

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: P638662

Luminaire Tested: **EPH-VN-06-E-940-U-44-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638662  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-06-E-940-U-44-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 4 distribution lens and Visor  
Light Source: (96) 4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36876.9 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

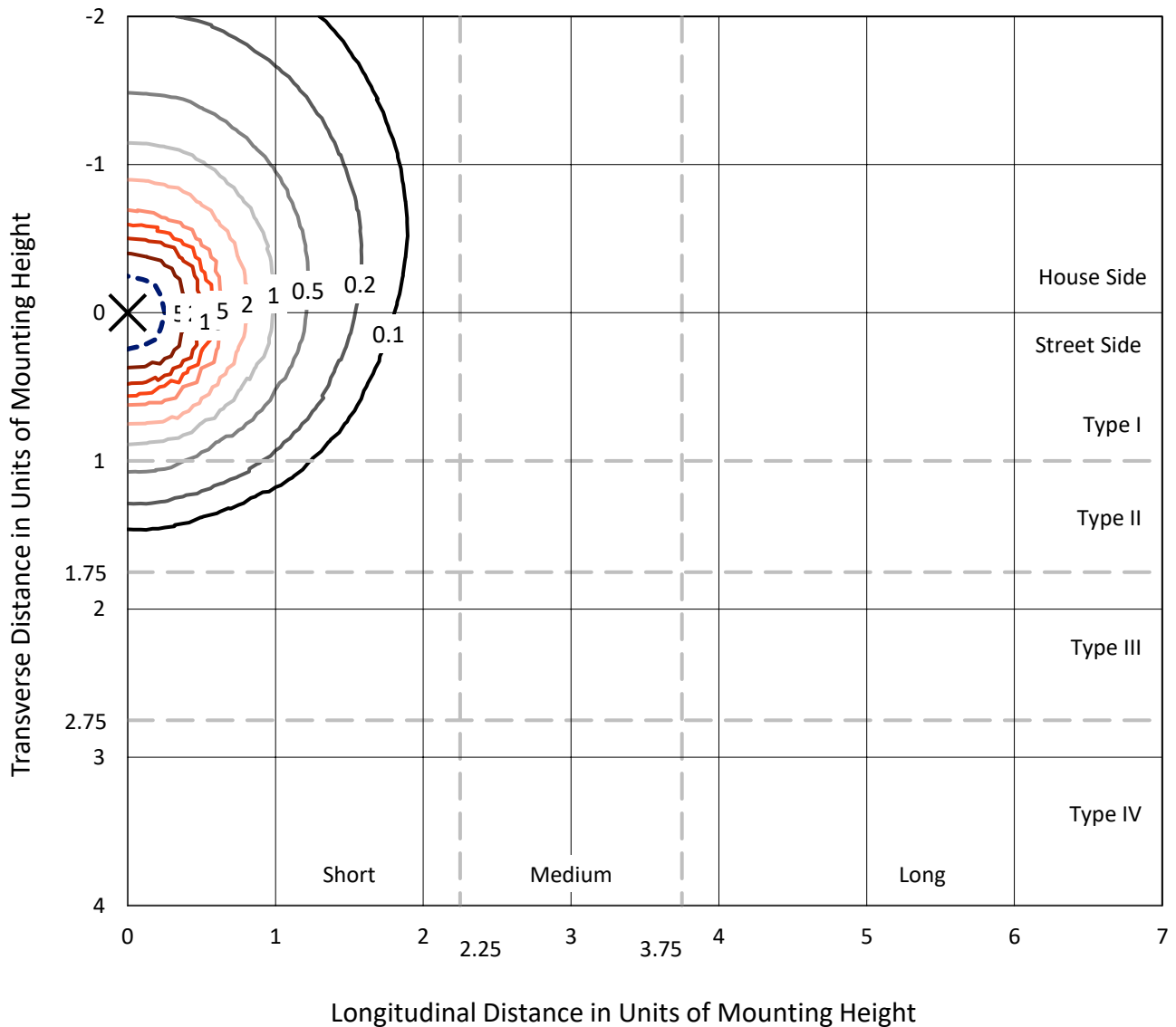
Input Watts (W): 464.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

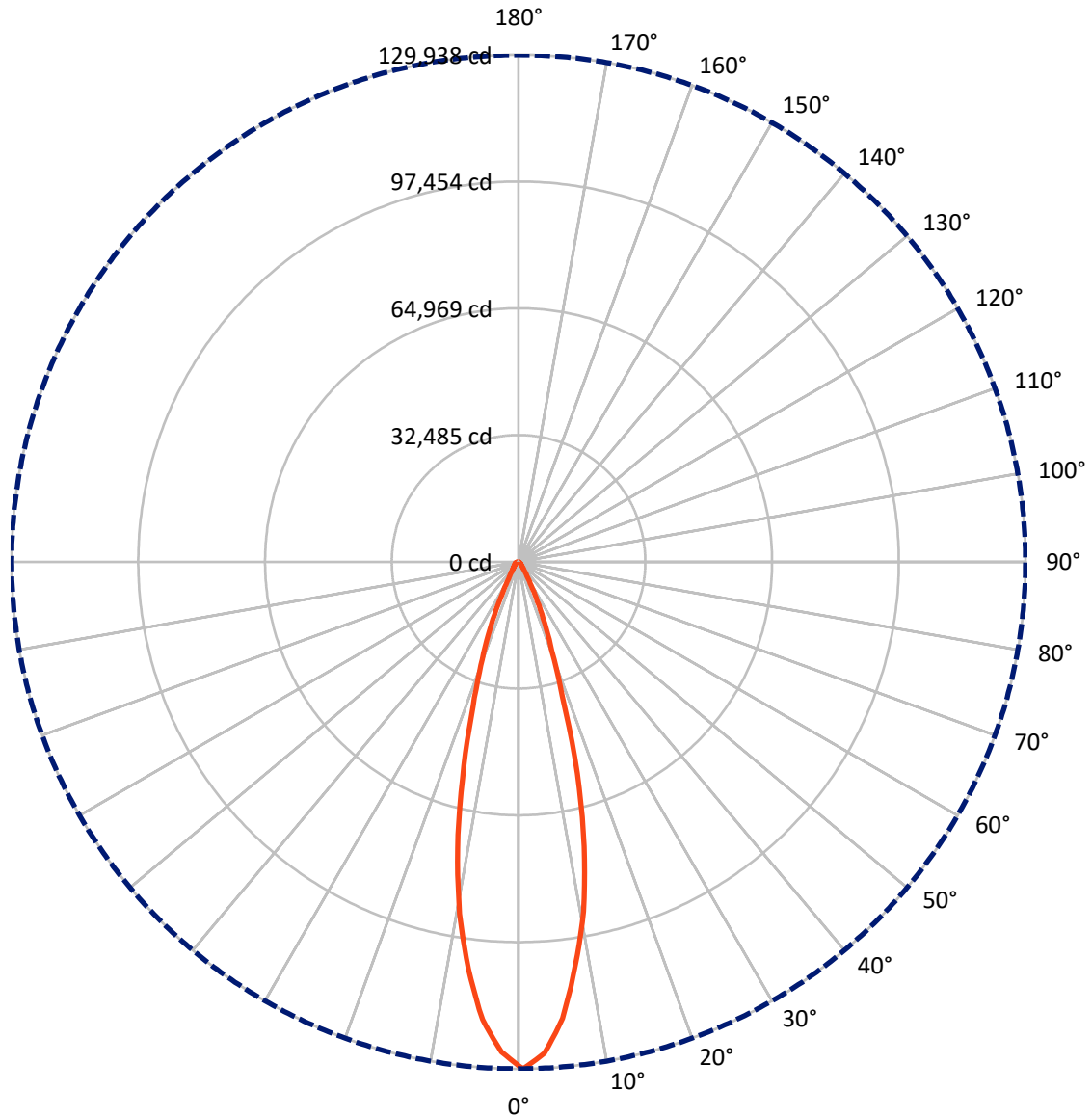
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 324.8 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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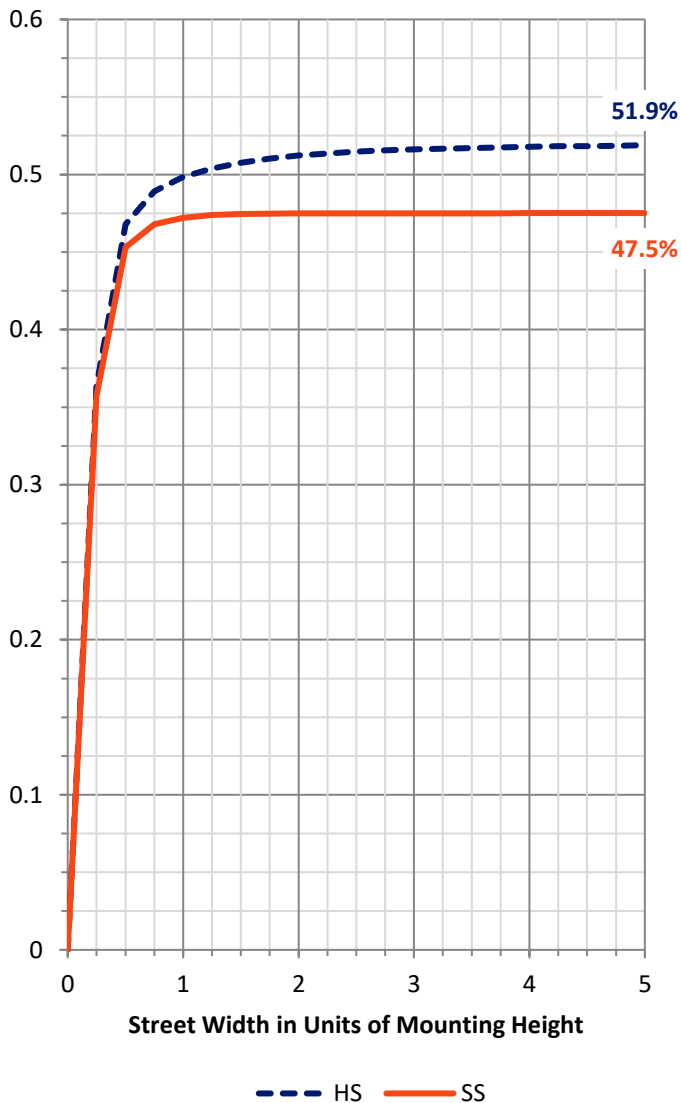
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19444.0	0.0	19444.0
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	17432.9	0.0	17432.9
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	36876.9	0.0	36876.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10487.2	28.4
10°-20°	15882.8	43.1
20°-30°	6702.6	18.2
30°-40°	1748.1	4.7
40°-50°	884.2	2.4
50°-60°	577.9	1.6
60°-70°	346.2	0.9
70°-80°	182.1	0.5
80°-90°	65.8	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°	36876.9	100.0
0°-180°	36876.9	100.0

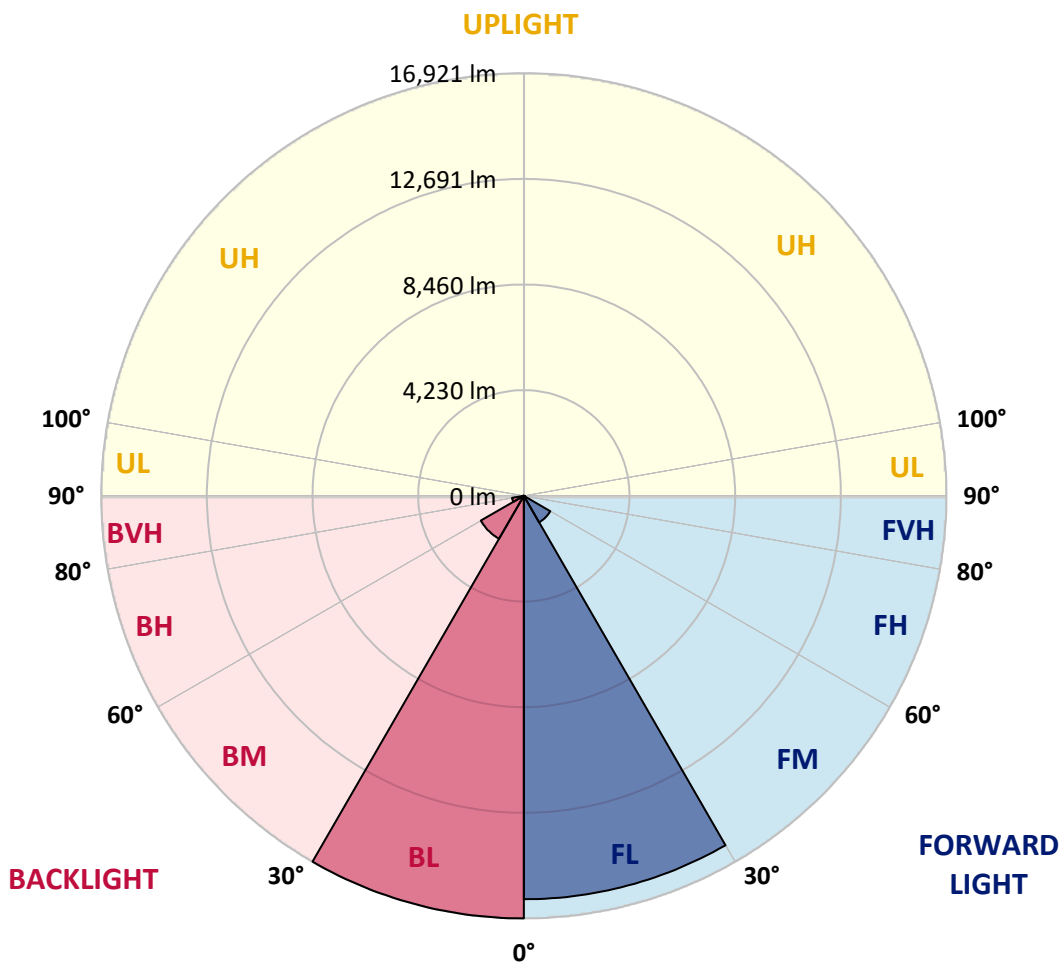


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	16151.9	43.8			
FM (30°-60°)	1223.2	3.3			
FH (60°-80°)	49.8	0.1			G0/660
FVH (80°-90°)	8.0	0.0			G0/10
BL (0°-30°)	16920.7	45.9	B5		
BM (30°-60°)	1987.0	5.4	B2/2500		
BH (60°-80°)	478.5	1.3	B1/500		G0/660
BVH (80°-90°)	57.8	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°	129938.3	129938.3	129938.3	129938.3	129938.3	129938.3	129938.3	129938.3	129938.3	129938.3
2.5°	126153.2	126223.6	125962.7	126525.9	126086.9	127263.0	126679.1	127590.2	127283.7	127793.1
5°	117539.2	117423.2	117348.7	118222.5	117969.9	119233.0	118425.4	118160.4	118980.4	118831.3
7.5°	104531.3	104837.7	104663.8	104891.6	105020.0	106461.1	106916.7	106560.5	106573.0	106780.0
10°	91196.2	90744.8	90102.9	90529.5	91432.3	92061.7	91809.1	92330.9	92215.0	92707.8
12.5°	74788.3	75144.4	74784.1	74403.1	75981.0	75807.0	76246.0	76531.8	75815.3	77409.7
15°	56334.5	56520.9	56959.8	56930.8	58144.3	58388.6	58330.6	58632.9	58073.9	58338.9
17.5°	36191.1	36820.6	38000.8	39997.0	42241.6	42502.5	42436.2	42187.7	41918.5	41620.4
20°	24309.6	24243.3	24669.9	25253.8	29900.4	31130.4	31093.1	30314.5	29188.1	28972.7
22.5°	17029.1	17153.4	17095.4	17675.2	18636.0	22027.7	21609.5	20818.5	20449.9	20209.7
25°	11202.3	11156.7	11446.6	11620.6	12444.7	12858.8	14324.9	14030.8	13463.5	13525.6
27.5°	6829.1	6887.0	6994.7	7143.8	7727.7	7595.2	8431.7	8543.6	8361.3	8166.7
30°	4191.0	4232.4	4319.4	4427.1	4630.0	4485.1	4717.0	5118.7	5052.4	4915.8
32.5°	2845.1	2849.2	2911.4	2952.8	2927.9	2791.3	2865.8	3246.8	3255.1	3242.7
35°	2045.8	2045.8	2103.8	2136.9	2066.5	1954.7	1967.1	2203.2	2306.7	2327.4
37.5°	1412.2	1416.3	1515.7	1615.1	1536.4	1507.4	1457.7	1615.1	1780.8	1805.6
40°	1072.6	1068.5	1118.2	1192.7	1201.0	1147.1	1163.7	1263.1	1432.9	1453.6
42.5°	869.7	873.8	898.7	890.4	894.5	964.9	989.8	1035.3	1192.7	1230.0
45°	733.0	737.2	749.6	708.2	691.6	799.3	832.4	857.3	989.8	1035.3
47.5°	604.6	612.9	625.3	579.8	571.5	641.9	699.9	724.7	840.7	890.4
50°	434.8	443.1	488.7	463.8	488.7	505.2	583.9	621.2	699.9	766.1
52.5°	314.7	323.0	335.4	339.6	401.7	410.0	468.0	525.9	563.2	637.8
55°	248.5	256.8	248.5	240.2	294.0	339.6	360.3	422.4	451.4	538.4
57.5°	140.8	149.1	161.5	186.4	194.6	260.9	281.6	335.4	360.3	443.1
60°	24.8	29.0	45.6	111.8	136.7	165.7	211.2	256.8	289.9	347.9
62.5°	4.1	4.1	8.3	24.8	78.7	116.0	153.2	182.2	211.2	265.0
65°	0.0	0.0	4.1	8.3	20.7	66.3	82.8	107.7	144.9	190.5
67.5°	0.0	0.0	4.1	8.3	12.4	24.8	37.3	66.3	82.8	128.4
70°	0.0	0.0	4.1	8.3	12.4	16.6	20.7	29.0	49.7	78.7
72.5°	0.0	0.0	4.1	8.3	12.4	16.6	20.7	24.8	24.8	49.7
75°	0.0	0.0	4.1	8.3	12.4	20.7	24.8	24.8	20.7	20.7
77.5°	0.0	0.0	4.1	8.3	16.6	24.8	29.0	24.8	16.6	16.6
80°	0.0	0.0	8.3	12.4	20.7	29.0	37.3	29.0	16.6	8.3
82.5°	0.0	0.0	8.3	16.6	20.7	33.1	45.6	37.3	16.6	8.3
85°	0.0	0.0	4.1	12.4	24.8	33.1	45.6	33.1	16.6	4.1
87.5°	0.0	0.0	4.1	4.1	8.3	12.4	24.8	20.7	8.3	4.1
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°
<b>129938.3</b>	0°	<b>129938.3</b>	<b>129938.3</b>	<b>129938.3</b>	<b>129938.3</b>	<b>129938.3</b>	<b>129938.3</b>	<b>129938.3</b>	<b>129938.3</b>	<b>129938.3</b>
126828.2	2.5°	127557.1	128219.7	128356.4	128174.1	128439.2	127962.9	127598.5	126654.3	126086.9
118785.7	5°	119551.9	119452.5	120144.1	120371.9	120342.9	119978.4	119469.1	118897.6	118342.6
106378.3	7.5°	107040.9	107169.3	107798.8	108200.5	107997.6	107542.0	107190.0	106759.3	106386.6
92885.9	10°	93734.8	92852.7	93635.4	93635.4	94178.0	92890.0	93010.1	91925.1	91974.8
77380.7	12.5°	77645.8	77964.7	78093.0	78461.6	77828.0	77144.7	76308.1	76142.5	75624.8
57833.7	15°	58666.1	59577.2	58794.4	60132.1	59486.0	58773.7	58645.4	57361.5	57767.4
41947.5	17.5°	41740.5	42746.8	43061.5	43827.7	43239.6	42817.2	42283.0	41893.7	41864.7
29366.2	20°	29598.1	30608.6	30840.5	31759.9	31693.6	31561.1	31109.7	30616.8	30082.6
19990.2	22.5°	20292.5	21116.6	21886.9	23125.2	23104.5	22715.2	22669.6	21973.9	21986.3
13504.9	25°	13645.7	14246.2	14428.4	15695.6	15836.4	15795.0	15559.0	14912.9	15157.3
8249.5	27.5°	8257.8	8783.8	9400.8	9848.1	10270.5	10204.2	9968.2	9607.9	9450.5
4957.2	30°	5089.7	5325.7	5553.5	6091.9	6344.5	6477.0	6365.2	6029.8	6054.6
3263.4	32.5°	3333.8	3532.6	3698.2	4037.8	4170.3	4414.7	4369.1	4298.7	4215.9
2348.1	35°	2431.0	2575.9	2687.7	2845.1	3014.9	3222.0	3255.1	3226.1	3193.0
1813.9	37.5°	1855.3	2004.4	2132.8	2199.0	2331.6	2493.1	2584.2	2580.0	2555.2
1478.5	40°	1507.4	1619.3	1735.2	1822.2	1913.3	2033.4	2145.2	2157.6	2157.6
1242.4	42.5°	1259.0	1354.2	1470.2	1561.3	1627.5	1739.4	1855.3	1863.6	1855.3
1051.9	45°	1076.7	1159.6	1271.4	1379.1	1432.9	1515.7	1627.5	1652.4	1635.8
902.8	47.5°	935.9	1010.5	1105.7	1221.7	1279.7	1354.2	1457.7	1486.7	1482.6
778.6	50°	803.4	890.4	985.6	1080.9	1155.4	1225.8	1325.2	1358.4	1345.9
662.6	52.5°	708.2	786.9	869.7	973.2	1060.2	1122.3	1201.0	1259.0	1242.4
559.1	55°	592.2	687.5	774.4	861.4	969.1	1035.3	1109.9	1180.3	1163.7
472.1	57.5°	513.5	592.2	691.6	770.3	878.0	956.6	1031.2	1105.7	1101.6
385.1	60°	430.7	513.5	608.8	691.6	791.0	878.0	952.5	1035.3	1043.6
289.9	62.5°	339.6	439.0	521.8	617.1	716.4	811.7	878.0	960.8	973.2
219.5	65°	256.8	360.3	451.4	542.5	641.9	745.4	803.4	873.8	886.2
161.5	67.5°	190.5	277.5	385.1	468.0	571.5	670.9	724.7	782.7	803.4
99.4	70°	144.9	211.2	323.0	401.7	509.4	588.1	646.0	695.7	712.3
66.3	72.5°	91.1	165.7	260.9	343.7	439.0	509.4	550.8	579.8	604.6
37.3	75°	62.1	128.4	211.2	294.0	364.4	418.3	455.5	480.4	501.1
16.6	77.5°	37.3	99.4	173.9	244.3	289.9	331.3	368.6	385.1	397.6
12.4	80°	20.7	74.5	144.9	198.8	227.8	256.8	285.8	306.5	314.7
8.3	82.5°	12.4	58.0	116.0	153.2	165.7	194.6	223.6	236.1	236.1
4.1	85°	8.3	41.4	78.7	111.8	120.1	140.8	149.1	157.4	165.7
4.1	87.5°	8.3	24.8	49.7	62.1	66.3	74.5	78.7	87.0	95.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
129938.3  
125668.6  
117721.4  
105123.5  
91490.2  
75152.7  
57361.5  
41094.4  
29850.7  
21746.1  
14772.1  
9313.8  
5946.9  
4186.9  
3180.5  
2542.8  
2132.8  
1847.0  
1635.8  
1474.3  
1337.6  
1238.3  
1172.0  
1105.7  
1047.8  
981.5  
898.7  
811.7  
720.6  
600.5  
497.0  
393.4  
306.5  
231.9  
161.5  
91.1  
0.0

(END OF REPORT)