

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: P638638

Luminaire Tested: **EPH-VN-06-E-750-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638638
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-750-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (96) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52202.3 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

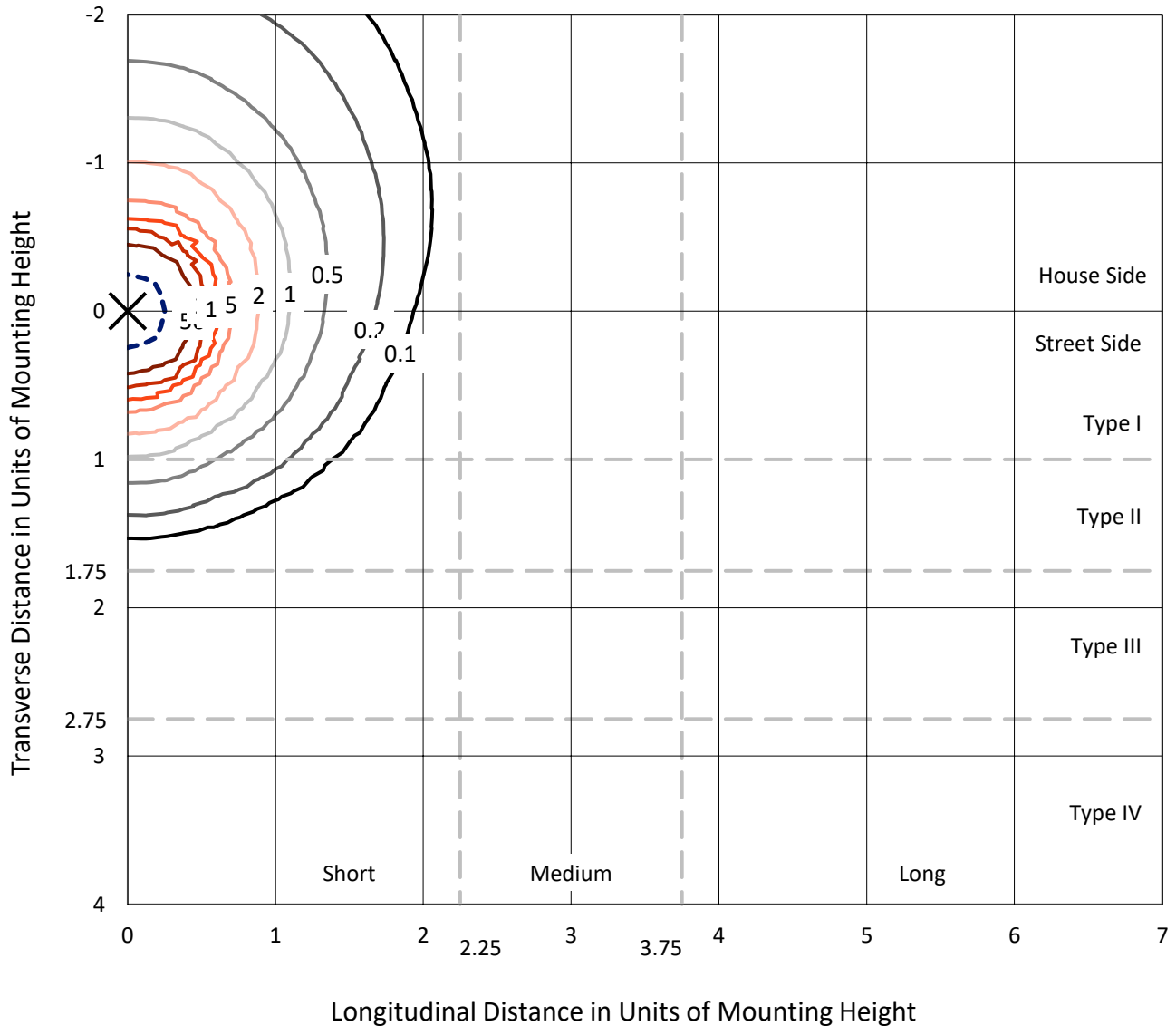
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

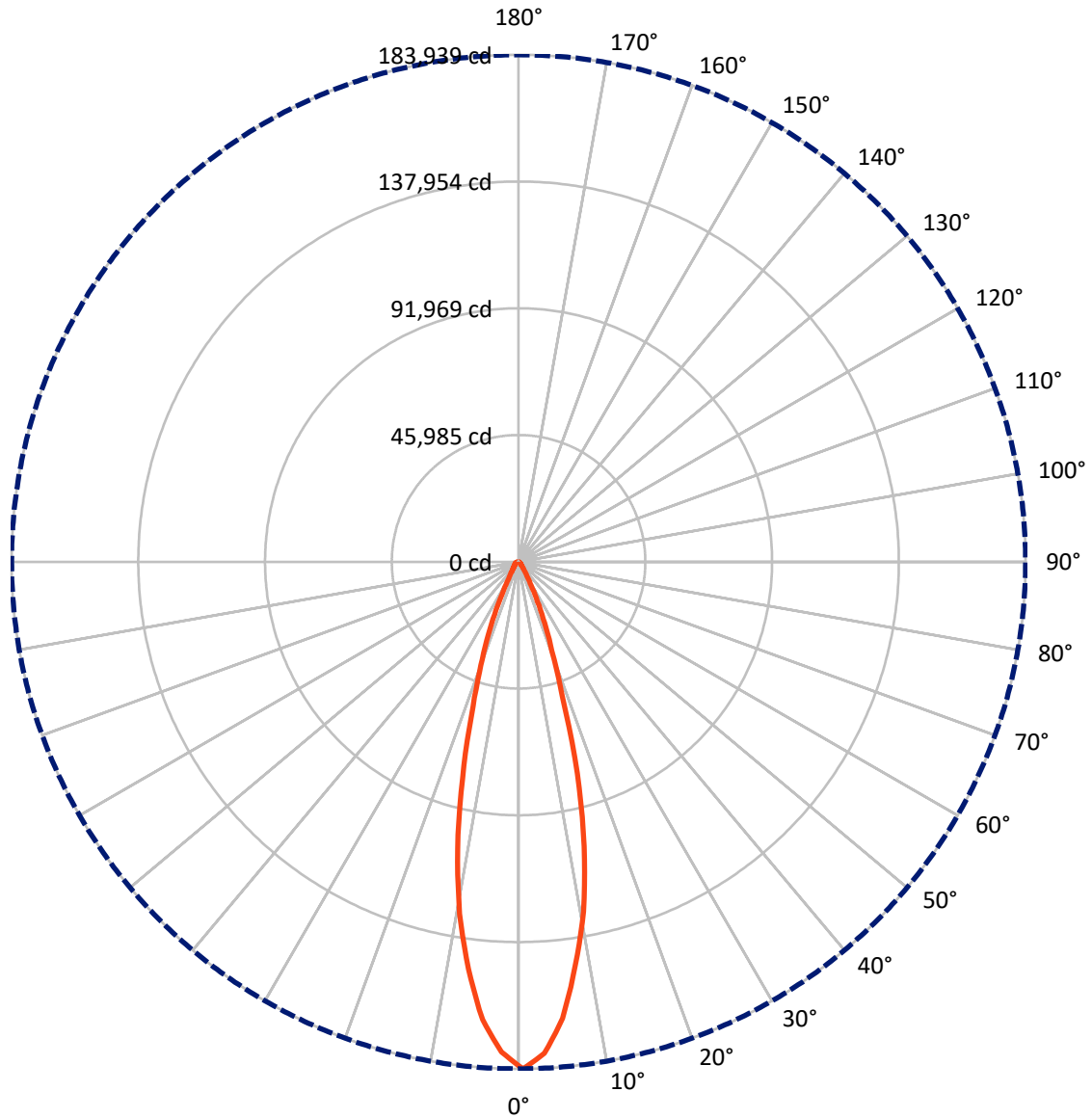
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 459.8 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
House Side	Lumens	27524.6	0.0	27524.6
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	24677.7	0.0	24677.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	52202.3	0.0	52202.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14845.5	28.4
10°-20°	22483.3	43.1
20°-30°	9488.1	18.2
30°-40°	2474.6	4.7
40°-50°	1251.6	2.4
50°-60°	818.1	1.6
60°-70°	490.1	0.9
70°-80°	257.8	0.5
80°-90°	93.1	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°	52202.3	100.0
0°-180°	52202.3	100.0

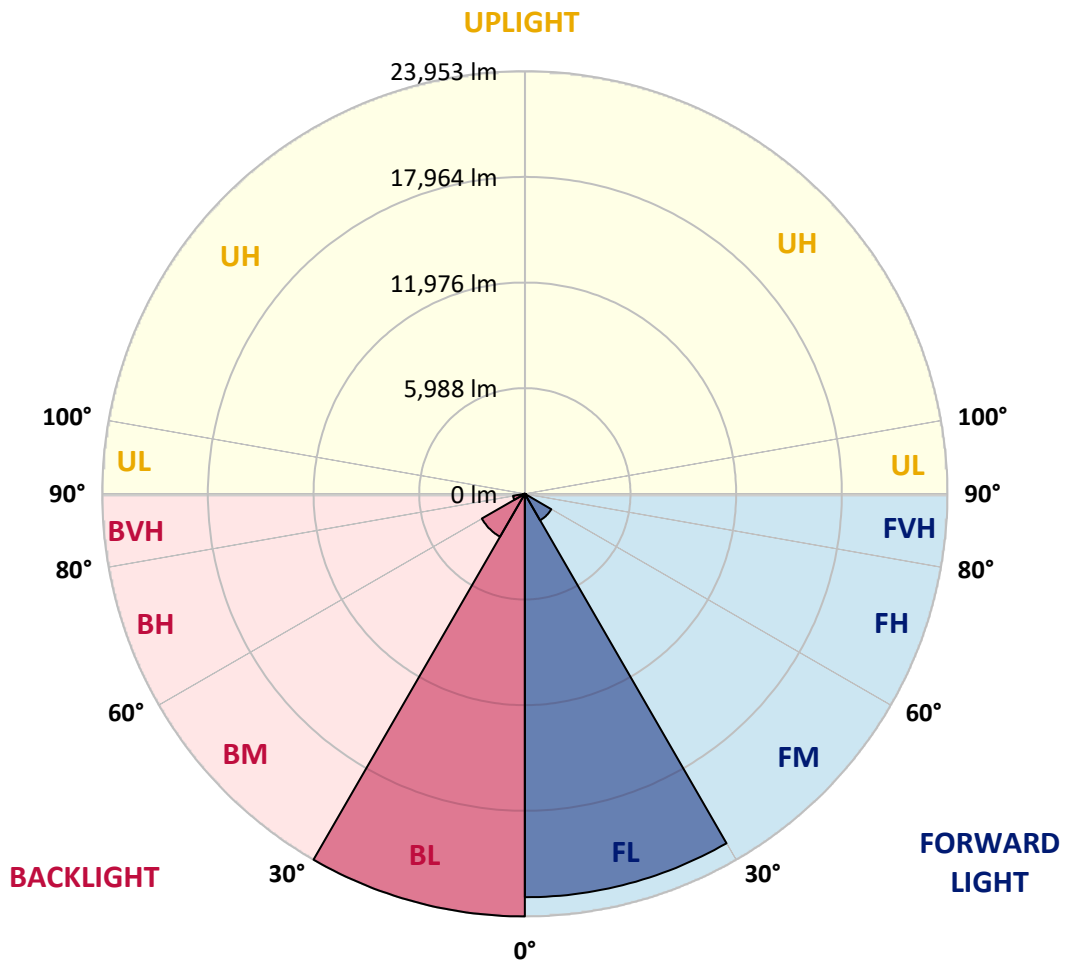


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	22864.3	43.8			
FM (30°-60°)	1731.6	3.3			
FH (60°-80°)	70.6	0.1			G0/660
FVH (80°-90°)	11.3	0.0			G1/100
BL (0°-30°)	23952.6	45.9	B5		
BM (30°-60°)	2812.7	5.4	B3/5000		
BH (60°-80°)	677.4	1.3	B2/1000		G1/1800
BVH (80°-90°)	81.8	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°	183938.5	183938.5	183938.5	183938.5	183938.5	183938.5	183938.5	183938.5	183938.5	183938.5
2.5°	178580.2	178679.9	178310.6	179107.8	178486.4	180151.3	179324.7	180614.5	180180.7	180901.7
5°	166386.4	166222.3	166116.8	167353.7	166996.1	168784.2	167641.0	167265.8	168426.6	168215.5
7.5°	147972.7	148406.5	148160.3	148482.7	148664.4	150704.5	151349.4	150845.2	150862.8	151155.9
10°	129095.8	128456.8	127548.1	128151.9	129429.9	130321.0	129963.4	130702.1	130537.9	131235.5
12.5°	105869.0	106373.1	105863.1	105323.8	107557.3	107311.1	107932.5	108337.0	107322.8	109579.9
15°	79746.1	80009.9	80631.4	80590.3	82308.0	82653.9	82571.8	82999.8	82208.3	82583.5
17.5°	51231.5	52122.5	53793.3	56619.0	59796.4	60165.7	60071.9	59720.2	59339.1	58917.1
20°	34412.2	34318.5	34922.3	35748.9	42326.5	44067.6	44014.8	42912.7	41318.1	41013.3
22.5°	24106.2	24282.0	24200.0	25020.7	26380.8	31182.1	30590.0	29470.3	28948.5	28608.5
25°	15857.8	15793.3	16203.7	16449.9	17616.5	18202.7	20278.0	19861.8	19058.6	19146.6
27.5°	9667.1	9749.2	9901.6	10112.6	10939.2	10751.6	11935.8	12094.1	11836.2	11560.6
30°	5932.7	5991.4	6114.5	6266.9	6554.2	6349.0	6677.3	7245.9	7152.1	6958.7
32.5°	4027.5	4033.3	4121.3	4179.9	4144.7	3951.3	4056.8	4596.1	4607.8	4590.3
35°	2896.0	2896.0	2978.1	3025.0	2925.3	2767.0	2784.6	3118.8	3265.4	3294.7
37.5°	1999.1	2004.9	2145.6	2286.3	2174.9	2133.9	2063.6	2286.3	2520.8	2556.0
40°	1518.4	1512.5	1582.8	1688.4	1700.1	1623.9	1647.3	1788.0	2028.4	2057.7
42.5°	1231.1	1237.0	1272.1	1260.4	1266.3	1365.9	1401.1	1465.6	1688.4	1741.1
45°	1037.6	1043.5	1061.1	1002.5	979.0	1131.4	1178.3	1213.5	1401.1	1465.6
47.5°	855.9	867.6	885.2	820.7	809.0	908.7	990.7	1025.9	1190.1	1260.4
50°	615.6	627.3	691.8	656.6	691.8	715.2	826.6	879.4	990.7	1084.5
52.5°	445.5	457.3	474.9	480.7	568.7	580.4	662.5	744.5	797.3	902.8
55°	351.7	363.5	351.7	340.0	416.2	480.7	510.0	598.0	639.0	762.1
57.5°	199.3	211.0	228.6	263.8	275.5	369.3	398.6	474.9	510.0	627.3
60°	35.2	41.0	64.5	158.3	193.5	234.5	299.0	363.5	410.4	492.4
62.5°	5.9	5.9	11.7	35.2	111.4	164.1	216.9	257.9	299.0	375.2
65°	0.0	0.0	5.9	11.7	29.3	93.8	117.2	152.4	205.2	269.7
67.5°	0.0	0.0	5.9	11.7	17.6	35.2	52.8	93.8	117.2	181.7
70°	0.0	0.0	5.9	11.7	17.6	23.4	29.3	41.0	70.3	111.4
72.5°	0.0	0.0	5.9	11.7	17.6	23.4	29.3	35.2	35.2	70.3
75°	0.0	0.0	5.9	11.7	17.6	29.3	35.2	35.2	29.3	29.3
77.5°	0.0	0.0	5.9	11.7	23.4	35.2	41.0	35.2	23.4	23.4
80°	0.0	0.0	11.7	17.6	29.3	41.0	52.8	41.0	23.4	11.7
82.5°	0.0	0.0	11.7	23.4	29.3	46.9	64.5	52.8	23.4	11.7
85°	0.0	0.0	5.9	17.6	35.2	46.9	64.5	46.9	23.4	5.9
87.5°	0.0	0.0	5.9	5.9	11.7	17.6	35.2	29.3	11.7	5.9
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°
183938.5	0°	183938.5	183938.5	183938.5	183938.5	183938.5	183938.5	183938.5	183938.5	183938.5
179535.8	2.5°	180567.6	181505.6	181699.0	181441.1	181816.3	181142.1	180626.2	179289.6	178486.4
168151.0	5°	169235.6	169094.9	170073.9	170396.3	170355.3	169839.4	169118.3	168309.3	167523.8
150587.3	7.5°	151525.3	151707.0	152598.1	153166.7	152879.5	152234.6	151736.3	151126.6	150599.0
131487.6	10°	132689.4	131440.7	132548.7	132548.7	133316.7	131493.5	131663.5	130127.5	130197.9
109538.8	12.5°	109914.0	110365.4	110547.2	111068.9	110172.0	109204.7	108020.5	107786.0	107053.2
81868.3	15°	83046.7	84336.4	83228.4	85122.0	84207.4	83199.1	83017.4	81200.0	81774.5
59380.2	17.5°	59087.1	60511.6	60957.2	62041.7	61209.2	60611.3	59855.0	59304.0	59262.9
41570.2	20°	41898.5	43328.9	43657.2	44958.7	44864.9	44677.3	44038.3	43340.7	42584.4
28297.8	22.5°	28725.7	29892.3	30982.7	32735.6	32706.3	32155.2	32090.7	31105.9	31123.4
19117.3	25°	19316.6	20166.6	20424.6	22218.5	22417.8	22359.2	22025.0	21110.5	21456.4
11677.9	27.5°	11689.6	12434.1	13307.6	13940.8	14538.7	14444.9	14110.8	13600.8	13378.0
7017.3	30°	7204.9	7539.0	7861.5	8623.6	8981.2	9168.8	9010.5	8535.6	8570.8
4619.6	32.5°	4719.2	5000.6	5235.1	5715.8	5903.4	6249.3	6184.8	6085.2	5967.9
3324.0	35°	3441.2	3646.4	3804.7	4027.5	4267.8	4560.9	4607.8	4566.8	4519.9
2567.7	37.5°	2626.4	2837.4	3019.1	3112.9	3300.5	3529.2	3658.1	3652.3	3617.1
2092.9	40°	2133.9	2292.2	2456.3	2579.5	2708.4	2878.4	3036.7	3054.3	3054.3
1758.7	42.5°	1782.2	1917.0	2081.1	2210.1	2303.9	2462.2	2626.4	2638.1	2626.4
1489.0	45°	1524.2	1641.5	1799.8	1952.2	2028.4	2145.6	2303.9	2339.1	2315.6
1278.0	47.5°	1324.9	1430.4	1565.3	1729.4	1811.5	1917.0	2063.6	2104.6	2098.7
1102.1	50°	1137.3	1260.4	1395.2	1530.1	1635.6	1735.3	1876.0	1922.9	1905.3
938.0	52.5°	1002.5	1113.9	1231.1	1377.7	1500.8	1588.7	1700.1	1782.2	1758.7
791.4	55°	838.3	973.2	1096.3	1219.4	1371.8	1465.6	1571.1	1670.8	1647.3
668.3	57.5°	726.9	838.3	979.0	1090.4	1242.8	1354.2	1459.7	1565.3	1559.4
545.2	60°	609.7	726.9	861.8	979.0	1119.7	1242.8	1348.4	1465.6	1477.3
410.4	62.5°	480.7	621.4	738.7	873.5	1014.2	1149.0	1242.8	1360.1	1377.7
310.7	65°	363.5	510.0	639.0	768.0	908.7	1055.2	1137.3	1237.0	1254.6
228.6	67.5°	269.7	392.8	545.2	662.5	809.0	949.7	1025.9	1108.0	1137.3
140.7	70°	205.2	299.0	457.3	568.7	721.1	832.5	914.5	984.9	1008.3
93.8	72.5°	129.0	234.5	369.3	486.6	621.4	721.1	779.7	820.7	855.9
52.8	75°	87.9	181.7	299.0	416.2	515.9	592.1	644.9	680.0	709.3
23.4	77.5°	52.8	140.7	246.2	345.9	410.4	469.0	521.8	545.2	562.8
17.6	80°	29.3	105.5	205.2	281.4	322.4	363.5	404.5	433.8	445.5
11.7	82.5°	17.6	82.1	164.1	216.9	234.5	275.5	316.6	334.2	334.2
5.9	85°	11.7	58.6	111.4	158.3	170.0	199.3	211.0	222.8	234.5
5.9	87.5°	11.7	35.2	70.3	87.9	93.8	105.5	111.4	123.1	134.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
183938.5
177894.3
166644.4
148811.0
129512.0
106384.9
81200.0
58172.5
42256.1
30783.4
20911.2
13184.5
8418.4
5926.9
4502.3
3599.5
3019.1
2614.6
2315.6
2087.0
1893.6
1752.9
1659.1
1565.3
1483.2
1389.4
1272.1
1149.0
1020.1
850.0
703.5
556.9
433.8
328.3
228.6
129.0
0.0

(END OF REPORT)