

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: P638879

Luminaire Tested: **EPH-VN-07-E-940-U-LAM-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638879  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-07-E-940-U-LAM-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (112) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30065.1 lumens  
Efficiency: N/A  
Efficacy: 56.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

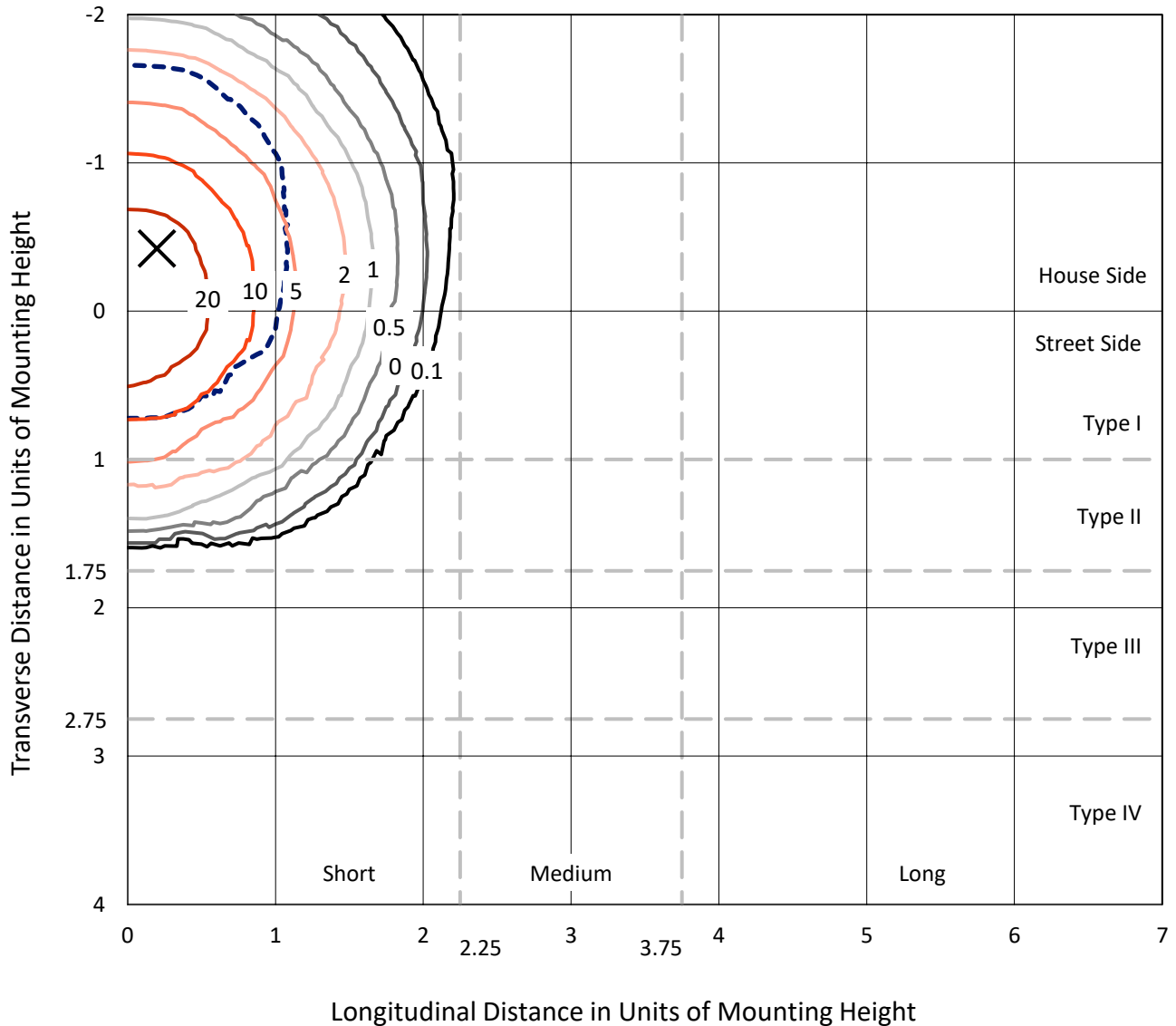
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

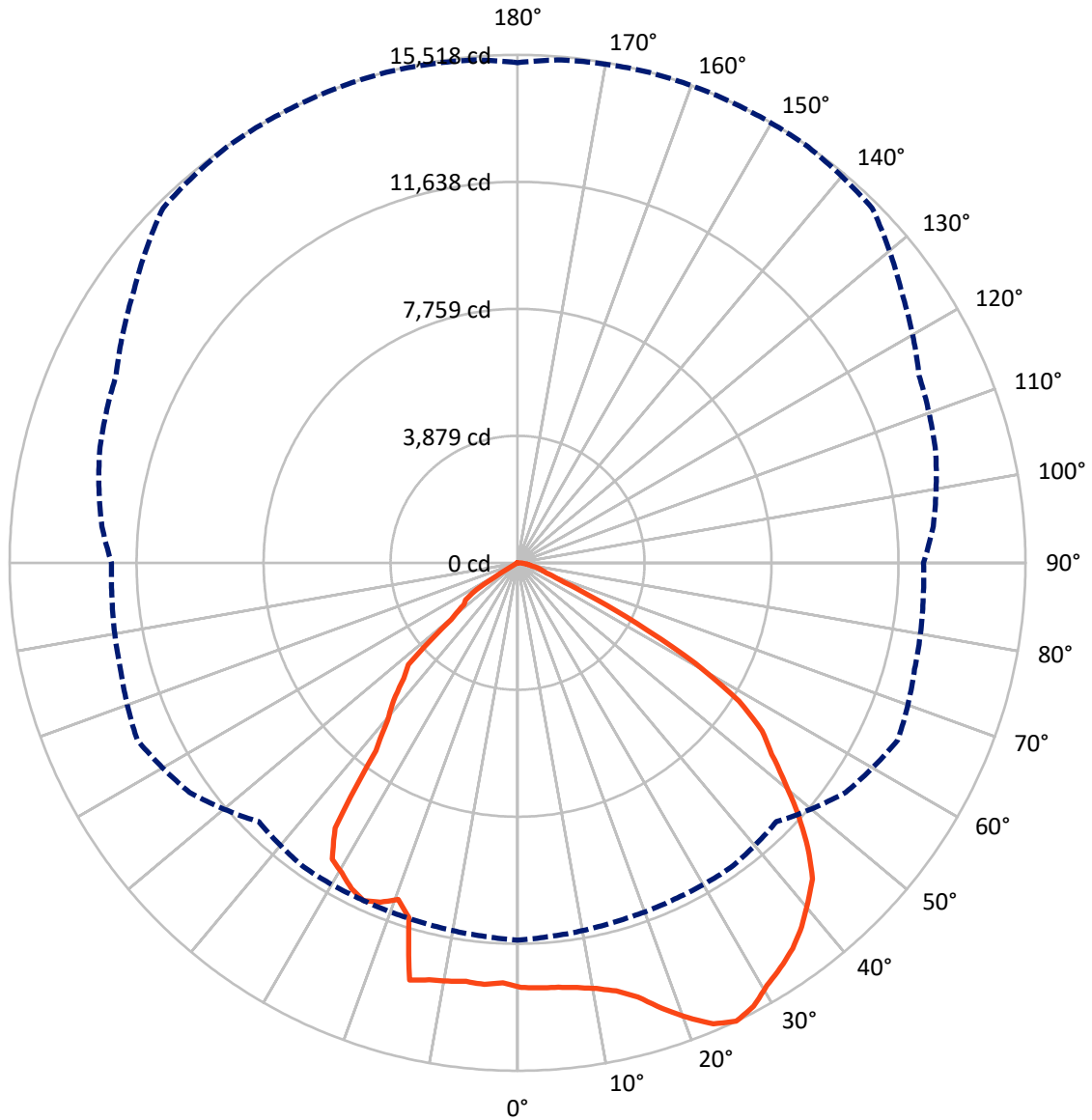
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 32.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18613.4	0.0	18613.4
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	11451.7	0.0	11451.7
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	30065.1	0.0	30065.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1244.5	4.1
10°-20°	3800.1	12.6
20°-30°	6007.8	20.0
30°-40°	6786.4	22.6
40°-50°	6355.6	21.1
50°-60°	4381.7	14.6
60°-70°	1177.2	3.9
70°-80°	245.3	0.8
80°-90°	66.4	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°	30065.1	100.0
0°-180°	30065.1	100.0

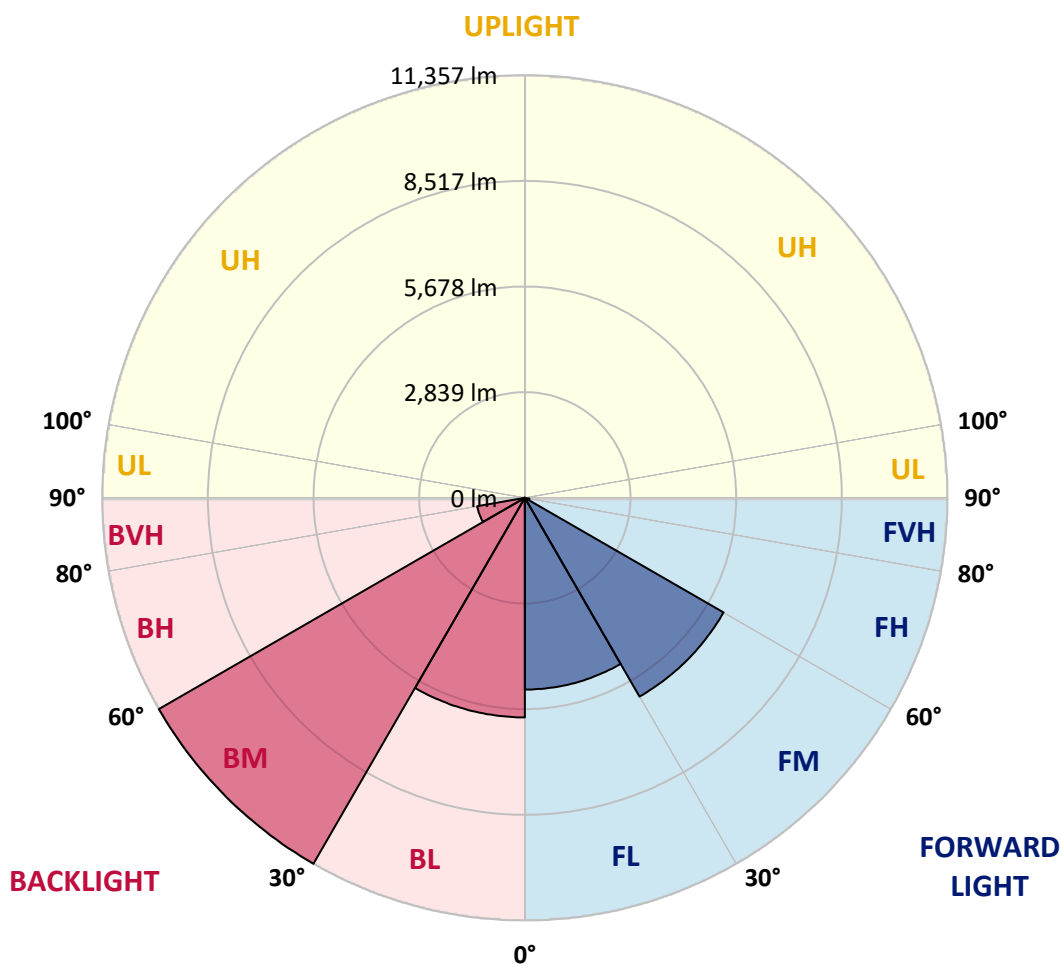


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5152.2	17.1			
FM (30°-60°)	6167.0	20.5			
FH (60°-80°)	123.6	0.4			G0/660
FVH (80°-90°)	8.9	0.0			G0/10
BL (0°-30°)	5900.3	19.6	B5		
BM (30°-60°)	11356.6	37.8	B5		
BH (60°-80°)	1299.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	57.5	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-G3**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12972.5	12972.5	12972.5	12972.5	12972.5	12972.5	12972.5	12972.5	12972.5	12972.5
2.5°	13030.0	12946.0	12866.5	12840.0	12950.4	13069.7	12994.6	12999.0	12972.5	13021.1
5°	13127.2	13012.3	12959.3	12919.5	12937.2	13060.9	12954.9	12994.6	12950.4	13007.9
7.5°	13091.8	13012.3	12959.3	12884.2	12941.6	13087.4	12985.8	12990.2	12968.1	13021.1
10°	13069.7	13012.3	12946.0	12954.9	13021.1	13144.9	13065.3	13109.5	13078.6	13109.5
12.5°	13122.8	13060.9	13025.6	13025.6	13083.0	13224.4	13184.6	13224.4	13211.1	13237.6
15°	12623.5	12680.9	13016.7	13166.9	13281.8	13423.2	13405.5	13445.3	13454.1	13493.9
17.5°	10648.4	10591.0	10564.5	11337.7	13392.3	13829.7	13816.5	13812.0	13767.9	13736.9
20°	10909.1	10887.0	10856.1	10913.5	11143.3	14041.8	14130.2	13586.7	13427.6	13414.4
22.5°	11324.5	11289.1	11174.2	11178.7	11249.3	12208.1	13692.7	13197.9	13144.9	13113.9
25°	11527.7	11457.0	11364.2	11337.7	11359.8	11183.1	12230.2	12817.9	12557.2	12437.9
27.5°	11169.8	11174.2	11099.1	11169.8	11085.9	10290.5	9844.3	12075.6	12066.8	12013.7
30°	10900.3	10887.0	10798.7	10887.0	10308.2	9420.1	9230.1	11262.6	11169.8	11099.1
32.5°	10074.0	10082.9	10339.1	10683.8	9733.8	9031.3	8456.9	10060.8	10940.1	10900.3
35°	7206.5	7224.1	8134.3	9835.4	8863.4	8258.1	8213.9	8695.5	10577.7	10595.4
37.5°	6936.9	6936.9	6914.9	7193.2	8178.5	7944.4	8032.7	7984.1	9689.6	9733.8
40°	6742.5	6702.8	6671.8	6234.4	5686.5	7723.4	7785.3	7564.4	9159.4	9168.3
42.5°	6508.4	6464.2	6473.0	5664.4	5090.0	7175.5	7003.2	6707.2	8275.7	8284.6
45°	6079.8	6154.9	6207.9	4957.5	4913.3	5125.4	6459.8	6274.2	7679.2	7842.7
47.5°	3092.9	3159.2	4847.0	4559.8	4661.5	4555.4	5456.8	5461.2	6389.1	6932.5
50°	2805.7	2788.0	2792.5	2659.9	4303.6	3685.0	3945.7	5006.1	5116.6	5894.2
52.5°	2615.7	2611.3	2341.8	2081.1	2704.1	3243.1	2863.1	3623.1	3804.3	4992.8
55°	1935.3	2076.7	1846.9	1957.4	1692.3	2598.0	2584.8	3269.6	3331.5	4003.1
57.5°	17.7	22.1	53.0	1489.0	1170.9	1299.0	1785.0	2231.3	2341.8	3119.4
60°	4.4	8.8	22.1	44.2	760.0	799.7	1193.0	1290.2	1453.7	1860.2
62.5°	0.0	0.0	8.8	22.1	39.8	327.0	380.0	415.3	640.7	950.0
65°	0.0	0.0	4.4	13.3	22.1	53.0	92.8	194.4	278.4	344.6
67.5°	0.0	0.0	4.4	8.8	17.7	26.5	53.0	75.1	119.3	203.2
70°	0.0	0.0	4.4	8.8	13.3	22.1	35.3	53.0	70.7	101.6
72.5°	0.0	0.0	4.4	8.8	8.8	26.5	26.5	39.8	53.0	66.3
75°	0.0	0.0	4.4	4.4	8.8	17.7	26.5	30.9	35.3	53.0
77.5°	0.0	0.0	4.4	8.8	13.3	17.7	22.1	35.3	30.9	30.9
80°	0.0	0.0	4.4	13.3	13.3	22.1	26.5	35.3	22.1	22.1
82.5°	0.0	0.0	4.4	17.7	13.3	44.2	44.2	48.6	17.7	17.7
85°	0.0	0.0	13.3	8.8	26.5	44.2	39.8	26.5	22.1	13.3
87.5°	0.0	0.0	4.4	4.4	8.8	13.3	30.9	26.5	8.8	8.8
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°
12972.5	0°	12972.5	12972.5	12972.5	12972.5	12972.5	12972.5	12972.5	12972.5	12972.5
12893.0	2.5°	13069.7	13012.3	13131.6	13118.3	13060.9	13034.4	13003.5	12977.0	12782.5
12901.8	5°	13074.2	12985.8	13131.6	13105.1	13096.3	13052.1	13025.6	13065.3	12888.6
12937.2	7.5°	13074.2	12985.8	13144.9	13153.7	13140.4	13105.1	13100.7	13127.2	12981.4
12999.0	10°	13162.5	13127.2	13259.7	13273.0	13255.3	13246.5	13224.4	13206.7	13052.1
13211.1	12.5°	13348.1	13277.4	13427.6	13467.4	13454.1	13476.2	13423.2	13449.7	13290.7
13427.6	15°	13573.4	13577.9	13692.7	13781.1	13772.3	13843.0	13763.4	13834.1	13719.3
13675.1	17.5°	13918.1	13966.7	14130.2	14262.7	14311.3	14364.3	14311.3	14333.4	14169.9
13401.1	20°	13555.8	13736.9	14523.4	14766.4	14868.0	14916.6	14828.3	14854.8	14691.3
13065.3	22.5°	13228.8	13463.0	14161.1	14921.1	15234.8	15332.0	15301.1	15296.6	15234.8
12402.6	25°	12747.2	13220.0	13533.7	14337.8	15323.1	15499.9	15517.6	15513.1	15420.4
11996.1	27.5°	12155.1	12261.2	13074.2	13564.6	14704.6	15376.2	15349.7	15221.5	15097.8
11152.1	30°	11399.6	11881.2	12247.9	13030.0	13904.8	14996.2	14996.2	14899.0	14770.8
10851.7	32.5°	11015.2	11638.2	11978.4	12261.2	13007.9	14572.0	14748.7	14647.1	14545.5
10617.5	35°	10811.9	10904.7	11700.0	11956.3	12588.1	13754.6	14470.4	14368.8	14293.6
9994.5	37.5°	10365.7	10582.2	10953.3	11638.2	11832.6	13087.4	14099.2	14046.2	13957.8
9185.9	40°	9371.5	9950.3	10520.3	11169.8	11373.1	12230.2	13648.6	13670.6	13551.4
8324.3	42.5°	8783.9	9177.1	10069.6	10507.0	11054.9	11677.9	13211.1	13246.5	13162.5
7886.9	45°	8094.6	8532.0	9159.4	9954.7	10701.5	10918.0	12437.9	12809.1	12738.4
7016.5	47.5°	7462.7	7816.2	8585.0	9389.2	10215.4	10184.5	11549.8	12247.9	12150.7
6349.3	50°	6565.8	7184.4	7546.7	8284.6	9517.3	9601.3	10604.3	11589.6	11510.0
5394.9	52.5°	5536.3	6313.9	7007.6	7683.7	8810.4	9009.2	9725.0	10918.0	10864.9
4122.4	55°	4838.2	5403.8	6185.8	6729.3	7953.2	8483.4	9066.6	10277.3	10250.8
3388.9	57.5°	3442.0	4533.3	5178.4	5938.4	6583.5	7542.3	7975.3	8973.8	8726.4
1877.8	60°	2332.9	2845.5	3632.0	4449.4	4882.4	5841.2	6243.3	7043.0	6976.7
1122.3	62.5°	1232.7	1705.5	2266.7	2677.6	2991.3	3923.6	4091.5	4953.1	4931.0
450.7	65°	543.5	720.2	1228.3	1440.4	1763.0	2196.0	2341.8	2651.1	2575.9
220.9	67.5°	282.8	428.6	693.7	852.8	1073.7	1237.2	1356.5	1453.7	1515.5
145.8	70°	172.3	313.7	428.6	592.1	737.9	870.4	963.2	1095.8	1175.3
75.1	72.5°	128.1	198.8	296.0	455.1	534.6	689.3	782.1	879.3	950.0
61.9	75°	70.7	132.6	238.6	357.9	428.6	561.1	645.1	711.4	733.5
35.3	77.5°	44.2	101.6	198.8	278.4	335.8	455.1	433.0	494.9	547.9
26.5	80°	30.9	75.1	154.6	229.8	234.2	291.6	344.6	397.7	433.0
17.7	82.5°	22.1	61.9	114.9	176.7	154.6	225.3	269.5	309.3	225.3
13.3	85°	17.7	44.2	57.4	106.0	88.4	159.1	137.0	132.6	88.4
8.8	87.5°	13.3	22.1	39.8	48.6	35.3	35.3	44.2	53.0	44.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
12972.5  
12650.0  
12738.4  
12813.5  
12923.9  
13149.3  
13529.3  
14028.5  
14576.4  
15035.9  
*15279.0*  
15000.6  
14722.2  
14461.5  
14187.6  
13869.5  
13524.8  
13153.7  
12747.2  
12221.4  
11523.3  
10900.3  
10281.7  
8699.9  
6981.1  
4935.4  
2545.0  
1515.5  
1179.7  
963.2  
720.2  
556.7  
437.4  
163.5  
88.4  
44.2  
0.0

(END OF REPORT)