

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: P638731

Luminaire Tested: **EPH-VN-08-E-730-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638731
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-730-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52569.9 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 626.8
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



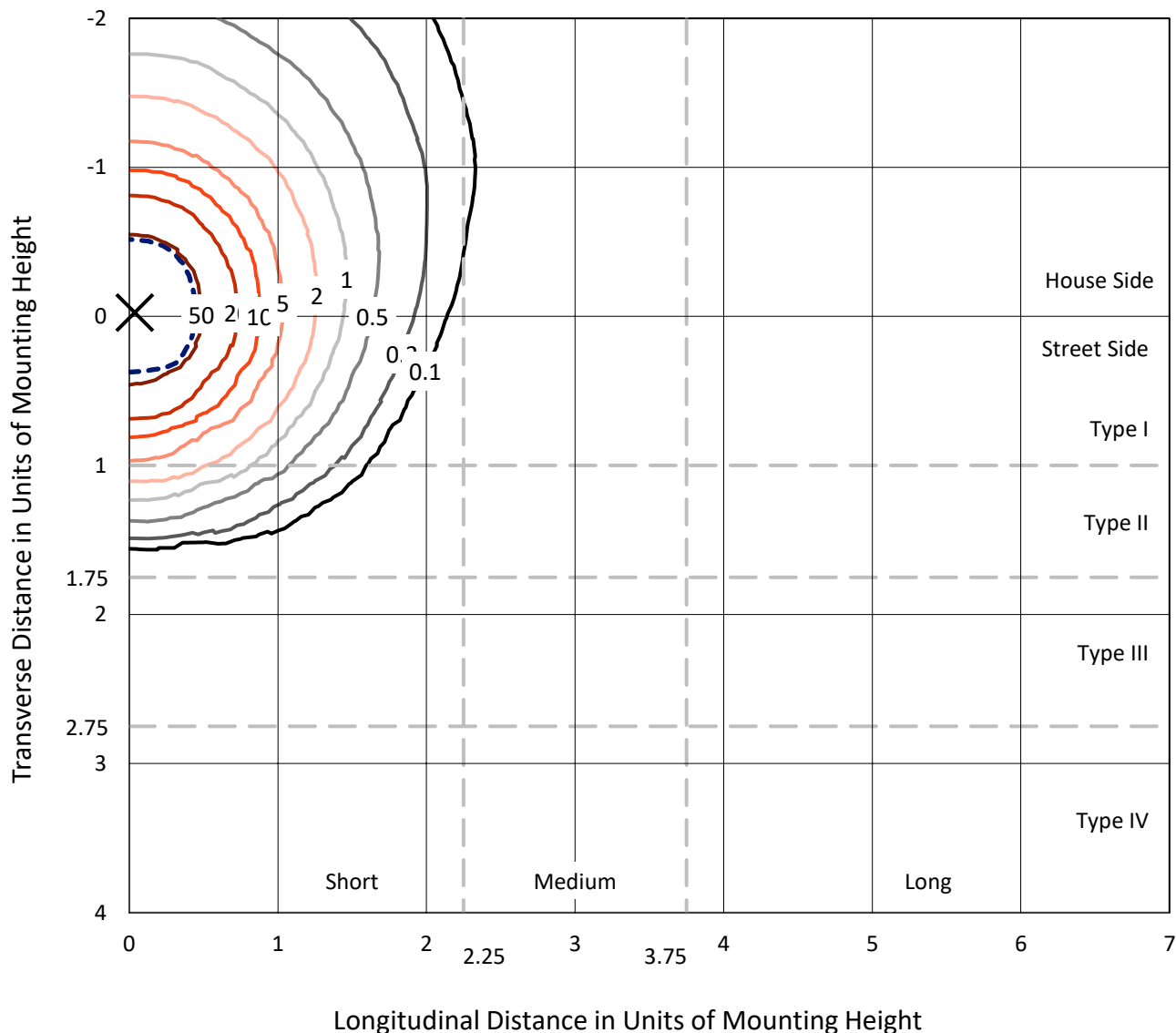
REPORT NUMBER: P638731

CATALOG NUMBER: EPH-VN-08-E-730-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

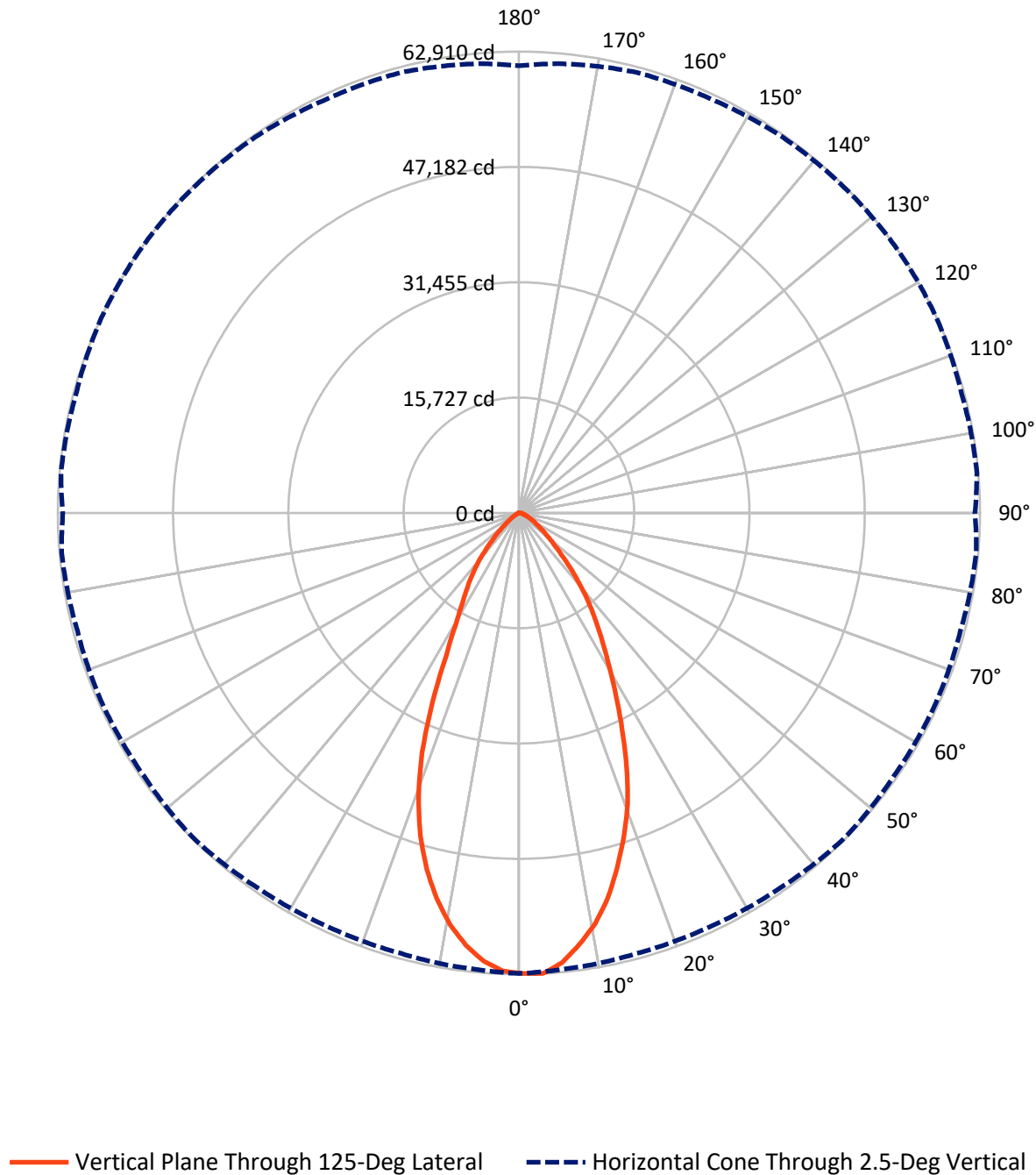


Based on 20 foot mounting height. Maximum calculated value = 157 fc

Type I - Short - N/A

REPORT NUMBER: P638731
CATALOG NUMBER: EPH-VN-08-E-730-U-66-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P638731

CATALOG NUMBER: EPH-VN-08-E-730-U-66-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29830.2	0.0	29830.2
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	22739.7	0.0	22739.7
	% Fixture	43.3	0.0	43.3
Total	Lumens	52569.9	0.0	52569.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5703.2	10.8
10°-20°	13595.2	25.9
20°-30°	13846.5	26.3
30°-40°	10325.3	19.6
40°-50°	5394.2	10.3
50°-60°	2268.8	4.3
60°-70°	926.6	1.8
70°-80°	389.9	0.7
80°-90°	120.2	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°	52569.9	100.0
0°-180°	52569.9	100.0

Coefficient of Utilization



REPORT NUMBER: P638731

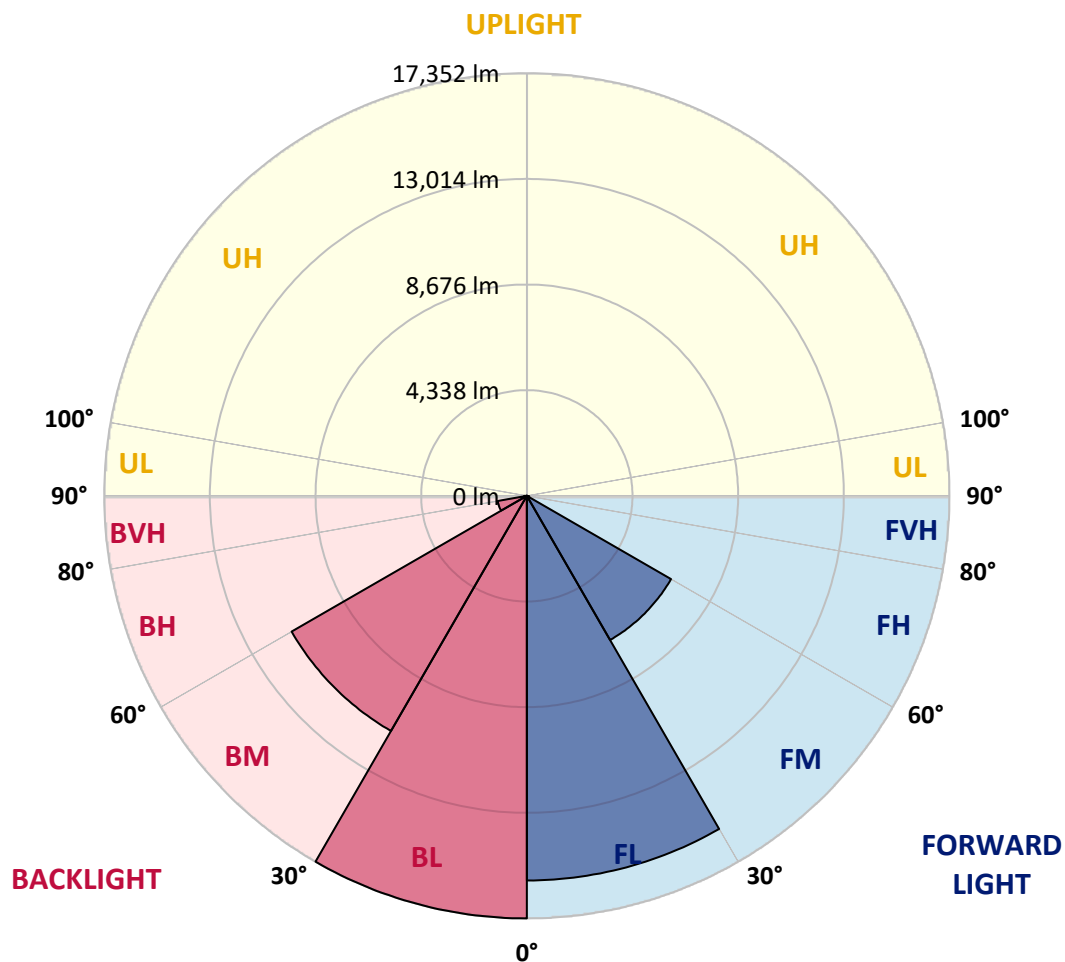
CATALOG NUMBER: EPH-VN-08-E-730-U-66-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	15792.6	30.0			
FM	(30°-60°)	6836.9	13.0			
FH	(60°-80°)	98.9	0.2			G0/660
FVH	(80°-90°)	11.2	0.0			G1/100
BL	(0°-30°)	17352.3	33.0	B5		
BM	(30°-60°)	11151.4	21.2	B5		
BH	(60°-80°)	1217.6	2.3	B3/2500		G3/2500
BVH	(80°-90°)	109.0	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short



REPORT NUMBER: P638731

CATALOG NUMBER: EPH-VN-08-E-730-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	62808.3	62808.3	62808.3	62808.3	62808.3	62808.3	62808.3	62808.3	62808.3	62808.3
2.5°	62815.1	62558.4	62193.8	62160.0	62349.1	62761.0	62497.7	62511.2	62349.1	62626.0
5°	61829.1	61586.0	61336.2	61005.3	61282.2	61457.7	61322.7	61174.1	60964.8	61234.9
7.5°	59965.3	59830.3	59458.9	59310.3	59479.1	59675.0	59384.6	59344.1	59053.7	59404.9
10°	57115.6	57061.6	56697.0	56609.2	56757.7	57054.9	56926.6	56899.6	56717.2	56683.5
12.5°	54157.9	53948.6	53496.1	53469.1	53691.9	54137.6	53793.2	53462.3	53563.6	53651.4
15°	46540.7	46317.8	47438.8	49201.3	50126.4	50092.7	50194.0	49795.5	49674.0	49714.5
17.5°	36998.9	36620.7	37025.9	39754.1	44150.2	46702.7	46000.4	45142.8	44683.6	44379.8
20°	31934.2	31954.5	31880.2	32582.5	35324.2	41145.1	40976.3	39321.9	38720.9	38471.0
22.5°	28854.9	28740.1	28578.1	28800.9	29537.0	32953.9	35243.1	33723.8	33514.4	33237.5
25°	25836.4	25836.4	25640.6	25863.4	26072.8	26120.0	28416.0	29037.3	28632.1	28632.1
27.5°	23223.1	23088.0	23000.2	23101.5	22824.6	21494.3	21784.7	24965.3	24688.4	24519.6
30°	20630.0	20589.5	20440.9	20575.9	19549.5	18050.4	17442.6	21068.9	21359.3	21298.5
32.5°	17030.7	17192.8	17854.5	18063.9	16308.1	15099.4	14518.6	17489.9	18651.4	18604.1
35°	11574.4	11709.4	12465.8	14964.3	13519.2	12654.8	12486.0	13910.9	15821.9	16004.3
37.5°	9217.6	9197.4	9413.5	9859.2	10865.3	10656.0	10608.7	10980.1	12904.7	12985.7
40°	7597.0	7569.9	7563.2	7198.5	6948.7	8859.7	8731.4	8508.6	10176.6	10338.6
42.5°	6124.8	6151.9	6172.1	5375.3	5010.6	6833.9	6759.6	6530.0	7981.9	8171.0
45°	4808.0	4801.3	4841.8	4004.4	3903.1	4369.1	5051.1	4868.8	6023.5	6226.1
47.5°	2491.8	2579.6	3126.6	3099.6	3146.8	3099.6	3822.1	3774.8	4531.2	4855.3
50°	1674.7	1701.7	1749.0	1755.7	2478.3	2282.5	2593.1	2937.5	3173.8	3673.6
52.5°	1296.5	1316.8	1195.3	1121.0	1519.4	1688.2	1701.7	2032.6	2214.9	2721.4
55°	722.6	810.3	871.1	877.9	837.4	1249.3	1242.5	1505.9	1647.7	1985.3
57.5°	94.5	114.8	175.6	567.2	560.5	695.5	871.1	1094.0	1175.0	1451.9
60°	6.8	13.5	20.3	87.8	371.4	405.2	594.3	682.0	817.1	1019.7
62.5°	0.0	0.0	6.8	20.3	74.3	236.3	310.6	357.9	479.5	668.5
65°	0.0	0.0	6.8	13.5	27.0	87.8	121.6	195.8	283.6	411.9
67.5°	0.0	0.0	6.8	13.5	20.3	33.8	54.0	87.8	148.6	249.9
70°	0.0	0.0	6.8	13.5	20.3	27.0	40.5	54.0	81.0	135.1
72.5°	0.0	0.0	6.8	6.8	13.5	33.8	33.8	40.5	54.0	74.3
75°	0.0	0.0	6.8	13.5	20.3	33.8	33.8	33.8	40.5	47.3
77.5°	0.0	0.0	6.8	13.5	20.3	33.8	27.0	33.8	33.8	33.8
80°	0.0	0.0	6.8	13.5	20.3	33.8	40.5	33.8	27.0	27.0
82.5°	0.0	0.0	6.8	20.3	20.3	47.3	47.3	47.3	20.3	20.3
85°	0.0	0.0	13.5	20.3	33.8	54.0	54.0	40.5	20.3	13.5
87.5°	0.0	0.0	6.8	13.5	13.5	27.0	40.5	33.8	13.5	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P638731

CATALOG NUMBER: EPH-VN-08-E-730-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
62808.3	0°	62808.3	62808.3	62808.3	62808.3	62808.3	62808.3	62808.3	62808.3	62808.3
62220.8	2.5°	62720.5	62551.7	62869.1	62909.6	62774.5	62605.7	62214.0	62180.3	61498.2
60843.2	5°	61532.0	61255.1	61457.7	61592.8	61545.5	61363.2	61201.1	61052.6	60438.0
58608.0	7.5°	59317.1	59215.8	59310.3	59411.6	59607.4	59411.6	59344.1	59188.8	58581.0
56406.6	10°	56859.0	56670.0	57027.9	56980.6	56926.6	56872.5	56588.9	56615.9	55900.1
53408.3	12.5°	53840.5	53523.1	53867.5	53908.0	53867.5	53678.4	53361.1	53496.1	52841.1
49356.6	15°	49782.0	49748.3	49998.1	50160.2	50275.0	50072.4	49964.4	50031.9	49640.2
44143.4	17.5°	44798.4	45237.4	46054.5	46331.3	46338.1	46547.4	46486.7	46405.6	46115.2
38369.7	20°	38937.0	39781.1	41037.1	42326.9	42698.3	42522.7	42441.7	42590.3	42158.1
32947.2	22.5°	33527.9	34250.5	35709.1	37593.1	38680.4	38788.4	38768.1	38639.8	38471.0
28605.1	25°	28936.0	29577.5	30975.3	32697.3	34784.0	35094.6	35108.1	35067.6	34919.0
24668.2	27.5°	25059.8	25836.4	26606.2	28145.9	30367.6	31650.6	31488.6	31441.3	31387.3
21345.8	30°	21548.4	22527.5	23250.1	24209.0	26201.1	27936.6	28105.4	28024.3	27896.0
18597.4	32.5°	18766.2	19346.9	20265.3	20913.6	22345.2	24310.3	24958.6	24897.8	24783.0
16119.1	35°	16348.7	16578.3	17300.8	18023.4	18975.5	20879.8	21838.7	21703.7	21683.4
13134.3	37.5°	13465.2	14235.0	14633.4	15362.7	16031.3	17510.2	18833.7	18772.9	18779.7
10561.5	40°	10872.1	11317.8	12107.9	12722.4	13336.9	14417.3	15889.5	15930.0	15916.5
8177.7	42.5°	8346.5	8778.7	9609.3	10277.8	10824.8	11493.4	12898.0	12945.2	13006.0
6367.9	45°	6516.5	6793.4	7401.1	8096.7	8677.4	9082.6	10149.5	10453.4	10460.2
4936.3	47.5°	5057.9	5375.3	5807.5	6476.0	7043.2	7333.6	8110.2	8522.1	8501.8
3788.4	50°	3970.7	4261.1	4612.2	5138.9	5753.4	5983.0	6557.0	6962.2	6941.9
2856.5	52.5°	3038.8	3410.2	3720.8	4126.0	4727.0	4922.8	5334.8	5800.7	5733.2
2093.4	55°	2302.7	2680.9	2971.3	3308.9	3855.9	4105.7	4389.4	4760.8	4774.3
1620.7	57.5°	1735.5	2127.1	2390.5	2734.9	3146.8	3423.7	3639.8	4038.2	4031.5
1107.5	60°	1242.5	1580.2	1897.6	2255.5	2572.8	2890.2	3038.8	3416.9	3430.5
783.3	62.5°	898.1	1215.5	1519.4	1830.0	2113.6	2424.3	2559.3	2856.5	2897.0
513.2	65°	628.0	850.9	1202.0	1438.4	1755.7	1985.3	2160.9	2417.5	2464.8
303.9	67.5°	405.2	614.5	952.2	1161.5	1451.9	1647.7	1830.0	2032.6	2093.4
195.8	70°	243.1	465.9	709.0	931.9	1195.3	1370.8	1546.4	1722.0	1755.7
94.5	72.5°	155.3	324.1	513.2	756.3	958.9	1148.0	1303.3	1431.6	1330.3
60.8	75°	87.8	222.8	405.2	594.3	776.6	958.9	1087.2	1154.7	925.1
40.5	77.5°	54.0	162.1	330.9	479.5	601.0	769.8	850.9	891.4	661.8
27.0	80°	33.8	121.6	276.9	391.7	391.7	567.2	661.8	695.5	479.5
20.3	82.5°	27.0	87.8	216.1	297.1	263.4	425.4	520.0	526.7	337.6
13.5	85°	20.3	67.5	135.1	195.8	182.3	297.1	303.9	337.6	222.8
13.5	87.5°	13.5	40.5	81.0	114.8	101.3	141.8	162.1	182.3	121.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
62808.3
60964.8
59945.1
58452.7
55657.0
52652.0
49167.5
45683.1
41847.4
38146.9
34419.3
31069.9
27734.0
24479.1
21460.6
18563.6
15680.1
12803.4
10284.6
8427.6
6941.9
5739.9
4774.3
4017.9
3396.7
2883.5
2451.3
2086.6
1728.7
1235.8
877.9
621.3
445.7
310.6
202.6
108.0
0.0

(END OF REPORT)