

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: P638692

Luminaire Tested: **EPH-VN-06-E-750-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638692
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-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (96) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50841.6 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

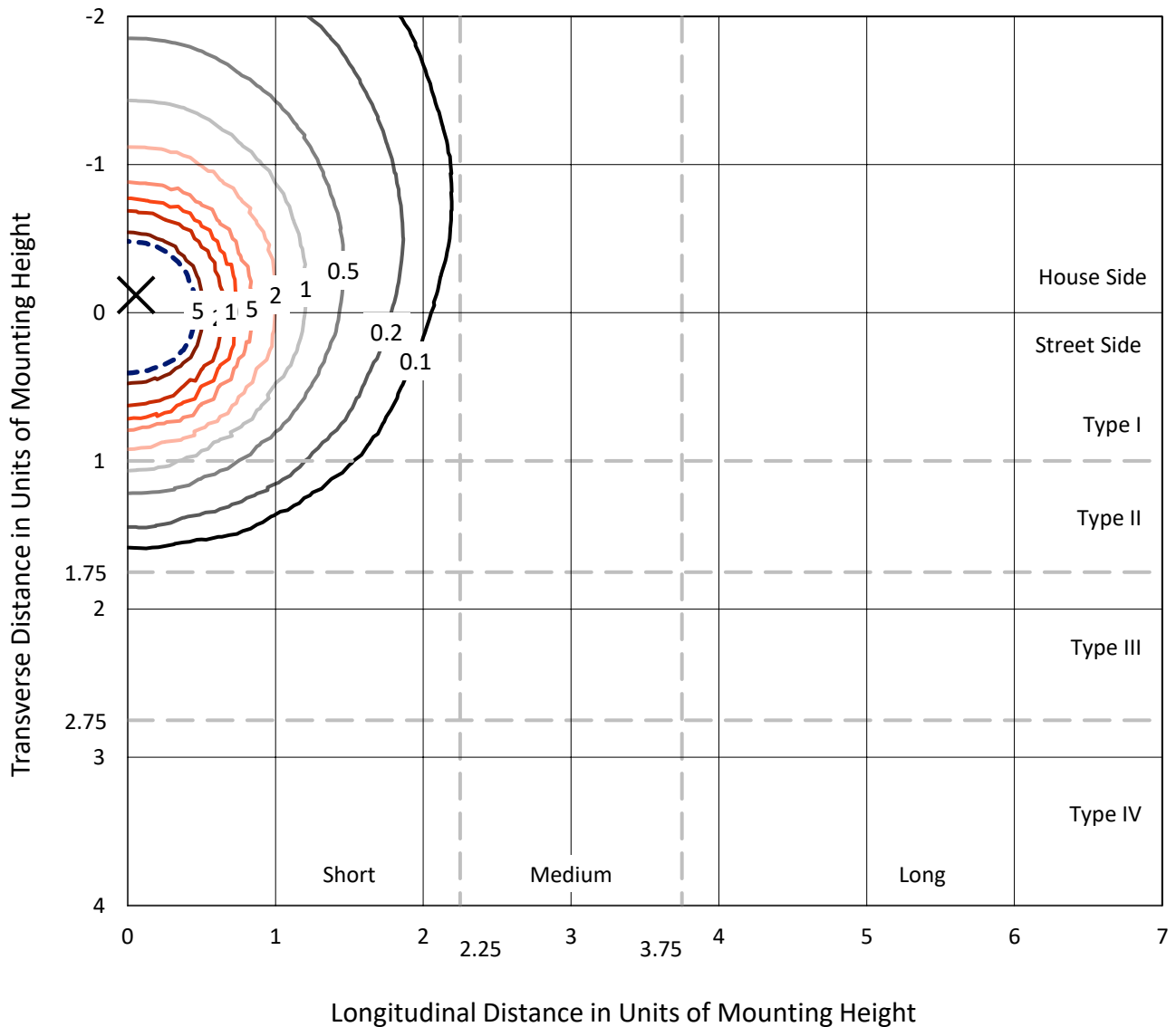
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

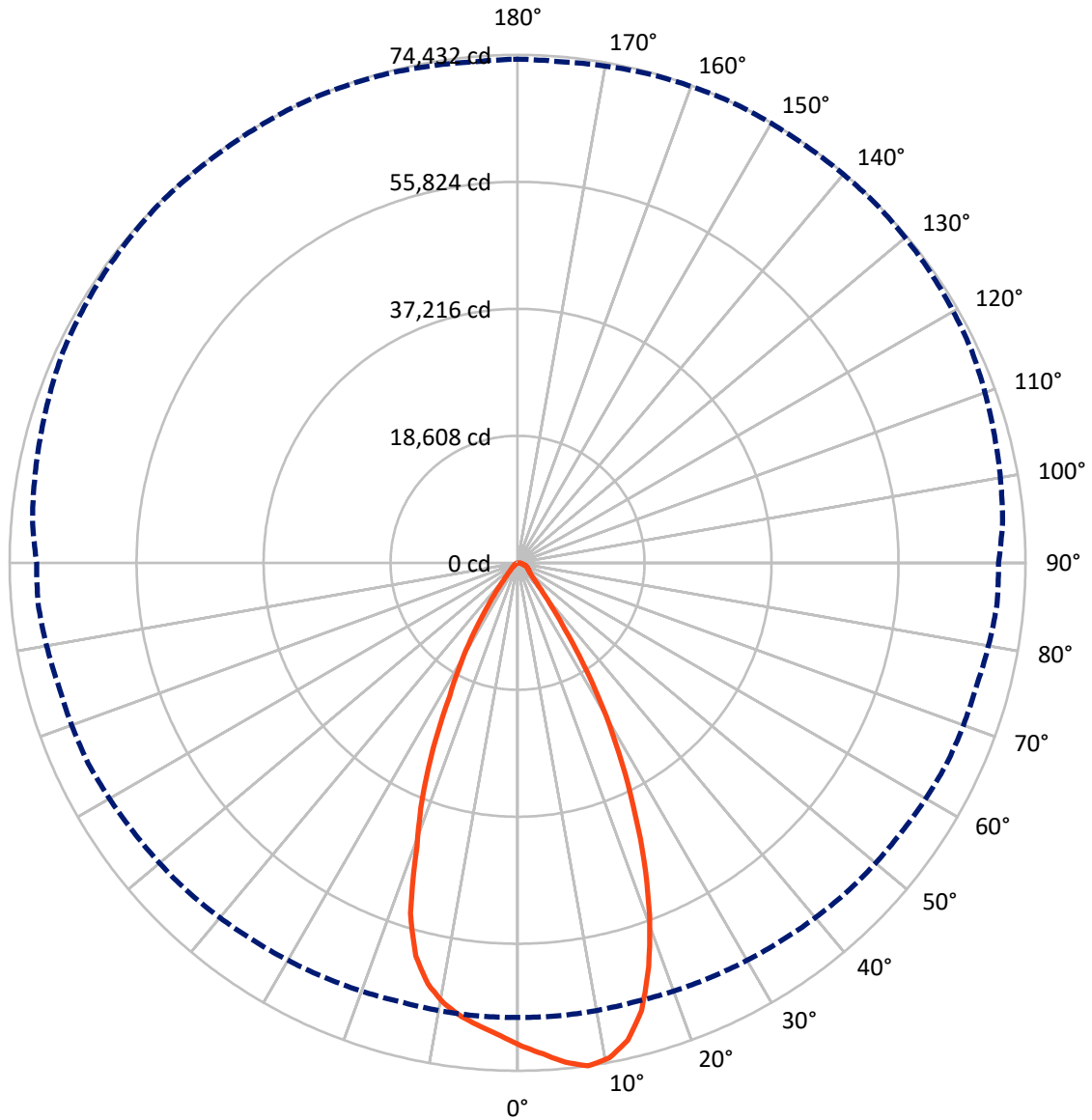
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 180 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28066.4	0.0	28066.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	22775.2	0.0	22775.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	50841.6	0.0	50841.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6753.7	13.3
10°-20°	17512.5	34.4
20°-30°	16046.3	31.6
30°-40°	6482.7	12.8
40°-50°	1901.7	3.7
50°-60°	1063.3	2.1
60°-70°	645.8	1.3
70°-80°	328.1	0.6
80°-90°	107.3	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°	50841.6	100.0
0°-180°	50841.6	100.0

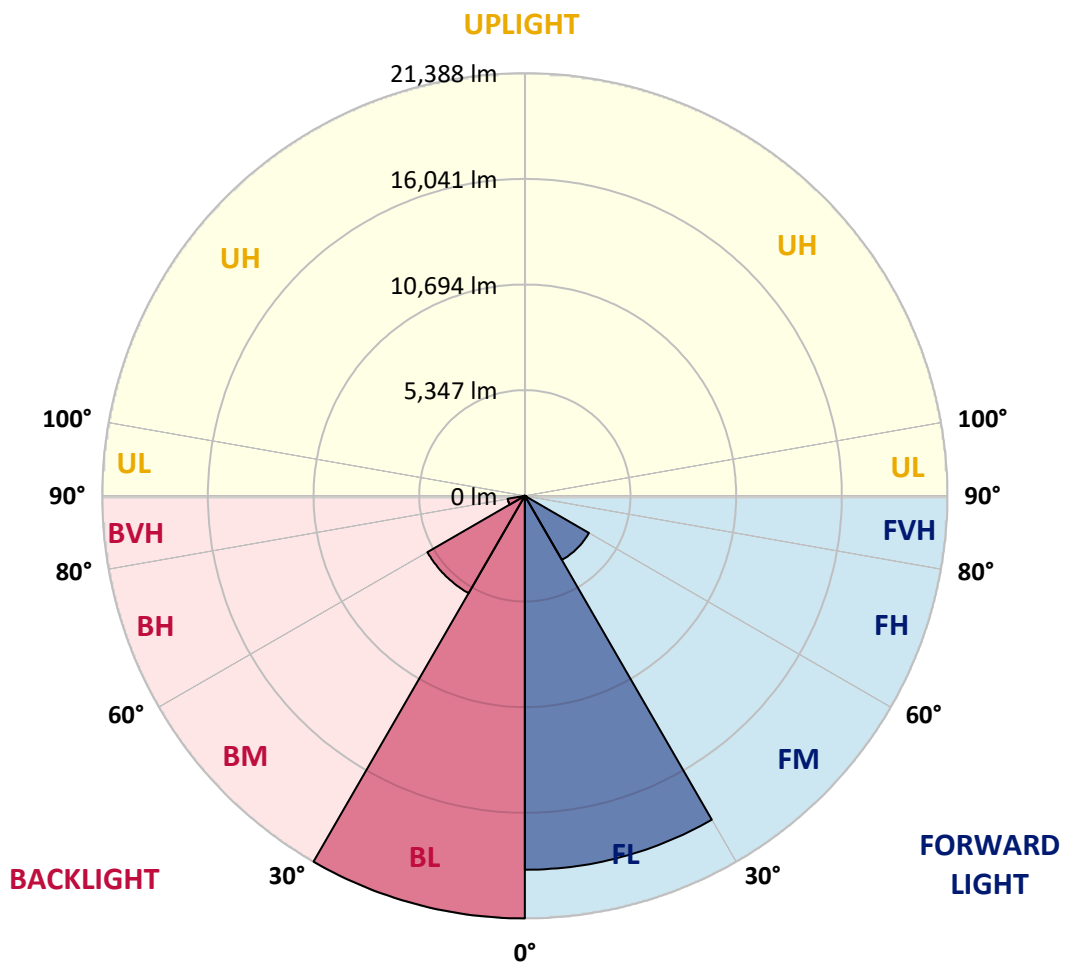


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	18924.5	37.2			
FM (30°-60°)	3750.5	7.4			
FH (60°-80°)	90.8	0.2			G0/660
FVH (80°-90°)	9.3	0.0			G0/10
BL (0°-30°)	21388.0	42.1	B5		
BM (30°-60°)	5697.2	11.2	B4/8500		
BH (60°-80°)	883.1	1.7	B2/1000		G2/1000
BVH (80°-90°)	98.0	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-G2
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	70826.2	70826.2	70826.2	70826.2	70826.2	70826.2	70826.2	70826.2	70826.2	70826.2
2.5°	69290.2	69524.7	69055.7	69366.4	69606.8	70181.3	70228.2	70427.6	70497.9	71019.7
5°	67977.0	68158.7	67777.7	68193.9	68534.0	69044.0	69436.8	69987.9	70292.7	70908.3
7.5°	66611.0	66652.1	66575.8	67015.5	67525.6	68229.1	68715.7	69436.8	69624.4	70503.8
10°	64957.8	64658.8	64805.3	65450.2	66212.4	67291.1	67625.2	68346.3	68680.5	69577.5
12.5°	62319.6	62472.0	62290.3	63111.0	63744.2	64969.5	65321.2	66048.2	66687.2	67478.7
15°	58602.7	58514.7	58884.1	59523.1	60209.0	61182.2	61750.9	62542.4	63029.0	63849.7
17.5°	50248.5	50547.5	52071.7	53672.2	55079.3	56216.6	56896.7	57553.3	57905.0	58796.1
20°	43395.1	43019.9	43225.0	44127.9	48132.1	49873.3	50588.5	50746.8	50893.3	51596.9
22.5°	35732.6	35609.5	36295.4	37309.7	38259.4	42275.3	43248.5	42879.2	43184.0	43846.5
25°	26534.2	27155.6	27765.3	29711.7	30942.9	32912.7	34759.4	34923.6	35035.0	35451.2
27.5°	21597.9	21381.0	21369.2	21914.4	23731.9	25373.4	26944.6	27308.1	27243.6	27642.2
30°	16978.1	16907.8	16661.5	16790.5	16608.8	18068.6	18807.3	20302.2	20220.2	20231.9
32.5°	12247.0	11983.2	11883.5	12077.0	11889.4	11754.5	12399.4	14087.9	14058.5	14175.8
35°	7410.3	7375.2	7457.2	7627.3	7252.1	7240.3	7375.2	8963.9	9157.4	9345.0
37.5°	4092.1	4056.9	4121.4	4748.7	4625.6	4514.2	4549.4	5387.7	5944.7	6085.4
40°	2696.8	2690.9	2737.8	2849.2	3060.3	3019.2	3036.8	3412.0	3939.7	4062.8
42.5°	1805.7	1811.5	1840.9	1969.8	1999.2	2210.2	2175.0	2263.0	2755.4	2861.0
45°	1442.2	1436.3	1453.9	1395.3	1430.5	1647.4	1670.8	1676.7	2098.8	2163.3
47.5°	1137.3	1137.3	1154.9	1078.7	1061.1	1196.0	1319.1	1336.7	1676.7	1764.6
50°	797.3	797.3	885.3	850.1	891.1	932.2	1067.0	1084.6	1371.9	1465.7
52.5°	586.3	598.0	609.7	615.6	750.4	744.6	861.8	943.9	1037.7	1201.8
55°	445.6	457.3	428.0	457.3	556.9	621.4	644.9	762.1	826.6	1008.4
57.5°	293.1	322.4	299.0	351.8	375.2	480.7	515.9	627.3	668.3	826.6
60°	41.0	46.9	76.2	246.2	263.8	316.6	398.7	498.3	539.4	674.2
62.5°	5.9	5.9	17.6	41.0	175.9	211.1	299.0	345.9	398.7	504.2
65°	0.0	0.0	5.9	11.7	35.2	123.1	152.4	187.6	275.5	363.5
67.5°	0.0	0.0	5.9	11.7	17.6	41.0	64.5	123.1	158.3	252.1
70°	0.0	0.0	5.9	11.7	17.6	23.5	35.2	46.9	93.8	146.6
72.5°	0.0	0.0	5.9	11.7	17.6	23.5	29.3	35.2	41.0	93.8
75°	0.0	0.0	5.9	11.7	17.6	29.3	35.2	35.2	35.2	41.0
77.5°	0.0	0.0	5.9	11.7	23.5	35.2	41.0	35.2	29.3	29.3
80°	0.0	0.0	5.9	17.6	29.3	41.0	46.9	35.2	23.5	17.6
82.5°	0.0	0.0	5.9	17.6	29.3	41.0	46.9	41.0	23.5	17.6
85°	0.0	0.0	5.9	17.6	23.5	29.3	46.9	41.0	23.5	11.7
87.5°	0.0	0.0	0.0	5.9	5.9	11.7	23.5	17.6	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°
70826.2	0°	70826.2	70826.2	70826.2	70826.2	70826.2	70826.2	70826.2	70826.2	70826.2
71008.0	2.5°	71535.6	71799.4	72262.6	72391.6	72790.2	72332.9	72080.8	72104.3	71559.1
70832.1	5°	71535.6	72139.5	72948.5	73335.4	73628.6	73605.1	73540.6	73376.5	72977.8
70480.3	7.5°	71348.0	72332.9	73446.8	73962.7	74314.5	74285.2	74431.7	74167.9	73681.3
69853.0	10°	70744.2	71600.1	72971.9	73394.1	73962.7	73974.5	73792.7	73845.5	72977.8
67560.8	12.5°	68844.7	69513.0	70714.8	71195.6	71887.4	71998.8	71799.4	71723.2	70902.4
63802.8	15°	65168.8	65555.7	66763.4	67244.2	67930.1	67836.3	68035.6	67953.6	67232.5
58725.8	17.5°	59792.8	59915.9	61182.2	61586.8	62231.6	62483.7	62184.7	62565.8	61944.4
51720.0	20°	52083.5	52745.9	54170.5	54792.0	55167.2	55618.6	55225.8	55653.8	54926.8
43219.2	22.5°	44262.7	44655.5	45945.3	46842.3	47539.9	47627.9	47481.3	47780.3	46801.2
35726.8	25°	35720.9	36371.7	37391.7	38564.3	39250.2	39672.3	39291.2	39484.7	39326.4
27706.7	27.5°	28175.7	28756.1	29524.1	30397.7	31429.5	31980.6	31675.7	32004.0	31230.1
20659.8	30°	20677.4	20970.6	21838.2	22764.5	23896.0	24564.4	24593.7	24927.8	24470.5
14474.8	32.5°	14580.3	14838.3	15371.8	15987.3	17066.1	17810.6	17693.4	17740.3	17458.9
9432.9	35°	9479.8	9825.7	10206.8	10499.9	11150.7	11971.5	11907.0	11848.3	11654.9
6202.6	37.5°	6337.5	6472.3	6683.4	6947.2	7369.3	7885.2	8055.2	7844.2	7762.1
4185.9	40°	4285.6	4520.1	4660.8	4860.1	5059.4	5493.3	5610.5	5569.5	5487.4
2931.3	42.5°	3042.7	3224.4	3400.3	3593.8	3699.3	3969.0	4197.6	4133.1	4098.0
2227.8	45°	2309.9	2474.0	2679.2	2825.8	2931.3	3089.6	3306.5	3330.0	3277.2
1788.1	47.5°	1852.6	1999.2	2163.3	2345.0	2468.2	2567.8	2755.4	2825.8	2790.6
1506.7	50°	1571.2	1682.6	1840.9	2022.6	2157.4	2245.4	2409.5	2485.7	2462.3
1260.5	52.5°	1336.7	1471.5	1618.1	1770.5	1934.7	2022.6	2175.0	2286.4	2268.8
1043.5	55°	1108.0	1283.9	1436.3	1588.8	1776.4	1864.3	1999.2	2145.7	2116.4
885.3	57.5°	967.3	1113.9	1272.2	1418.8	1618.1	1735.3	1858.4	2010.9	2005.0
727.0	60°	809.0	955.6	1131.5	1254.6	1465.7	1629.8	1741.2	1899.5	1911.2
551.1	62.5°	644.9	826.6	961.5	1131.5	1325.0	1518.4	1623.9	1782.2	1840.9
422.1	65°	480.7	680.1	832.5	1002.5	1184.2	1401.2	1495.0	1653.3	1711.9
304.9	67.5°	357.6	510.0	703.5	850.1	1055.3	1242.9	1354.3	1500.8	1541.9
181.7	70°	269.7	392.8	586.3	715.2	926.3	1078.7	1190.1	1301.5	1354.3
123.1	72.5°	158.3	293.1	463.1	615.6	797.3	926.3	1008.4	1096.3	1131.5
58.6	75°	111.4	222.8	363.5	510.0	644.9	750.4	826.6	902.8	938.0
29.3	77.5°	58.6	164.2	287.3	410.4	504.2	592.1	668.3	727.0	750.4
23.5	80°	35.2	117.3	234.5	322.4	386.9	463.1	539.4	580.4	574.5
17.6	82.5°	23.5	93.8	170.0	234.5	281.4	340.0	392.8	422.1	422.1
11.7	85°	17.6	64.5	117.3	181.7	187.6	234.5	246.2	275.5	281.4
11.7	87.5°	11.7	41.0	64.5	105.5	99.7	123.1	129.0	146.6	158.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
70826.2
71119.4
73106.8
73792.7
72725.7
70714.8
67461.1
61791.9
54868.2
46666.4
39226.7
31429.5
24552.6
17617.2
11484.9
7744.5
5499.1
4068.7
3271.3
2773.0
2456.4
2257.1
2116.4
1999.2
1911.2
1835.0
1706.0
1541.9
1342.5
1119.8
926.3
744.6
568.7
416.2
275.5
152.4
0.0

(END OF REPORT)