

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: P638627

Luminaire Tested: **EPH-VN-07-E-735-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638627
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-07-E-735-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53700.5 lumens
Efficiency: N/A
Efficacy: 100.8 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): 532.7
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

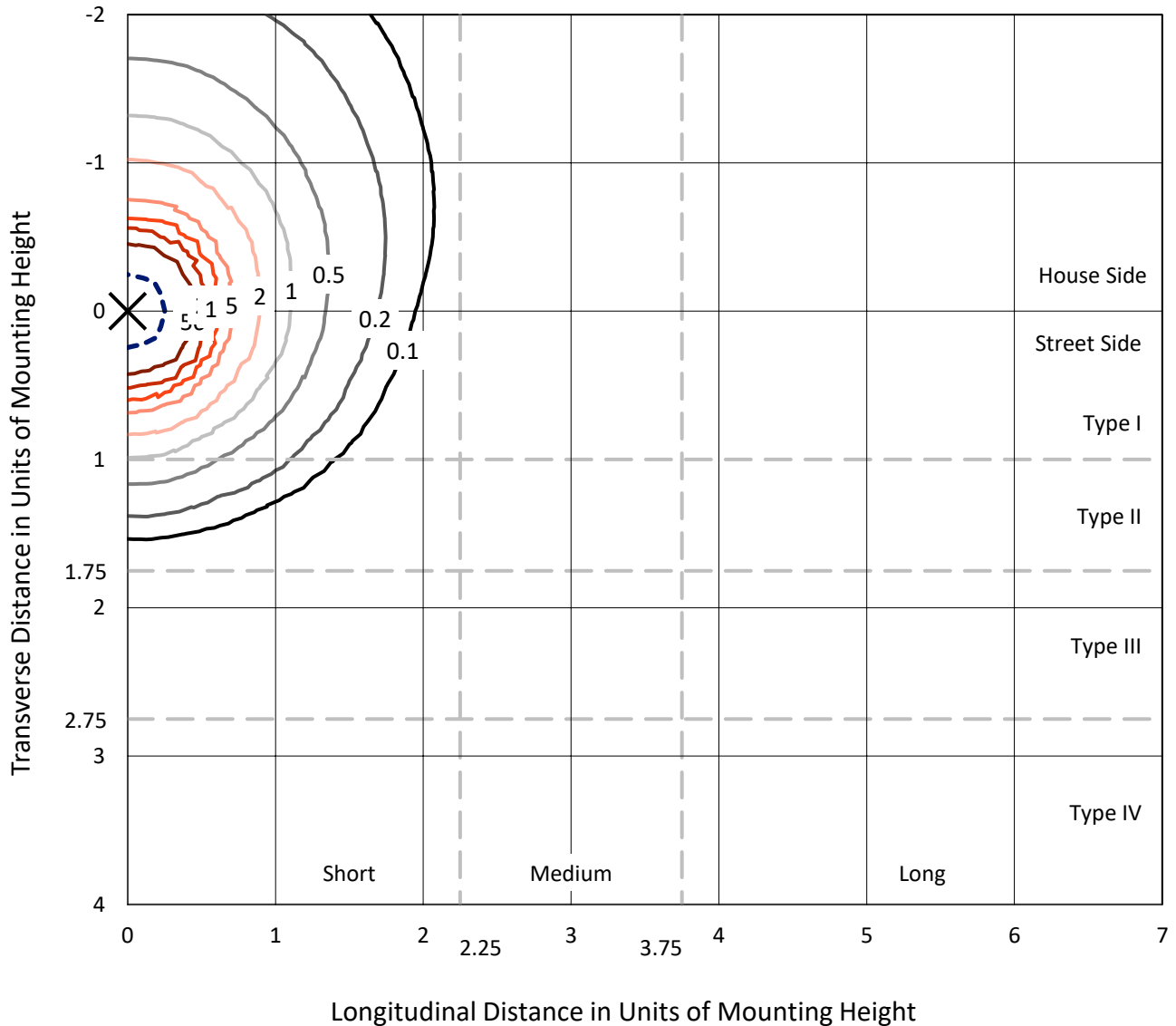




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Iso-Footcandle Lines of Horizontal Illumination

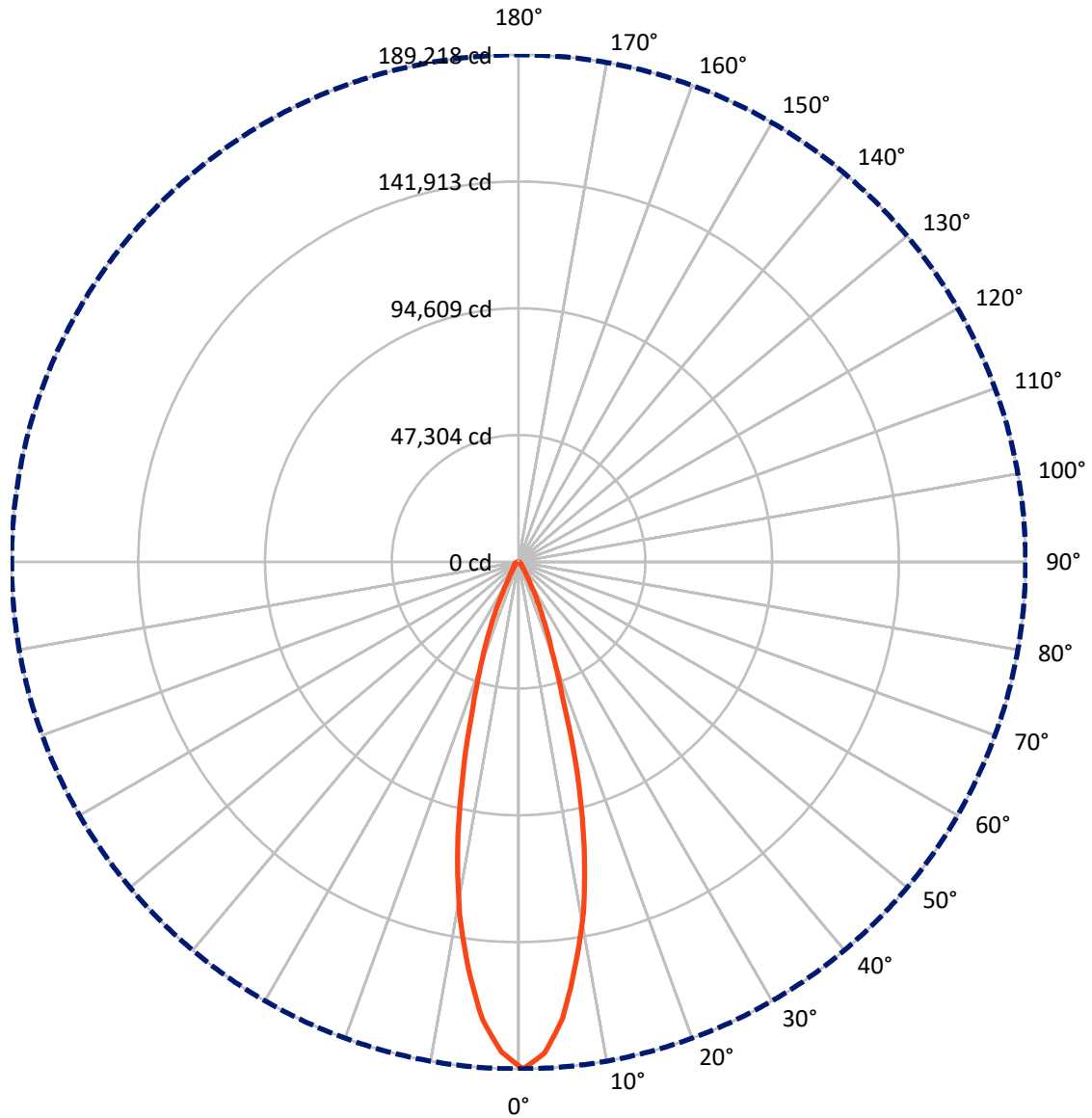
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 473 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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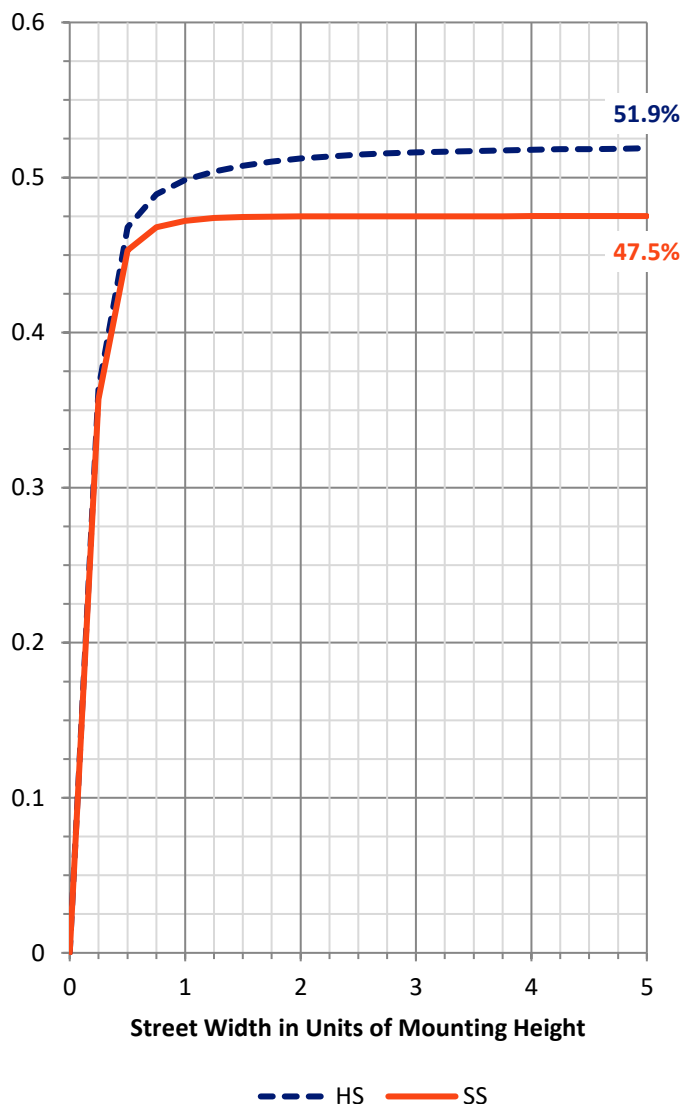
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28314.5	0.0	28314.5
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	25386.0	0.0	25386.0
	% Fixture	47.3	0.0	47.3
Total	Lumens	53700.5	0.0	53700.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15271.5	28.4
10°-20°	23128.6	43.1
20°-30°	9760.4	18.2
30°-40°	2545.6	4.7
40°-50°	1287.5	2.4
50°-60°	841.6	1.6
60°-70°	504.2	0.9
70°-80°	265.2	0.5
80°-90°	95.8	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°	53700.5	100.0
0°-180°	53700.5	100.0

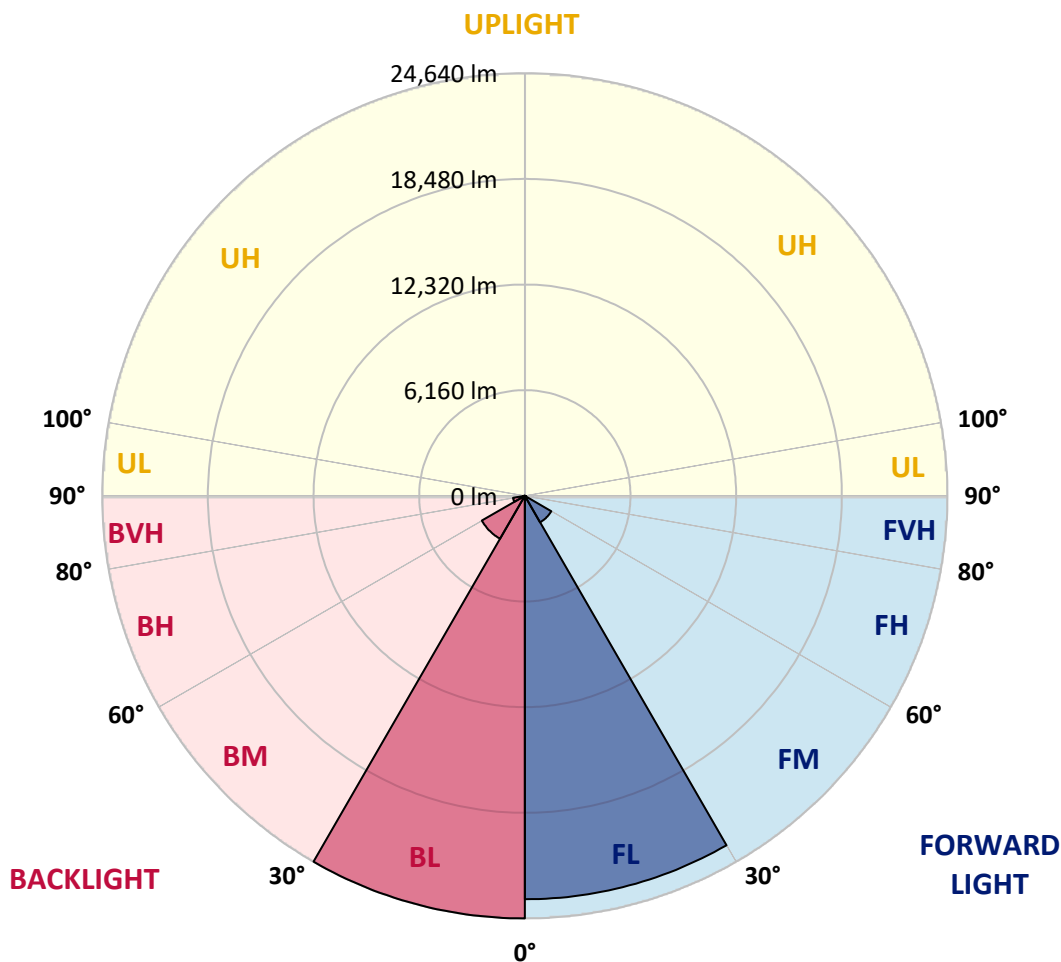


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	23520.5	43.8			
FM (30°-60°)	1781.3	3.3			
FH (60°-80°)	72.6	0.1			G0/660
FVH (80°-90°)	11.6	0.0			G1/100
BL (0°-30°)	24640.1	45.9	B5		
BM (30°-60°)	2893.4	5.4	B3/5000		
BH (60°-80°)	696.9	1.3	B2/1000		G1/1800
BVH (80°-90°)	84.2	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°	189217.5	189217.5	189217.5	189217.5	189217.5	189217.5	189217.5	189217.5	189217.5	189217.5
2.5°	183705.5	183808.0	183428.0	184248.2	183609.0	185321.7	184471.3	185798.1	185351.8	186093.6
5°	171161.7	170992.9	170884.3	172156.8	171788.9	173628.3	172452.3	172066.3	173260.4	173043.3
7.5°	152219.5	152665.7	152412.4	152744.1	152931.1	155029.7	155693.1	155174.5	155192.6	155494.1
10°	132800.8	132143.5	131208.7	131829.9	133144.5	134061.2	133693.3	134453.2	134284.3	135002.0
12.5°	108907.4	109426.0	108901.4	108346.5	110644.2	110390.9	111030.2	111446.3	110403.0	112724.8
15°	82034.8	82306.2	82945.5	82903.3	84670.2	85026.0	84941.6	85381.8	84567.7	84953.7
17.5°	52701.8	53618.5	55337.2	58244.0	61512.6	61892.5	61796.0	61434.2	61042.2	60608.0
20°	35399.9	35303.4	35924.5	36774.9	43541.2	45332.3	45278.1	44144.3	42504.0	42190.4
22.5°	24798.0	24978.9	24894.5	25738.8	27137.9	32077.0	31467.9	30316.0	29779.3	29429.5
25°	16312.9	16246.6	16668.7	16922.0	18122.1	18725.1	20860.0	20431.8	19605.6	19696.1
27.5°	9944.5	10029.0	10185.8	10402.9	11253.2	11060.2	12278.4	12441.2	12175.9	11892.4
30°	6103.0	6163.3	6290.0	6446.8	6742.3	6531.2	6868.9	7453.9	7357.4	7158.4
32.5°	4143.1	4149.1	4239.5	4299.8	4263.7	4064.7	4173.2	4728.0	4740.1	4722.0
35°	2979.1	2979.1	3063.6	3111.8	3009.3	2846.5	2864.6	3208.3	3359.1	3389.2
37.5°	2056.4	2062.5	2207.2	2352.0	2237.4	2195.2	2122.8	2352.0	2593.2	2629.4
40°	1561.9	1555.9	1628.3	1736.8	1748.9	1670.5	1694.6	1839.3	2086.6	2116.8
42.5°	1266.4	1272.5	1308.6	1296.6	1302.6	1405.1	1441.3	1507.7	1736.8	1791.1
45°	1067.4	1073.5	1091.5	1031.2	1007.1	1163.9	1212.2	1248.3	1441.3	1507.7
47.5°	880.5	892.5	910.6	844.3	832.2	934.7	1019.2	1055.4	1224.2	1296.6
50°	633.2	645.3	711.6	675.4	711.6	735.7	850.3	904.6	1019.2	1115.7
52.5°	458.3	470.4	488.5	494.5	585.0	597.0	681.5	765.9	820.2	928.7
55°	361.8	373.9	361.8	349.8	428.2	494.5	524.7	615.1	657.3	784.0
57.5°	205.0	217.1	235.2	271.4	283.4	379.9	410.1	488.5	524.7	645.3
60°	36.2	42.2	66.3	162.8	199.0	241.2	307.6	373.9	422.1	506.6
62.5°	6.0	6.0	12.1	36.2	114.6	168.9	223.1	265.3	307.6	386.0
65°	0.0	0.0	6.0	12.1	30.2	96.5	120.6	156.8	211.1	277.4
67.5°	0.0	0.0	6.0	12.1	18.1	36.2	54.3	96.5	120.6	186.9
70°	0.0	0.0	6.0	12.1	18.1	24.1	30.2	42.2	72.4	114.6
72.5°	0.0	0.0	6.0	12.1	18.1	24.1	30.2	36.2	36.2	72.4
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	24.1	36.2	42.2	36.2	24.1	24.1
80°	0.0	0.0	12.1	18.1	30.2	42.2	54.3	42.2	24.1	12.1
82.5°	0.0	0.0	12.1	24.1	30.2	48.2	66.3	54.3	24.1	12.1
85°	0.0	0.0	6.0	18.1	36.2	48.2	66.3	48.2	24.1	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°
189217.5	0°	189217.5	189217.5	189217.5	189217.5	189217.5	189217.5	189217.5	189217.5	189217.5
184688.5	2.5°	185749.8	186714.7	186913.8	186648.4	187034.4	186340.8	185810.2	184435.2	183609.0
172976.9	5°	174092.6	173947.9	174955.0	175286.7	175244.5	174713.8	173972.0	173139.8	172331.7
154909.1	7.5°	155874.0	156061.0	156977.6	157562.6	157267.1	156603.7	156091.1	155464.0	154921.2
135261.3	10°	136497.6	135213.1	136352.8	136352.8	137142.9	135267.3	135442.2	133862.2	133934.6
112682.6	12.5°	113068.5	113532.9	113719.8	114256.6	113333.9	112338.8	111120.6	110879.4	110125.6
84217.9	15°	85430.1	86756.8	85617.0	87564.9	86624.2	85586.9	85399.9	83530.4	84121.4
61084.4	17.5°	60782.9	62248.3	62706.6	63822.3	62965.9	62350.8	61572.9	61006.0	60963.8
42763.3	20°	43101.0	44572.5	44910.2	46249.0	46152.5	45959.5	45302.2	44584.5	43806.6
29109.9	22.5°	29550.2	30750.3	31872.0	33675.1	33645.0	33078.1	33011.7	31998.6	32016.7
19665.9	25°	19871.0	20745.4	21010.8	22856.1	23061.2	23000.9	22657.1	21716.3	22072.2
12013.0	27.5°	12025.1	12791.0	13689.6	14340.9	14956.0	14859.5	14515.8	13991.1	13761.9
7218.7	30°	7411.7	7755.4	8087.1	8871.1	9238.9	9431.9	9269.1	8780.6	8816.8
4752.1	32.5°	4854.7	5144.1	5385.4	5879.9	6072.9	6428.7	6362.3	6259.8	6139.2
3419.4	35°	3540.0	3751.1	3913.9	4143.1	4390.3	4691.8	4740.1	4697.9	4649.6
2641.4	37.5°	2701.7	2918.8	3105.8	3202.3	3395.3	3630.4	3763.1	3757.1	3720.9
2152.9	40°	2195.2	2358.0	2526.8	2653.5	2786.2	2961.0	3123.9	3142.0	3142.0
1809.2	42.5°	1833.3	1972.0	2140.9	2273.6	2370.0	2532.9	2701.7	2713.8	2701.7
1531.8	45°	1568.0	1688.6	1851.4	2008.2	2086.6	2207.2	2370.0	2406.2	2382.1
1314.7	47.5°	1362.9	1471.5	1610.2	1779.0	1863.5	1972.0	2122.8	2165.0	2159.0
1133.8	50°	1169.9	1296.6	1435.3	1574.0	1682.5	1785.1	1929.8	1978.1	1960.0
964.9	52.5°	1031.2	1145.8	1266.4	1417.2	1543.8	1634.3	1748.9	1833.3	1809.2
814.1	55°	862.4	1001.1	1127.7	1254.4	1411.2	1507.7	1616.2	1718.7	1694.6
687.5	57.5°	747.8	862.4	1007.1	1121.7	1278.5	1393.1	1501.6	1610.2	1604.2
560.8	60°	627.2	747.8	886.5	1007.1	1151.9	1278.5	1387.0	1507.7	1519.7
422.1	62.5°	494.5	639.2	759.9	898.6	1043.3	1182.0	1278.5	1399.1	1417.2
319.6	65°	373.9	524.7	657.3	790.0	934.7	1085.5	1169.9	1272.5	1290.6
235.2	67.5°	277.4	404.1	560.8	681.5	832.2	977.0	1055.4	1139.8	1169.9
144.7	70°	211.1	307.6	470.4	585.0	741.8	856.4	940.8	1013.1	1037.3
96.5	72.5°	132.7	241.2	379.9	500.5	639.2	741.8	802.1	844.3	880.5
54.3	75°	90.5	186.9	307.6	428.2	530.7	609.1	663.4	699.6	729.7
24.1	77.5°	54.3	144.7	253.3	355.8	422.1	482.5	536.7	560.8	578.9
18.1	80°	30.2	108.6	211.1	289.5	331.7	373.9	416.1	446.3	458.3
12.1	82.5°	18.1	84.4	168.9	223.1	241.2	283.4	325.7	343.7	343.7
6.0	85°	12.1	60.3	114.6	162.8	174.9	205.0	217.1	229.2	241.2
6.0	87.5°	12.1	36.2	72.4	90.5	96.5	108.6	114.6	126.6	138.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
189217.5
182999.9
171427.1
153081.9
133229.0
109438.1
83530.4
59842.1
43468.9
31666.9
21511.3
13562.9
8660.0
6097.0
4631.5
3702.8
3105.8
2689.7
2382.1
2146.9
1947.9
1803.2
1706.7
1610.2
1525.8
1429.3
1308.6
1182.0
1049.3
874.4
723.7
572.9
446.3
337.7
235.2
132.7
0.0

(END OF REPORT)