

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: P638624

Luminaire Tested: **EPH-VN-03-E-735-U-44-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638624  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-03-E-735-U-44-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 4 distribution lens and Visor  
Light Source: (48) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25658.9 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

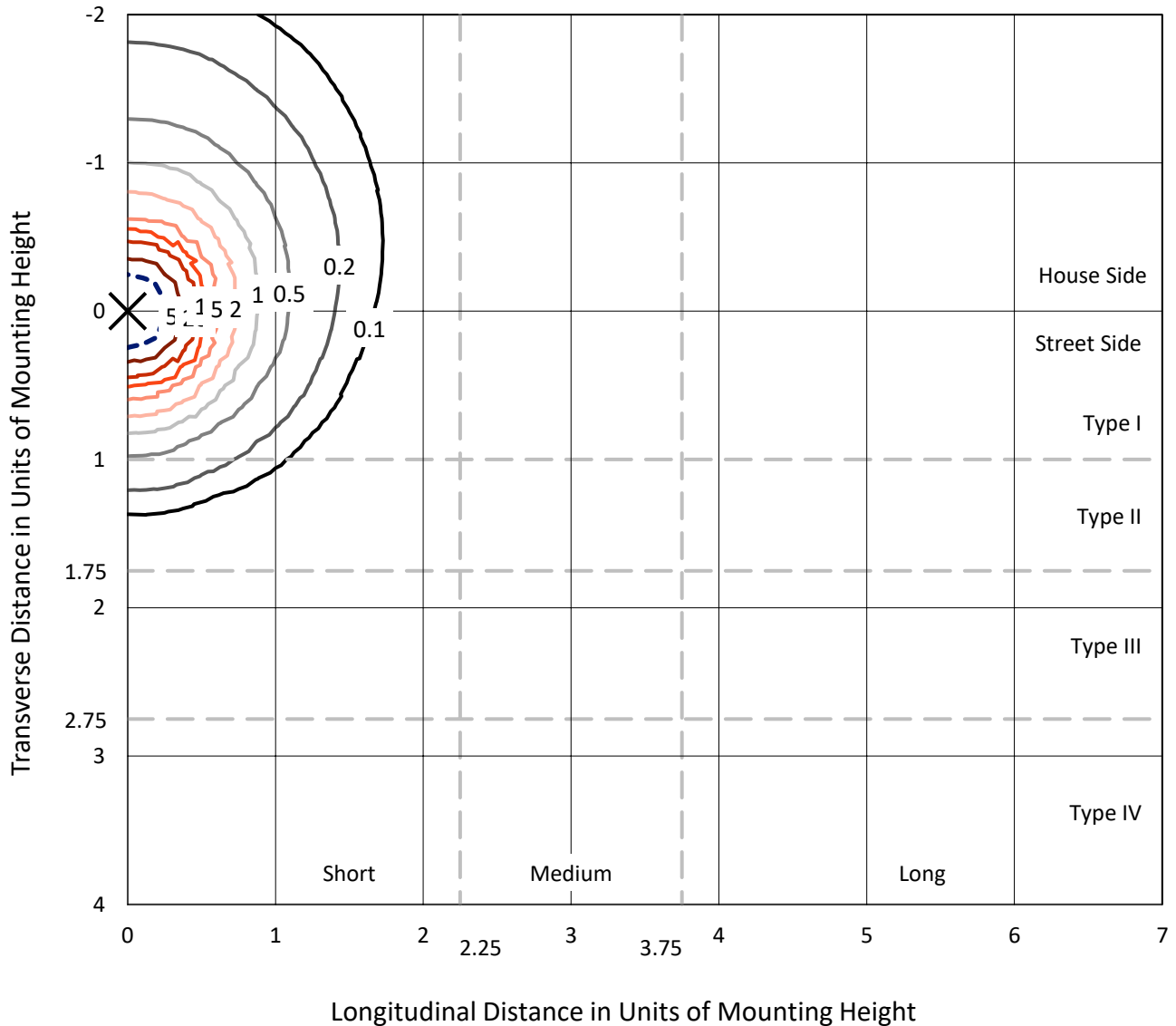
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

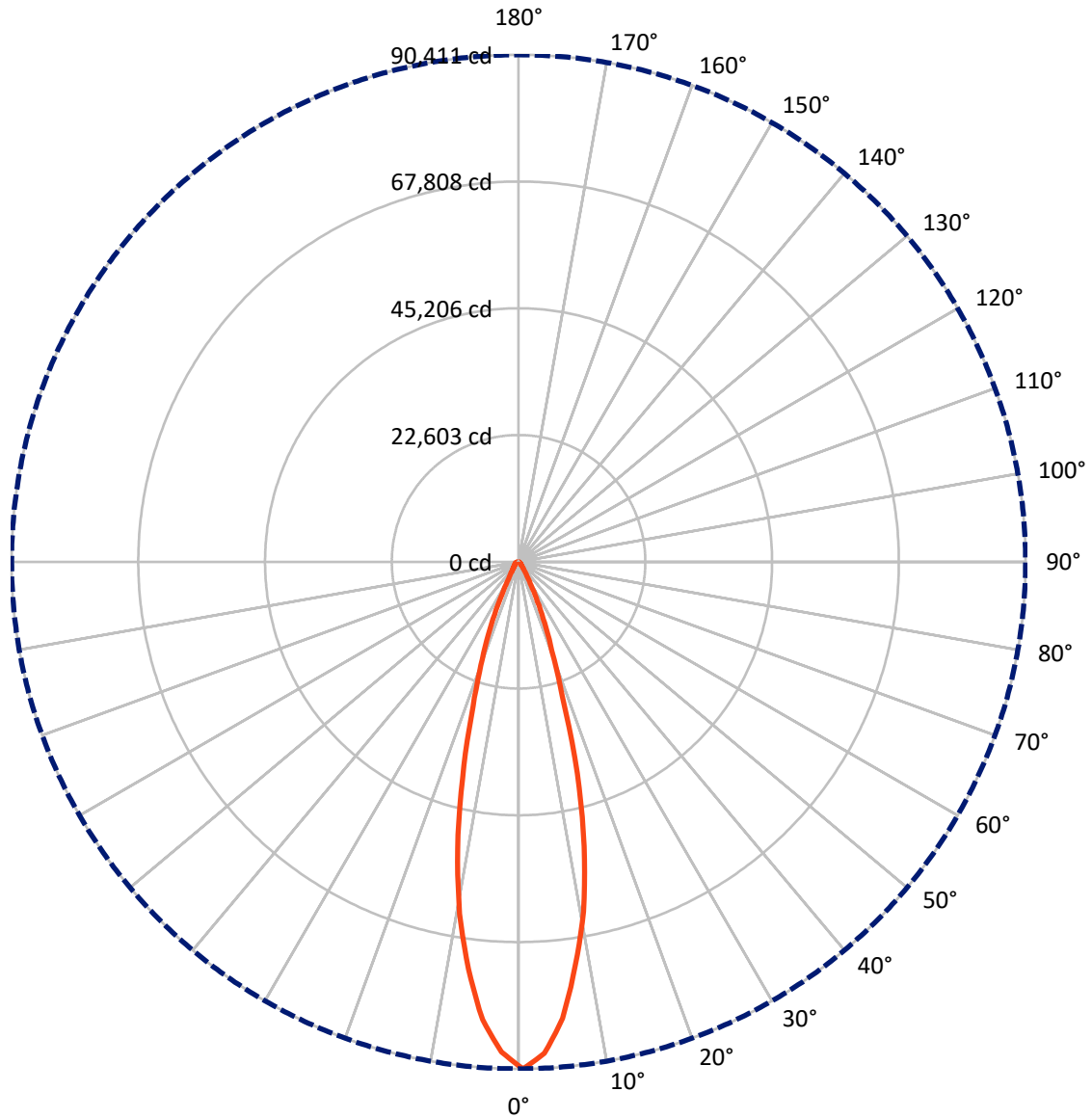
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 226 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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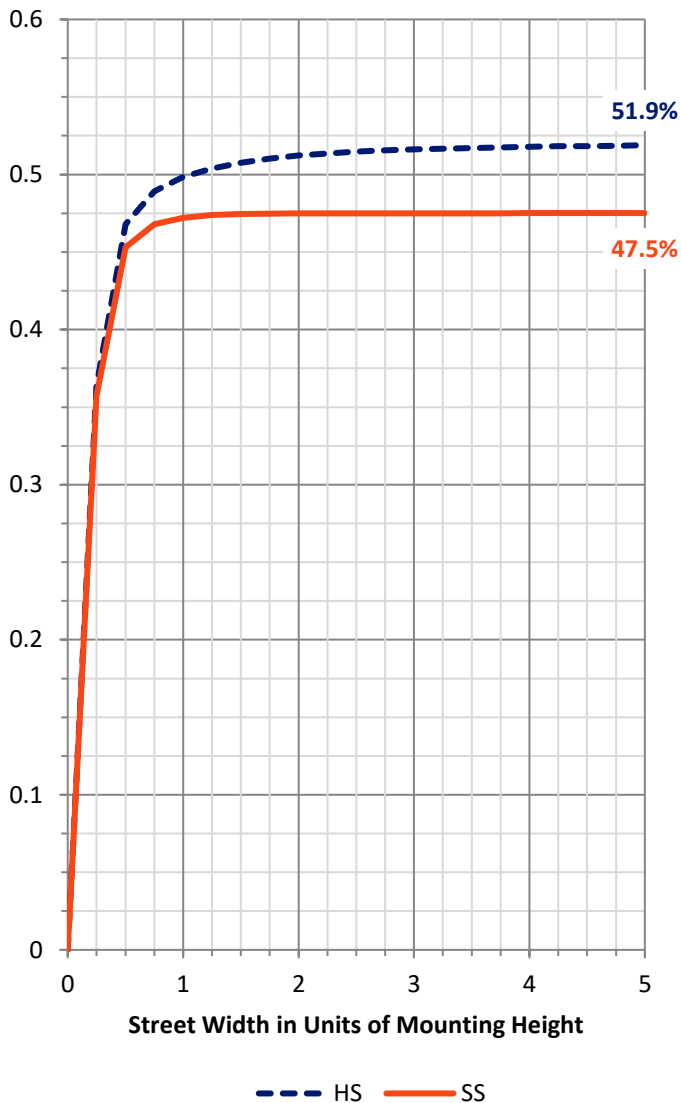
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13529.1	0.0	13529.1
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	12129.8	0.0	12129.8
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	25658.9	0.0	25658.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7297.0	28.4
10°-20°	11051.2	43.1
20°-30°	4663.7	18.2
30°-40°	1216.3	4.7
40°-50°	615.2	2.4
50°-60°	402.1	1.6
60°-70°	240.9	0.9
70°-80°	126.7	0.5
80°-90°	45.8	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°	25658.9	100.0
0°-180°	25658.9	100.0



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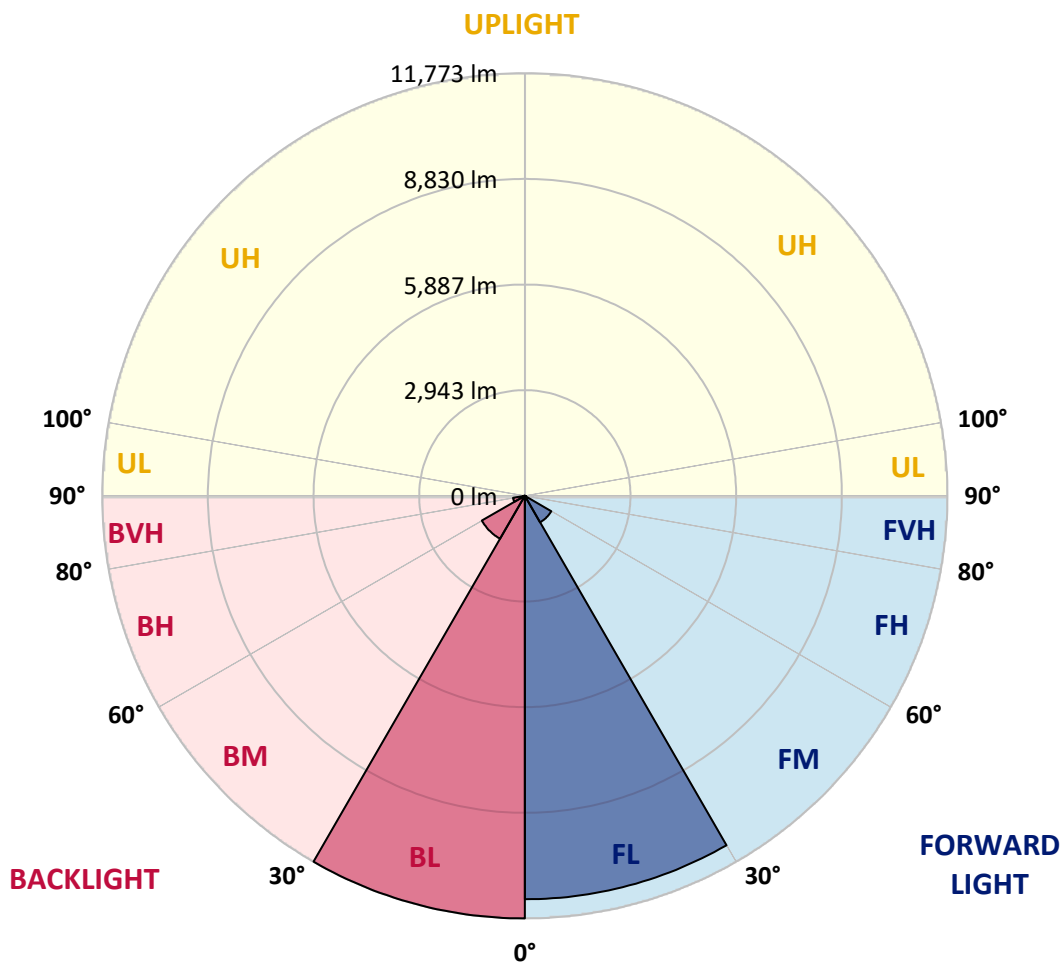
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11238.4	43.8			
FM (30°-60°)	851.1	3.3			
FH (60°-80°)	34.7	0.1			G0/660
FVH (80°-90°)	5.6	0.0			G0/10
BL (0°-30°)	11773.4	45.9	B5		
BM (30°-60°)	1382.5	5.4	B2/2500		
BH (60°-80°)	333.0	1.3	B1/500		G0/660
BVH (80°-90°)	40.2	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°	90411.0	90411.0	90411.0	90411.0	90411.0	90411.0	90411.0	90411.0	90411.0	90411.0
2.5°	87777.2	87826.2	87644.7	88036.6	87731.1	88549.5	88143.2	88777.1	88563.9	88918.3
5°	81783.6	81703.0	81651.1	82259.1	82083.3	82962.2	82400.3	82215.9	82786.4	82682.7
7.5°	72732.8	72946.0	72825.0	72983.4	73072.8	74075.5	74392.5	74144.7	74153.3	74297.4
10°	63454.2	63140.1	62693.5	62990.3	63618.5	64056.5	63880.7	64243.8	64163.1	64506.0
12.5°	52037.6	52285.4	52034.7	51769.6	52867.5	52746.4	53051.9	53250.7	52752.2	53861.6
15°	39197.5	39327.2	39632.6	39612.4	40456.7	40626.7	40586.4	40796.7	40407.7	40592.1
17.5°	25181.7	25619.7	26440.9	27829.8	29391.6	29573.2	29527.1	29354.2	29166.9	28959.4
20°	16914.6	16868.5	17165.3	17571.6	20804.7	21660.5	21634.5	21092.8	20309.0	20159.2
22.5°	11848.9	11935.3	11895.0	12298.4	12966.9	15326.9	15035.8	14485.5	14229.0	14061.9
25°	7794.5	7762.8	7964.6	8085.6	8659.0	8947.2	9967.2	9762.6	9367.9	9411.1
27.5°	4751.6	4792.0	4866.9	4970.6	5376.9	5284.7	5866.8	5944.6	5817.8	5682.4
30°	2916.1	2944.9	3005.4	3080.4	3221.6	3120.7	3282.1	3561.6	3515.5	3420.4
32.5°	1979.6	1982.5	2025.7	2054.5	2037.2	1942.2	1994.0	2259.1	2264.9	2256.2
35°	1423.5	1423.5	1463.8	1486.9	1437.9	1360.1	1368.7	1533.0	1605.0	1619.4
37.5°	982.6	985.5	1054.6	1123.8	1069.0	1048.9	1014.3	1123.8	1239.1	1256.3
40°	746.3	743.4	778.0	829.9	835.6	798.2	809.7	878.9	997.0	1011.4
42.5°	605.1	608.0	625.3	619.5	622.4	671.4	688.7	720.4	829.9	855.8
45°	510.0	512.9	521.6	492.7	481.2	556.1	579.2	596.5	688.7	720.4
47.5°	420.7	426.5	435.1	403.4	397.7	446.6	487.0	504.3	585.0	619.5
50°	302.6	308.3	340.0	322.7	340.0	351.5	406.3	432.2	487.0	533.1
52.5°	219.0	224.8	233.4	236.3	279.5	285.3	325.6	366.0	391.9	443.8
55°	172.9	178.7	172.9	167.1	204.6	236.3	250.7	293.9	314.1	374.6
57.5°	98.0	103.7	112.4	129.7	135.4	181.5	195.9	233.4	250.7	308.3
60°	17.3	20.2	31.7	77.8	95.1	115.3	147.0	178.7	201.7	242.0
62.5°	2.9	2.9	5.8	17.3	54.7	80.7	106.6	126.8	147.0	184.4
65°	0.0	0.0	2.9	5.8	14.4	46.1	57.6	74.9	100.9	132.6
67.5°	0.0	0.0	2.9	5.8	8.6	17.3	25.9	46.1	57.6	89.3
70°	0.0	0.0	2.9	5.8	8.6	11.5	14.4	20.2	34.6	54.7
72.5°	0.0	0.0	2.9	5.8	8.6	11.5	14.4	17.3	17.3	34.6
75°	0.0	0.0	2.9	5.8	8.6	14.4	17.3	17.3	14.4	14.4
77.5°	0.0	0.0	2.9	5.8	11.5	17.3	20.2	17.3	11.5	11.5
80°	0.0	0.0	5.8	8.6	14.4	20.2	25.9	20.2	11.5	5.8
82.5°	0.0	0.0	5.8	11.5	14.4	23.1	31.7	25.9	11.5	5.8
85°	0.0	0.0	2.9	8.6	17.3	23.1	31.7	23.1	11.5	2.9
87.5°	0.0	0.0	2.9	2.9	5.8	8.6	17.3	14.4	5.8	2.9
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°
90411.0	0°	90411.0	90411.0	90411.0	90411.0	90411.0	90411.0	90411.0	90411.0	90411.0
88246.9	2.5°	88754.1	89215.1	89310.2	89183.4	89367.8	89036.5	88782.9	88125.9	87731.1
82651.0	5°	83184.1	83114.9	83596.1	83754.6	83734.4	83480.9	83126.4	82728.8	82342.7
74017.9	7.5°	74479.0	74568.3	75006.3	75285.8	75144.6	74827.6	74582.7	74283.0	74023.7
64629.9	10°	65220.6	64606.8	65151.4	65151.4	65528.9	64632.8	64716.3	63961.4	63995.9
53841.4	12.5°	54025.8	54247.7	54337.1	54593.5	54152.6	53677.2	53095.1	52979.9	52619.7
40240.6	15°	40819.8	41453.7	40909.1	41839.8	41390.3	40894.7	40805.4	39912.1	40194.5
29187.0	17.5°	29043.0	29743.2	29962.2	30495.3	30086.1	29792.2	29420.4	29149.6	29129.4
20432.9	20°	20594.3	21297.4	21458.8	22098.5	22052.4	21960.2	21646.1	21303.2	20931.4
13909.2	22.5°	14119.5	14692.9	15228.9	16090.5	16076.1	15805.2	15773.5	15289.4	15298.1
9396.7	25°	9494.6	9912.5	10039.3	10921.0	11019.0	10990.2	10825.9	10376.4	10546.4
5740.0	27.5°	5745.8	6111.7	6541.1	6852.3	7146.2	7100.1	6935.8	6685.2	6575.7
3449.2	30°	3541.4	3705.7	3864.1	4238.7	4414.5	4506.7	4428.9	4195.5	4212.8
2270.6	32.5°	2319.6	2457.9	2573.2	2809.5	2901.7	3071.7	3040.0	2991.0	2933.4
1633.8	35°	1691.5	1792.3	1870.1	1979.6	2097.8	2241.8	2264.9	2244.7	2221.7
1262.1	37.5°	1290.9	1394.7	1484.0	1530.1	1622.3	1734.7	1798.1	1795.2	1777.9
1028.7	40°	1048.9	1126.7	1207.4	1267.9	1331.3	1414.8	1492.6	1501.3	1501.3
864.5	42.5°	876.0	942.3	1022.9	1086.3	1132.4	1210.2	1290.9	1296.7	1290.9
731.9	45°	749.2	806.8	884.6	959.6	997.0	1054.6	1132.4	1149.7	1138.2
628.2	47.5°	651.2	703.1	769.4	850.1	890.4	942.3	1014.3	1034.5	1031.6
541.7	50°	559.0	619.5	685.8	752.1	803.9	852.9	922.1	945.1	936.5
461.0	52.5°	492.7	547.5	605.1	677.2	737.7	780.9	835.6	876.0	864.5
389.0	55°	412.1	478.3	538.8	599.4	674.3	720.4	772.3	821.2	809.7
328.5	57.5°	357.3	412.1	481.2	536.0	610.9	665.6	717.5	769.4	766.5
268.0	60°	299.7	357.3	423.6	481.2	550.4	610.9	662.8	720.4	726.1
201.7	62.5°	236.3	305.4	363.1	429.3	498.5	564.8	610.9	668.5	677.2
152.7	65°	178.7	250.7	314.1	377.5	446.6	518.7	559.0	608.0	616.6
112.4	67.5°	132.6	193.1	268.0	325.6	397.7	466.8	504.3	544.6	559.0
69.2	70°	100.9	147.0	224.8	279.5	354.4	409.2	449.5	484.1	495.6
46.1	72.5°	63.4	115.3	181.5	239.2	305.4	354.4	383.2	403.4	420.7
25.9	75°	43.2	89.3	147.0	204.6	253.6	291.0	317.0	334.3	348.7
11.5	77.5°	25.9	69.2	121.0	170.0	201.7	230.5	256.5	268.0	276.6
8.6	80°	14.4	51.9	100.9	138.3	158.5	178.7	198.8	213.2	219.0
5.8	82.5°	8.6	40.3	80.7	106.6	115.3	135.4	155.6	164.2	164.2
2.9	85°	5.8	28.8	54.7	77.8	83.6	98.0	103.7	109.5	115.3
2.9	87.5°	5.8	17.3	34.6	43.2	46.1	51.9	54.7	60.5	66.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
<u>90411.0</u>
87440.1
81910.4
73144.8
63658.8
52291.2
39912.1
28593.4
20770.1
15130.9
10278.4
6480.6
4137.9
2913.2
2213.0
1769.3
1484.0
1285.2
1138.2
1025.8
930.7
861.6
815.5
769.4
729.0
682.9
625.3
564.8
501.4
417.8
345.8
273.7
213.2
161.4
112.4
63.4
0.0

(END OF REPORT)