

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: P638634

Luminaire Tested: **EPH-VN-08-D-740-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638634
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-D-740-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53767.6 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

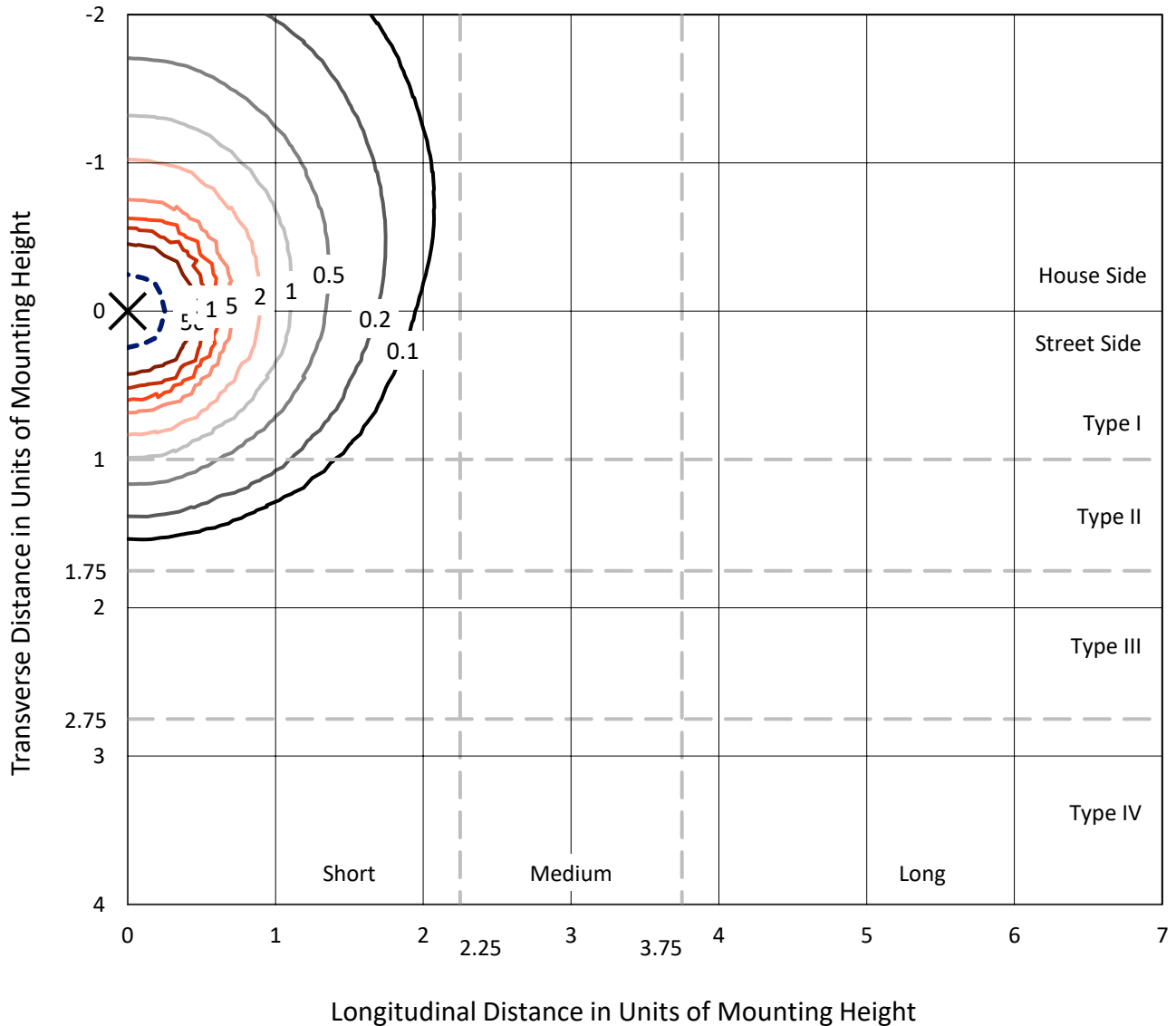
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

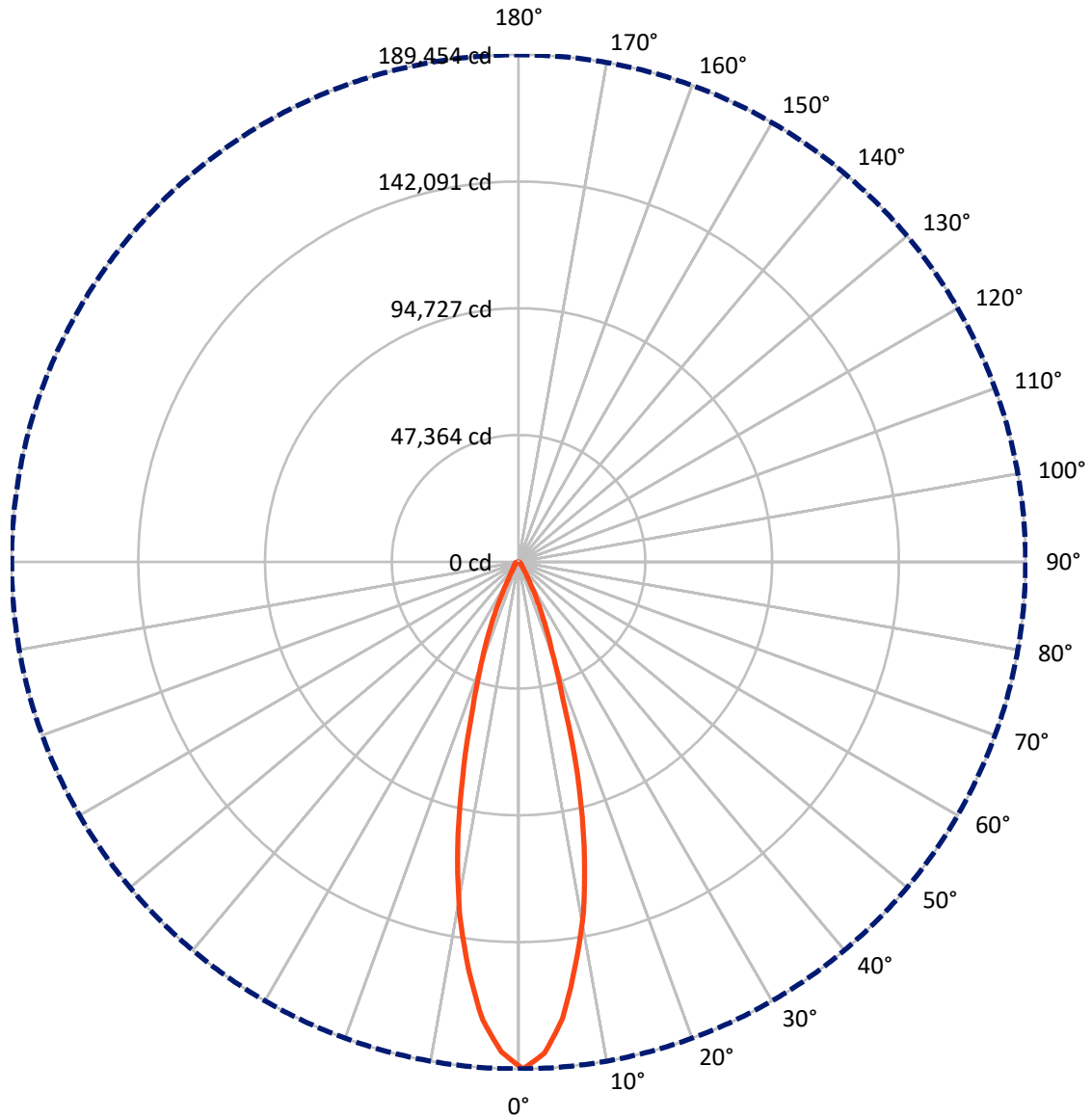
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 473.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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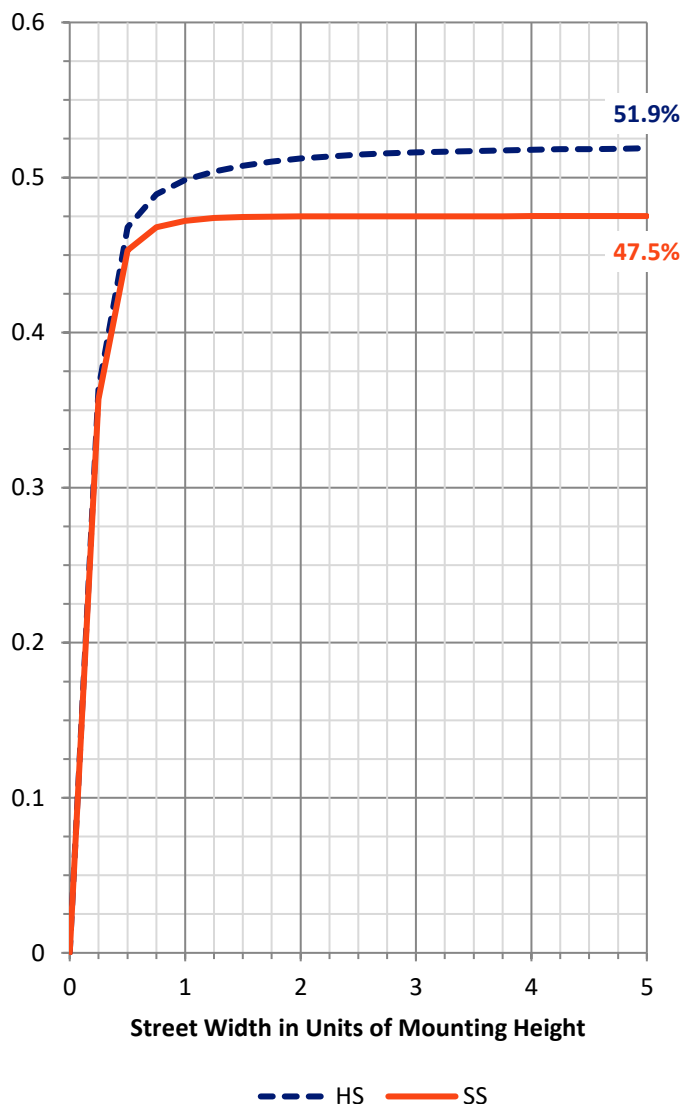
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28349.9	0.0	28349.9
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	25417.7	0.0	25417.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	53767.6	0.0	53767.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15290.6	28.4
10°-20°	23157.5	43.1
20°-30°	9772.6	18.2
30°-40°	2548.8	4.7
40°-50°	1289.1	2.4
50°-60°	842.6	1.6
60°-70°	504.8	0.9
70°-80°	265.6	0.5
80°-90°	95.9	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°	53767.6	100.0
0°-180°	53767.6	100.0

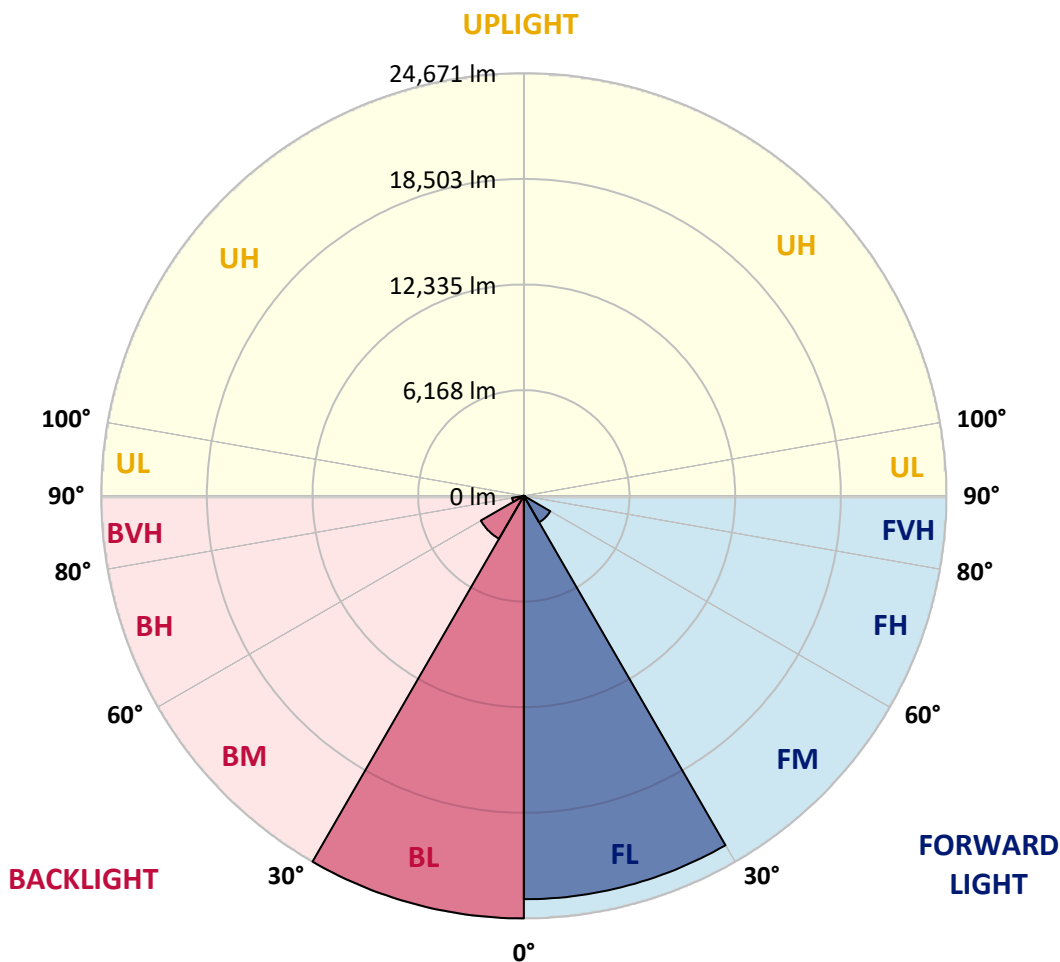


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	23549.9	43.8			
FM (30°-60°)	1783.5	3.3			
FH (60°-80°)	72.7	0.1			G0/660
FVH (80°-90°)	11.7	0.0			G1/100
BL (0°-30°)	24670.9	45.9	B5		
BM (30°-60°)	2897.1	5.4	B3/5000		
BH (60°-80°)	697.7	1.3	B2/1000		G1/1800
BVH (80°-90°)	84.3	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	189454.0	189454.0	189454.0	189454.0	189454.0	189454.0	189454.0	189454.0	189454.0	189454.0
2.5°	183935.1	184037.7	183657.3	184478.5	183838.5	185553.3	184701.9	186030.3	185583.5	186326.2
5°	171375.7	171206.6	171097.9	172372.0	172003.6	173845.3	172667.8	172281.4	173477.0	173259.6
7.5°	152409.7	152856.6	152603.0	152935.1	153122.2	155223.5	155887.7	155368.4	155386.6	155688.5
10°	132966.8	132308.6	131372.7	131994.6	133311.0	134228.8	133860.4	134621.3	134452.2	135170.7
12.5°	109043.5	109562.8	109037.5	108482.0	110782.5	110528.9	111169.0	111585.6	110541.0	112865.7
15°	82137.4	82409.1	83049.1	83006.9	84776.1	85132.3	85047.8	85488.6	84673.4	85059.9
17.5°	52767.7	53685.5	55406.4	58316.8	61589.5	61969.9	61873.2	61511.0	61118.5	60683.7
20°	35444.1	35347.5	35969.4	36820.8	43595.7	45389.0	45334.7	44199.5	42557.1	42243.1
22.5°	24829.0	25010.1	24925.6	25771.0	27171.8	32117.1	31507.2	30353.9	29816.5	29466.3
25°	16333.3	16266.9	16689.5	16943.1	18144.7	18748.6	20886.1	20457.4	19630.1	19720.7
27.5°	9957.0	10041.5	10198.5	10415.9	11267.2	11074.0	12293.7	12456.8	12191.1	11907.3
30°	6110.6	6171.0	6297.8	6454.8	6750.7	6539.4	6877.5	7463.2	7366.6	7167.3
32.5°	4148.2	4154.3	4244.8	4305.2	4269.0	4069.7	4178.4	4733.9	4746.0	4727.9
35°	2982.9	2982.9	3067.4	3115.7	3013.1	2850.0	2868.1	3212.3	3363.3	3393.5
37.5°	2059.0	2065.1	2210.0	2354.9	2240.2	2197.9	2125.4	2354.9	2596.4	2632.6
40°	1563.9	1557.9	1630.3	1739.0	1751.1	1672.6	1696.7	1841.6	2089.2	2119.4
42.5°	1268.0	1274.1	1310.3	1298.2	1304.2	1406.9	1443.1	1509.5	1739.0	1793.3
45°	1068.8	1074.8	1092.9	1032.5	1008.4	1165.4	1213.7	1249.9	1443.1	1509.5
47.5°	881.6	893.7	911.8	845.3	833.3	935.9	1020.5	1056.7	1225.8	1298.2
50°	634.0	646.1	712.5	676.3	712.5	736.7	851.4	905.7	1020.5	1117.1
52.5°	458.9	471.0	489.1	495.1	585.7	597.8	682.3	766.8	821.2	929.9
55°	362.3	374.4	362.3	350.2	428.7	495.1	525.3	615.9	658.2	785.0
57.5°	205.3	217.4	235.5	271.7	283.8	380.4	410.6	489.1	525.3	646.1
60°	36.2	42.3	66.4	163.0	199.3	241.5	307.9	374.4	422.7	507.2
62.5°	6.0	6.0	12.1	36.2	114.7	169.1	223.4	265.7	307.9	386.4
65°	0.0	0.0	6.0	12.1	30.2	96.6	120.8	157.0	211.3	277.8
67.5°	0.0	0.0	6.0	12.1	18.1	36.2	54.3	96.6	120.8	187.2
70°	0.0	0.0	6.0	12.1	18.1	24.2	30.2	42.3	72.5	114.7
72.5°	0.0	0.0	6.0	12.1	18.1	24.2	30.2	36.2	36.2	72.5
75°	0.0	0.0	6.0	12.1	18.1	30.2	36.2	36.2	30.2	30.2
77.5°	0.0	0.0	6.0	12.1	24.2	36.2	42.3	36.2	24.2	24.2
80°	0.0	0.0	12.1	18.1	30.2	42.3	54.3	42.3	24.2	12.1
82.5°	0.0	0.0	12.1	24.2	30.2	48.3	66.4	54.3	24.2	12.1
85°	0.0	0.0	6.0	18.1	36.2	48.3	66.4	48.3	24.2	6.0
87.5°	0.0	0.0	6.0	6.0	12.1	18.1	36.2	30.2	12.1	6.0
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°
189454.0	0°	189454.0	189454.0	189454.0	189454.0	189454.0	189454.0	189454.0	189454.0	189454.0
184919.3	2.5°	185982.0	186948.1	187147.4	186881.7	187268.2	186573.8	186042.4	184665.7	183838.5
173193.2	5°	174310.2	174165.3	175173.7	175505.8	175463.5	174932.2	174189.5	173356.2	172547.1
155102.8	7.5°	156068.9	156256.1	157173.9	157759.6	157463.7	156799.5	156286.3	155658.3	155114.8
135430.4	10°	136668.2	135382.1	136523.3	136523.3	137314.3	135436.4	135611.5	134029.5	134102.0
112823.4	12.5°	113209.9	113674.8	113862.0	114399.4	113475.5	112479.2	111259.5	111018.0	110263.2
84323.2	15°	85536.9	86865.3	85724.1	87674.4	86732.4	85693.9	85506.7	83634.9	84226.6
61160.7	17.5°	60858.8	62326.1	62785.0	63902.1	63044.7	62428.8	61649.8	61082.2	61040.0
42816.7	20°	43154.9	44628.2	44966.3	46306.8	46210.2	46017.0	45358.8	44640.3	43861.4
29146.3	22.5°	29587.1	30788.7	31911.8	33717.2	33687.0	33119.4	33053.0	32038.6	32056.7
19690.5	25°	19895.8	20771.3	21037.0	22884.7	23090.0	23029.6	22685.4	21743.5	22099.7
12028.1	27.5°	12040.1	12807.0	13706.7	14358.8	14974.7	14878.1	14533.9	14008.6	13779.1
7227.7	30°	7420.9	7765.1	8097.2	8882.2	9250.5	9443.7	9280.7	8791.6	8827.8
4758.1	32.5°	4860.7	5150.6	5392.1	5887.2	6080.4	6436.7	6370.3	6267.6	6146.9
3423.6	35°	3544.4	3755.7	3918.8	4148.2	4395.8	4697.7	4746.0	4703.7	4655.4
2644.7	37.5°	2705.1	2922.5	3109.7	3206.3	3399.5	3635.0	3767.8	3761.8	3725.6
2155.6	40°	2197.9	2360.9	2530.0	2656.8	2789.6	2964.7	3127.8	3145.9	3145.9
1811.5	42.5°	1835.6	1974.5	2143.6	2276.4	2373.0	2536.0	2705.1	2717.2	2705.1
1533.7	45°	1569.9	1690.7	1853.7	2010.7	2089.2	2210.0	2373.0	2409.2	2385.1
1316.3	47.5°	1364.6	1473.3	1612.2	1781.3	1865.8	1974.5	2125.4	2167.7	2161.7
1135.2	50°	1171.4	1298.2	1437.1	1576.0	1684.7	1787.3	1932.2	1980.5	1962.4
966.1	52.5°	1032.5	1147.3	1268.0	1419.0	1545.8	1636.3	1751.1	1835.6	1811.5
815.2	55°	863.5	1002.3	1129.1	1255.9	1412.9	1509.5	1618.2	1720.9	1696.7
688.4	57.5°	748.7	863.5	1008.4	1123.1	1280.1	1394.8	1503.5	1612.2	1606.2
561.6	60°	628.0	748.7	887.6	1008.4	1153.3	1280.1	1388.8	1509.5	1521.6
422.7	62.5°	495.1	640.0	760.8	899.7	1044.6	1183.5	1280.1	1400.9	1419.0
320.0	65°	374.4	525.3	658.2	791.0	935.9	1086.9	1171.4	1274.1	1292.2
235.5	67.5°	277.8	404.6	561.6	682.3	833.3	978.2	1056.7	1141.2	1171.4
144.9	70°	211.3	307.9	471.0	585.7	742.7	857.4	942.0	1014.4	1038.6
96.6	72.5°	132.8	241.5	380.4	501.2	640.0	742.7	803.1	845.3	881.6
54.3	75°	90.6	187.2	307.9	428.7	531.4	609.9	664.2	700.4	730.6
24.2	77.5°	54.3	144.9	253.6	356.3	422.7	483.1	537.4	561.6	579.7
18.1	80°	30.2	108.7	211.3	289.8	332.1	374.4	416.6	446.8	458.9
12.1	82.5°	18.1	84.5	169.1	223.4	241.5	283.8	326.1	344.2	344.2
6.0	85°	12.1	60.4	114.7	163.0	175.1	205.3	217.4	229.5	241.5
6.0	87.5°	12.1	36.2	72.5	90.6	96.6	108.7	114.7	126.8	138.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
189454.0
183228.6
171641.3
153273.2
133395.5
109574.9
83634.9
59916.9
43523.2
31706.5
21538.2
13579.9
8670.8
6104.6
4637.3
3707.4
3109.7
2693.0
2385.1
2149.6
1950.3
1805.4
1708.8
1612.2
1527.7
1431.0
1310.3
1183.5
1050.6
875.5
724.6
573.6
446.8
338.1
235.5
132.8
0.0

(END OF REPORT)