6	221116.6	221116.6	221116.6	221116.6	221116.6	221116.6	221116.6	221116.6	221116.6
1°	218469.1	217802.4	216081.0	217305.3	218381.8	218069.0	218047.2	217930.8	217768.4	219043.7
2°	209736.0	209304.5	206758.8	207808.6	209338.4	208223.2	208921.4	208308.0	208320.1	209842.7
3°	195014.5	195249.7	191188.6	193096.7	195223.0	192519.7	193358.6	194934.5	193283.4	192786.4
4°	175880.4	173838.9	171620.5	173560.1	174110.5	172537.0	174083.8	176013.7	173720.1	173822.0
5°	154035.6	152527.6	149901.9	151099.6	149734.6	150231.6	152549.4	153344.6	151744.5	149729.7
6°	131575.1	130503.5	127220.7	128946.9	128462.0	128180.8	131107.2	128682.7	129555.5	128336.0
7°	109444.3	107441.6	105829.3	107482.8	107589.5	106743.4	110542.6	110101.3	108513.3	108144.7
8°	90676.2	88678.4	87313.4	88545.1	89350.0	88021.4	89808.3	90981.7	89740.4	89851.9
9°	73135.0	72783.4	70885.0	72494.9	73370.2	71947.0	73925.4	74349.7	73188.3	73753.2
10°	60050.0	59640.2	58124.9	58777.1	60227.0	58529.8	60428.2	60566.4	59640.2	59904.5
12.5°	37109.4	36944.5	36903.3	36997.8	36978.4	37279.1	37764.0	37211.2	37138.5	36224.4
15°	23985.6	24230.4	23978.3	24463.2	24533.5	24817.2	24521.4	24075.3	23224.3	22802.4
17.5°	14968.9	15281.6	15713.2	16423.5	17133.9	17216.4	16823.6	16299.9	15887.7	15436.8
20°	8611.8	8764.6	8699.1	9550.1	11387.9	11887.3	11380.6	10830.2	10333.2	9877.4
22.5°	5350.9	5295.1	5396.9	5683.0	6281.9	7826.3	7411.7	6861.3	6500.1	6124.3
25°	3280.3	3341.0	3302.2	3459.8	3728.9	4383.5	4478.0	4240.4	4056.2	3862.2
27.5°	2111.7	2111.7	2128.7	2216.0	2400.3	2378.4	2882.7	2698.5	2599.1	2504.5
30°	1466.8	1471.7	1471.7	1522.6	1563.8	1491.1	1622.0	1859.6	1813.5	1740.8
32.5°	1088.6	1103.1	1115.3	1141.9	1108.0	1030.4	1061.9	1338.3	1311.7	1285.0
35°	829.2	841.3	870.4	884.9	836.5	788.0	758.9	984.3	996.5	989.2
37.5°	603.7	611.0	664.3	720.1	664.3	620.7	603.7	756.4	814.6	807.4
40°	463.1	465.5	475.2	538.2	538.2	504.3	509.1	564.9	666.7	666.7
42.5°	397.6	397.6	407.3	397.6	400.0	436.4	448.5	455.8	564.9	564.9
45°	344.3	344.3	349.1	324.9	300.6	375.8	385.5	387.9	475.2	487.3
47.5°	288.5	288.5	298.2	266.7	254.6	298.2	324.9	332.2	409.7	419.4
50°	213.4	215.8	244.9	218.2	225.5	230.3	281.2	286.1	346.7	368.5
52.5°	143.0	143.0	147.9	169.7	196.4	189.1	227.9	244.9	276.4	305.5
55°	116.4	116.4	114.0	109.1	145.5	157.6	167.3	203.7	225.5	261.8
57.5°	80.0	84.9	77.6	89.7	94.6	118.8	126.1	160.0	172.1	220.6
60°	9.7	12.1	17.0	65.5	63.0	80.0	94.6	126.1	140.6	169.7
62.5°	2.4	2.4	4.8	12.1	43.6	53.3	75.2	87.3	101.8	130.9
65°	0.0	0.0	2.4	4.8	9.7	29.1	38.8	50.9	72.7	92.1
67.5°	0.0	0.0	2.4	4.8	4.8	12.1	19.4	31.5	38.8	67.9
70°	0.0	0.0	2.4	4.8	4.8	9.7	12.1	14.5	26.7	36.4
72.5°	0.0	0.0	2.4	4.8	7.3	9.7	12.1	12.1	12.1	24.2
75°	0.0	0.0	2.4	4.8	7.3	9.7	12.1	12.1	9.7	9.7
77.5°	0.0	0.0	2.4	4.8	9.7	12.1	14.5	12.1	7.3	7.3
80°	0.0	0.0	2.4	7.3	12.1	17.0	19.4	14.5	7.3	4.8
82.5°	0.0	0.0	4.8	9.7	14.5	19.4	26.7	21.8	9.7	4.8
85°	0.0	0.0	2.4	7.3	14.5	19.4	38.8	26.7	12.1	2.4
87.5°	0.0	0.0	0.0	2.4	2.4	4.8	14.5	9.7	4.8	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638595
 CATALOG NUMBER: EPH-VN-04-E-930-U-33-VI

CANDELA DISTRIBUTION (continued):

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
221116.6	0°	221116.6	221116.6	221116.6	221116.6	221116.6	221116.6	221116.6	221116.6
217572.0	1°	219092.2	219244.9	218745.5	219518.9	219247.4	217656.9	217130.8	216507.7
208948.1	2°	208308.0	209086.3	209125.1	209983.3	209971.2	208116.5	207541.9	208601.4
193795.0	3°	193208.2	194115.0	193297.9	194823.0	194364.7	192114.8	191530.5	192733.0
174626.9	4°	174105.6	173933.5	173652.2	172784.3	173853.5	172318.8	171162.3	172794.0
152401.5	5°	152096.0	151713.0	151165.0	150908.0	151703.3	150721.3	148342.9	150726.2
130542.2	6°	130702.3	129053.6	128973.6	128830.5	128910.6	126161.2	126326.0	128100.8
106876.7	7°	108006.5	108309.6	107691.4	108683.0	107926.5	106064.5	105346.9	107216.1
90341.6	8°	89711.3	89328.2	88855.4	90336.8	89025.1	87803.2	86966.7	88443.3
73845.4	9°	73707.2	73045.3	72565.2	72490.1	72693.7	70400.1	70865.7	71983.3
60050.0	10°	60071.8	58985.6	59249.9	59320.2	59097.1	57593.9	57608.5	57994.0
36830.5	12.5°	36699.6	36166.2	36299.6	36372.3	36825.7	36297.2	35550.4	35012.2
23221.8	15°	23066.7	22683.6	23466.7	23992.8	23886.2	23415.8	23064.2	22576.9
15436.8	17.5°	15293.7	15795.6	15798.0	16278.1	16326.6	15856.2	15584.7	15145.8
10039.8	20°	10003.5	10212.0	10646.0	10985.4	11181.8	10823.0	10498.1	10197.4
6260.1	22.5°	6260.1	6623.7	6895.3	7336.5	7515.9	7254.1	7023.8	6778.9
3908.3	25°	3842.8	4102.3	4327.7	4710.8	4955.7	4829.6	4618.7	4446.5
2523.9	27.5°	2562.7	2671.8	2783.3	3047.6	3302.2	3231.9	3147.0	3042.7
1779.6	30°	1806.3	1815.9	1934.7	2082.6	2252.4	2296.0	2257.2	2203.9
1306.8	32.5°	1331.0	1369.8	1425.6	1517.7	1631.7	1735.9	1716.5	1692.3
998.9	35°	1028.0	1086.2	1132.2	1202.6	1263.2	1362.6	1379.5	1372.3
821.9	37.5°	838.9	889.8	935.9	977.1	1028.0	1095.9	1149.2	1151.6
678.9	40°	695.8	741.9	802.5	834.0	870.4	921.3	986.8	991.6
574.6	42.5°	586.7	630.4	691.0	729.8	756.4	804.9	870.4	880.1
492.2	45°	504.3	531.0	594.0	640.1	666.7	698.3	768.6	778.3
424.3	47.5°	438.8	465.5	504.3	569.8	594.0	623.1	678.9	695.8
375.8	50°	385.5	412.2	446.1	504.3	540.7	564.9	611.0	635.2
327.3	52.5°	341.9	368.5	404.9	451.0	492.2	514.0	557.6	589.2
266.7	55°	286.1	332.2	358.8	400.0	455.8	475.2	509.1	550.4
232.8	57.5°	249.7	288.5	327.3	361.3	417.0	441.3	475.2	514.0
184.3	60°	210.9	247.3	293.4	322.5	375.8	407.3	443.7	480.1
140.6	62.5°	167.3	215.8	247.3	288.5	339.4	380.6	409.7	446.1
109.1	65°	123.6	177.0	213.4	257.0	305.5	349.1	373.4	412.2
77.6	67.5°	89.7	138.2	181.8	223.1	269.1	312.8	337.0	370.9
48.5	70°	70.3	101.8	150.3	186.7	235.2	271.5	298.2	320.0
31.5	72.5°	41.2	77.6	121.2	162.4	206.1	230.3	249.7	269.1
14.5	75°	26.7	60.6	99.4	135.8	167.3	189.1	206.1	223.1
7.3	77.5°	17.0	43.6	80.0	114.0	128.5	155.2	169.7	179.4
4.8	80°	9.7	33.9	70.3	92.1	104.3	121.2	135.8	147.9
4.8	82.5°	7.3	29.1	58.2	77.6	77.6	97.0	104.3	104.3
2.4	85°	4.8	24.2	46.1	72.7	58.2	72.7	67.9	67.9
2.4	87.5°	4.8	17.0	21.8	31.5	26.7	31.5	31.5	36.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
221116.6
214039.5
204113.6
187391.9
166887.9
144446.7
122956.0
102132.0
84227.1
68492.1
55370.7
34684.9
22327.2
15036.7
10093.2
6648.0
4347.1
2982.1
2167.5
1672.9
1348.0
1134.7
984.3
872.8
775.8
698.3
637.6
589.2
552.8
516.4
489.7
463.1
419.4
373.4
327.3
274.0
223.1
174.6
133.3
97.0
65.5
36.4
0.0

(END OF REPORT)