

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: P638656

Luminaire Tested: **EPH-VN-06-E-935-U-44-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638656  
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-935-U-44-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 4 distribution lens and Visor  
Light Source: (96) 3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33886.3 lumens  
Efficiency: N/A  
Efficacy: 73.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

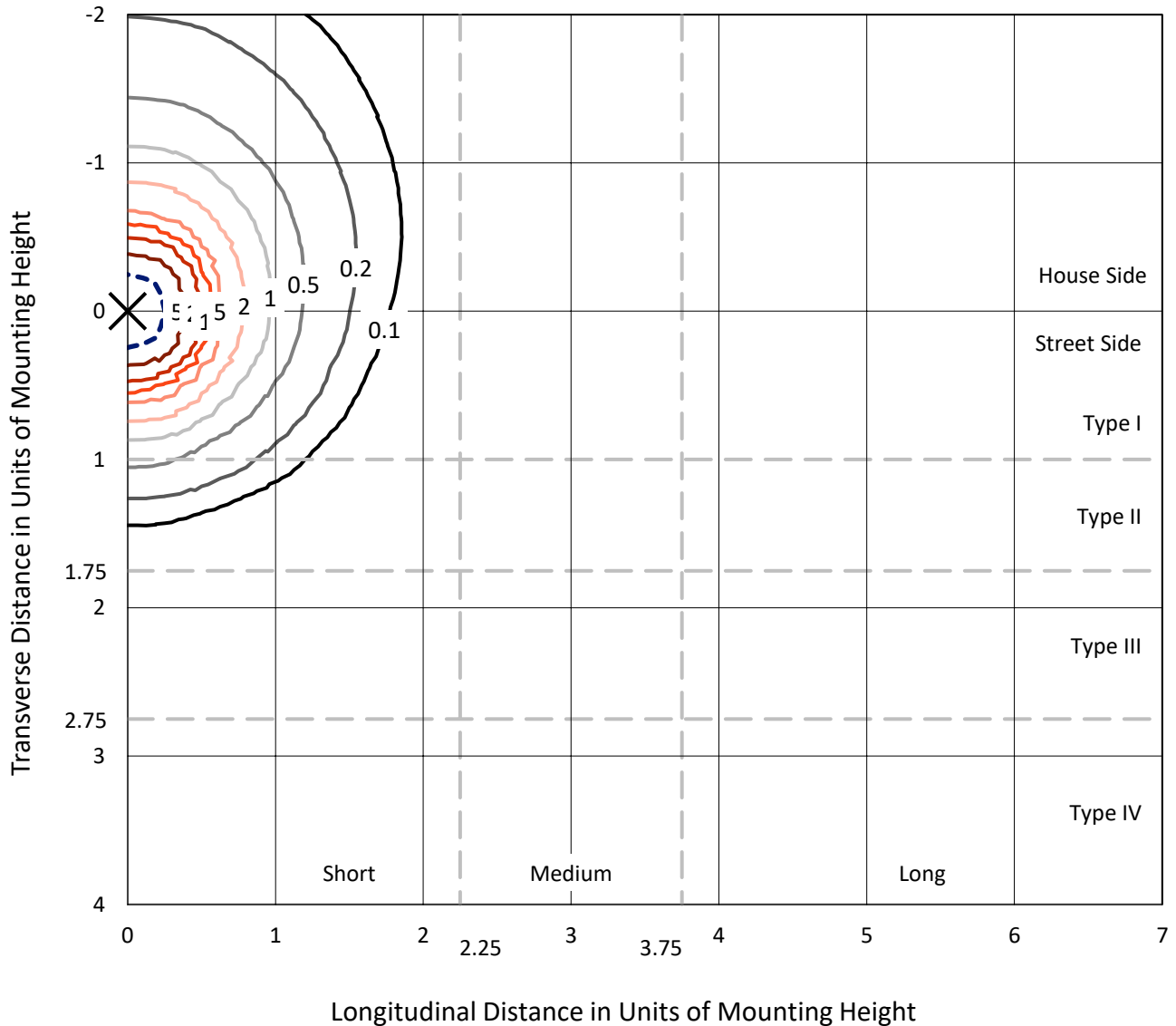
Input Watts (W): 464.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

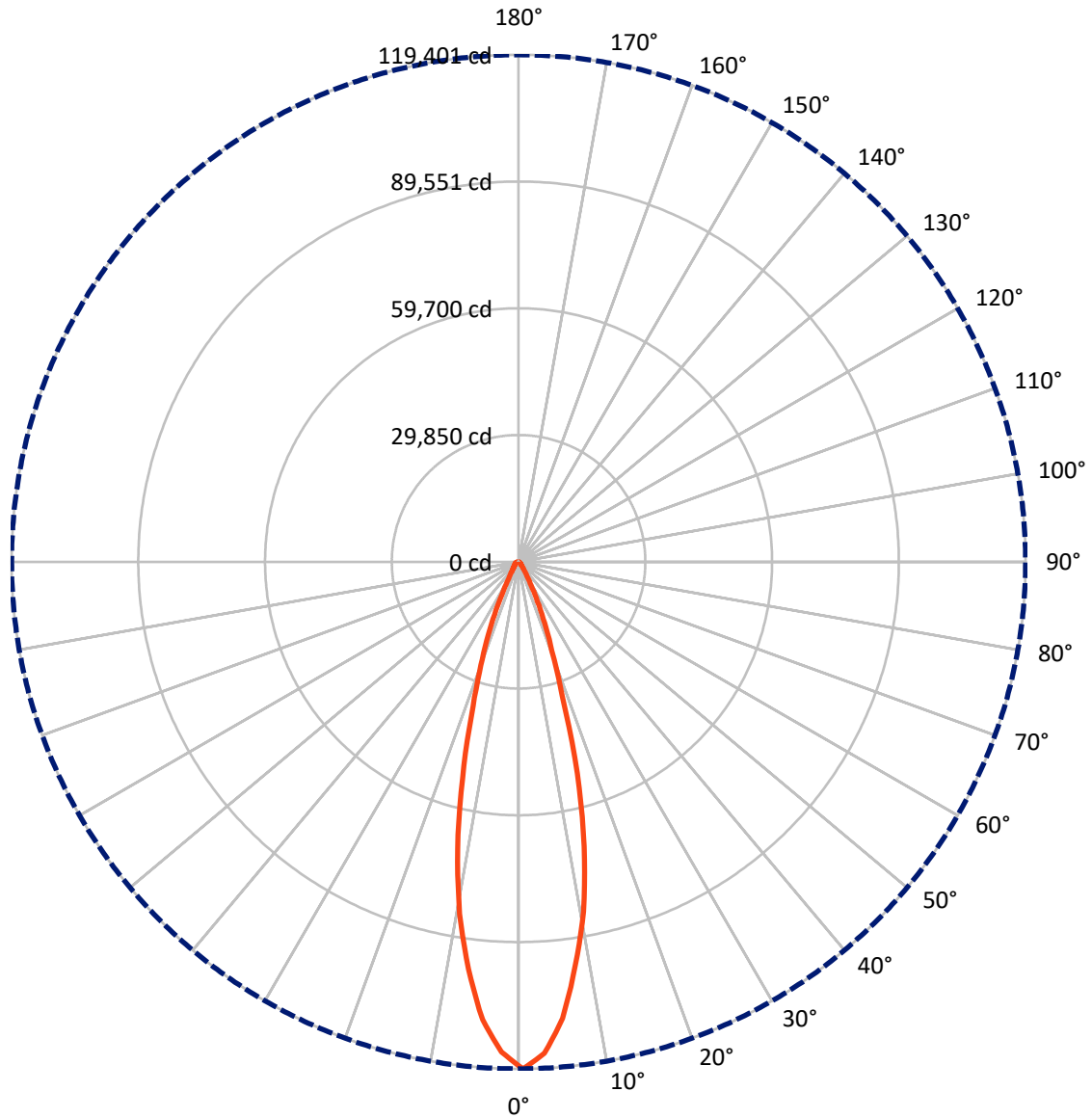
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 298.5 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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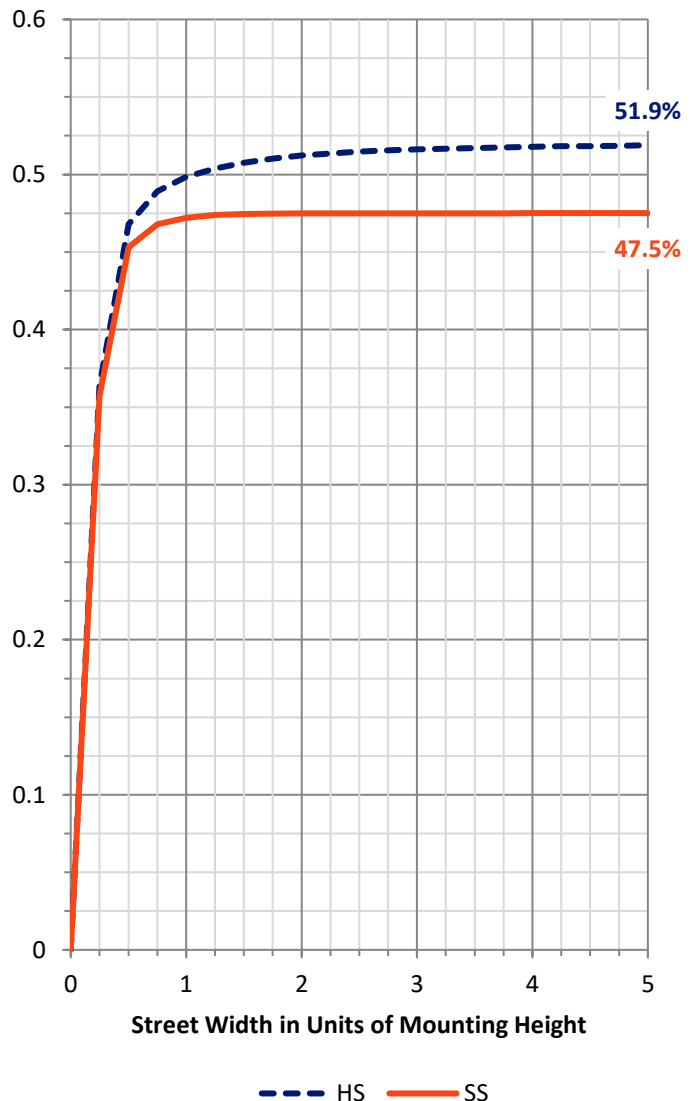
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17867.2	0.0	17867.2
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	16019.2	0.0	16019.2
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	33886.3	0.0	33886.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9636.7	28.4
10°-20°	14594.7	43.1
20°-30°	6159.0	18.2
30°-40°	1606.3	4.7
40°-50°	812.5	2.4
50°-60°	531.1	1.6
60°-70°	318.2	0.9
70°-80°	167.4	0.5
80°-90°	60.5	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°	33886.3	100.0
0°-180°	33886.3	100.0

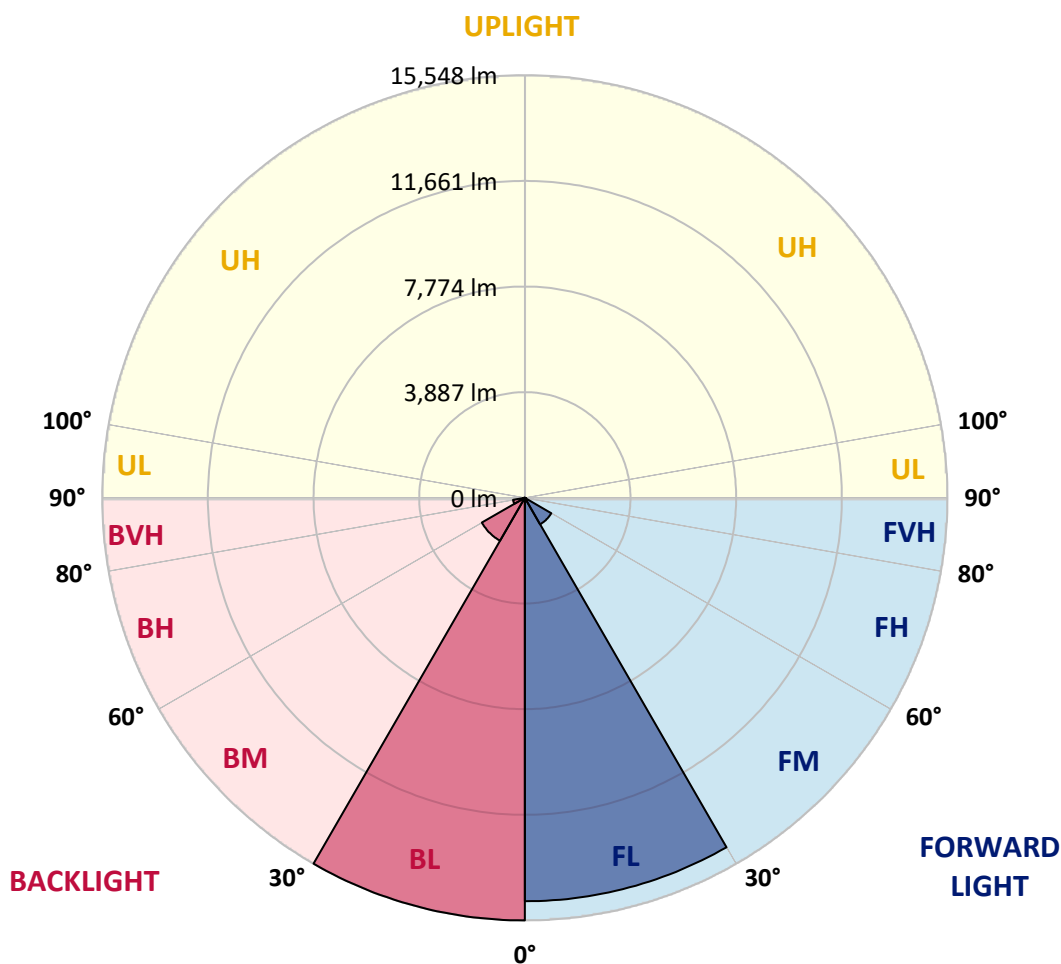


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14842.0	43.8			
FM (30°-60°)	1124.0	3.3			
FH (60°-80°)	45.8	0.1			G0/660
FVH (80°-90°)	7.3	0.0			G0/10
BL (0°-30°)	15548.5	45.9	B5		
BM (30°-60°)	1825.8	5.4	B2/2500		
BH (60°-80°)	439.7	1.3	B1/500		G0/660
BVH (80°-90°)	53.1	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°	119400.9	119400.9	119400.9	119400.9	119400.9	119400.9	119400.9	119400.9	119400.9	119400.9
2.5°	115922.6	115987.3	115747.6	116265.1	115861.8	116942.5	116405.9	117243.1	116961.5	117429.6
5°	108007.2	107900.7	107832.2	108635.1	108403.0	109563.7	108821.6	108578.1	109331.5	109194.5
7.5°	96054.2	96335.8	96176.0	96385.3	96503.3	97827.6	98246.2	97918.9	97930.3	98120.6
10°	83800.6	83385.8	82795.9	83187.9	84017.5	84595.9	84363.8	84843.3	84736.7	85189.6
12.5°	68723.2	69050.5	68719.4	68369.3	69819.2	69659.4	70062.8	70325.3	69667.0	71132.1
15°	51766.0	51937.2	52340.6	52314.0	53429.0	53653.5	53600.2	53878.0	53364.3	53607.8
17.5°	33256.1	33834.6	34919.1	36753.4	38815.9	39055.7	38994.8	38766.5	38519.1	38245.1
20°	22338.2	22277.3	22669.3	23205.8	27475.6	28605.8	28571.6	27856.1	26821.0	26623.2
22.5°	15648.1	15762.3	15709.0	16241.8	17124.7	20241.4	19857.0	19130.2	18791.5	18570.8
25°	10293.8	10252.0	10518.4	10678.2	11435.5	11816.0	13163.2	12893.0	12371.6	12428.7
27.5°	6275.2	6328.5	6427.5	6564.5	7101.0	6979.3	7748.0	7850.7	7683.3	7504.4
30°	3851.1	3889.2	3969.1	4068.1	4254.5	4121.3	4334.4	4703.6	4642.7	4517.1
32.5°	2614.4	2618.2	2675.3	2713.3	2690.5	2564.9	2633.4	2983.5	2991.1	2979.7
35°	1879.9	1879.9	1933.2	1963.6	1898.9	1796.2	1807.6	2024.5	2119.7	2138.7
37.5°	1297.7	1301.5	1392.8	1484.1	1411.8	1385.2	1339.5	1484.1	1636.4	1659.2
40°	985.6	981.8	1027.5	1096.0	1103.6	1054.1	1069.3	1160.7	1316.7	1335.7
42.5°	799.2	803.0	825.8	818.2	822.0	886.7	909.5	951.4	1096.0	1130.2
45°	673.6	677.4	688.8	650.7	635.5	734.5	764.9	787.7	909.5	951.4
47.5°	555.6	563.2	574.6	532.8	525.2	589.8	643.1	666.0	772.5	818.2
50°	399.6	407.2	449.0	426.2	449.0	464.3	536.6	570.8	643.1	704.0
52.5°	289.2	296.8	308.2	312.0	369.1	376.7	430.0	483.3	517.5	586.0
55°	228.3	235.9	228.3	220.7	270.2	312.0	331.1	388.2	414.8	494.7
57.5°	129.4	137.0	148.4	171.2	178.9	239.7	258.8	308.2	331.1	407.2
60°	22.8	26.6	41.9	102.7	125.6	152.2	194.1	235.9	266.4	319.7
62.5°	3.8	3.8	7.6	22.8	72.3	106.6	140.8	167.4	194.1	243.6
65°	0.0	0.0	3.8	7.6	19.0	60.9	76.1	98.9	133.2	175.1
67.5°	0.0	0.0	3.8	7.6	11.4	22.8	34.2	60.9	76.1	118.0
70°	0.0	0.0	3.8	7.6	11.4	15.2	19.0	26.6	45.7	72.3
72.5°	0.0	0.0	3.8	7.6	11.4	15.2	19.0	22.8	22.8	45.7
75°	0.0	0.0	3.8	7.6	11.4	19.0	22.8	22.8	19.0	19.0
77.5°	0.0	0.0	3.8	7.6	15.2	22.8	26.6	22.8	15.2	15.2
80°	0.0	0.0	7.6	11.4	19.0	26.6	34.2	26.6	15.2	7.6
82.5°	0.0	0.0	7.6	15.2	19.0	30.4	41.9	34.2	15.2	7.6
85°	0.0	0.0	3.8	11.4	22.8	30.4	41.9	30.4	15.2	3.8
87.5°	0.0	0.0	3.8	3.8	7.6	11.4	22.8	19.0	7.6	3.8
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>119400.9</b>	0°	<b>119400.9</b>	<b>119400.9</b>	<b>119400.9</b>	<b>119400.9</b>	<b>119400.9</b>	<b>119400.9</b>	<b>119400.9</b>	<b>119400.9</b>	<b>119400.9</b>
116542.9	2.5°	117212.7	117821.6	117947.2	117779.7	118023.3	117585.6	117250.8	116383.1	115861.8
109152.7	5°	109856.7	109765.4	110400.9	110610.2	110583.5	110248.7	109780.6	109255.4	108745.5
97751.5	7.5°	98360.3	98478.3	99056.7	99425.9	99239.4	98820.8	98497.3	98101.6	97759.1
85353.2	10°	86133.3	85322.7	86042.0	86042.0	86540.5	85357.0	85467.4	84470.3	84516.0
71105.5	12.5°	71349.0	71642.0	71760.0	72098.7	71516.5	70888.5	70119.8	69967.6	69491.9
53143.6	15°	53908.5	54745.7	54026.5	55255.6	54662.0	54007.4	53889.5	52709.8	53082.7
38545.7	17.5°	38355.5	39280.2	39569.4	40273.4	39733.1	39344.9	38854.0	38496.3	38469.6
26984.7	20°	27197.8	28126.3	28339.4	29184.3	29123.4	29001.6	28586.8	28133.9	27643.0
18369.1	22.5°	18646.9	19404.2	20112.0	21249.8	21230.8	20873.1	20831.2	20191.9	20203.3
12409.7	25°	12539.1	13090.9	13258.3	14422.8	14552.2	14514.1	14297.2	13703.5	13928.1
7580.5	27.5°	7588.1	8071.4	8638.4	9049.4	9437.6	9376.7	9159.8	8828.7	8684.1
4555.2	30°	4676.9	4893.9	5103.2	5597.9	5830.0	5951.8	5849.0	5540.8	5563.6
2998.7	32.5°	3063.4	3246.1	3398.3	3710.3	3832.1	4056.6	4014.8	3950.1	3874.0
2157.7	35°	2233.8	2367.0	2469.8	2614.4	2770.4	2960.7	2991.1	2964.5	2934.0
1666.8	37.5°	1704.9	1841.9	1959.8	2020.7	2142.5	2290.9	2374.6	2370.8	2348.0
1358.6	40°	1385.2	1487.9	1594.5	1674.4	1758.1	1868.5	1971.2	1982.7	1982.7
1141.6	42.5°	1156.9	1244.4	1350.9	1434.7	1495.6	1598.3	1704.9	1712.5	1704.9
966.6	45°	989.4	1065.5	1168.3	1267.2	1316.7	1392.8	1495.6	1518.4	1503.2
829.6	47.5°	860.0	928.5	1016.1	1122.6	1175.9	1244.4	1339.5	1366.2	1362.4
715.4	50°	738.3	818.2	905.7	993.2	1061.7	1126.4	1217.8	1248.2	1236.8
608.9	52.5°	650.7	723.0	799.2	894.3	974.2	1031.3	1103.6	1156.9	1141.6
513.7	55°	544.2	631.7	711.6	791.5	890.5	951.4	1019.9	1084.6	1069.3
433.8	57.5°	471.9	544.2	635.5	707.8	806.8	879.1	947.6	1016.1	1012.3
353.9	60°	395.8	471.9	559.4	635.5	726.8	806.8	875.3	951.4	959.0
266.4	62.5°	312.0	403.4	479.5	567.0	658.3	745.9	806.8	882.9	894.3
201.7	65°	235.9	331.1	414.8	498.5	589.8	685.0	738.3	803.0	814.4
148.4	67.5°	175.1	255.0	353.9	430.0	525.2	616.5	666.0	719.2	738.3
91.3	70°	133.2	194.1	296.8	369.1	468.1	540.4	593.7	639.3	654.5
60.9	72.5°	83.7	152.2	239.7	315.9	403.4	468.1	506.1	532.8	555.6
34.2	75°	57.1	118.0	194.1	270.2	334.9	384.4	418.6	441.4	460.5
15.2	77.5°	34.2	91.3	159.8	224.5	266.4	304.4	338.7	353.9	365.3
11.4	80°	19.0	68.5	133.2	182.7	209.3	235.9	262.6	281.6	289.2
7.6	82.5°	11.4	53.3	106.6	140.8	152.2	178.9	205.5	216.9	216.9
3.8	85°	7.6	38.1	72.3	102.7	110.4	129.4	137.0	144.6	152.2
3.8	87.5°	7.6	22.8	45.7	57.1	60.9	68.5	72.3	79.9	87.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
119400.9  
115477.4  
108174.7  
96598.4  
84070.7  
69058.1  
52709.8  
37761.8  
27429.9  
19982.6  
13574.2  
8558.5  
5464.7  
3847.3  
2922.6  
2336.6  
1959.8  
1697.2  
1503.2  
1354.8  
1229.2  
1137.8  
1077.0  
1016.1  
962.8  
901.9  
825.8  
745.9  
662.2  
551.8  
456.7  
361.5  
281.6  
213.1  
148.4  
83.7  
0.0

(END OF REPORT)