

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: P638655

Luminaire Tested: **EPH-VN-04-E-935-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638655
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-04-E-935-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (64) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22398.3 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

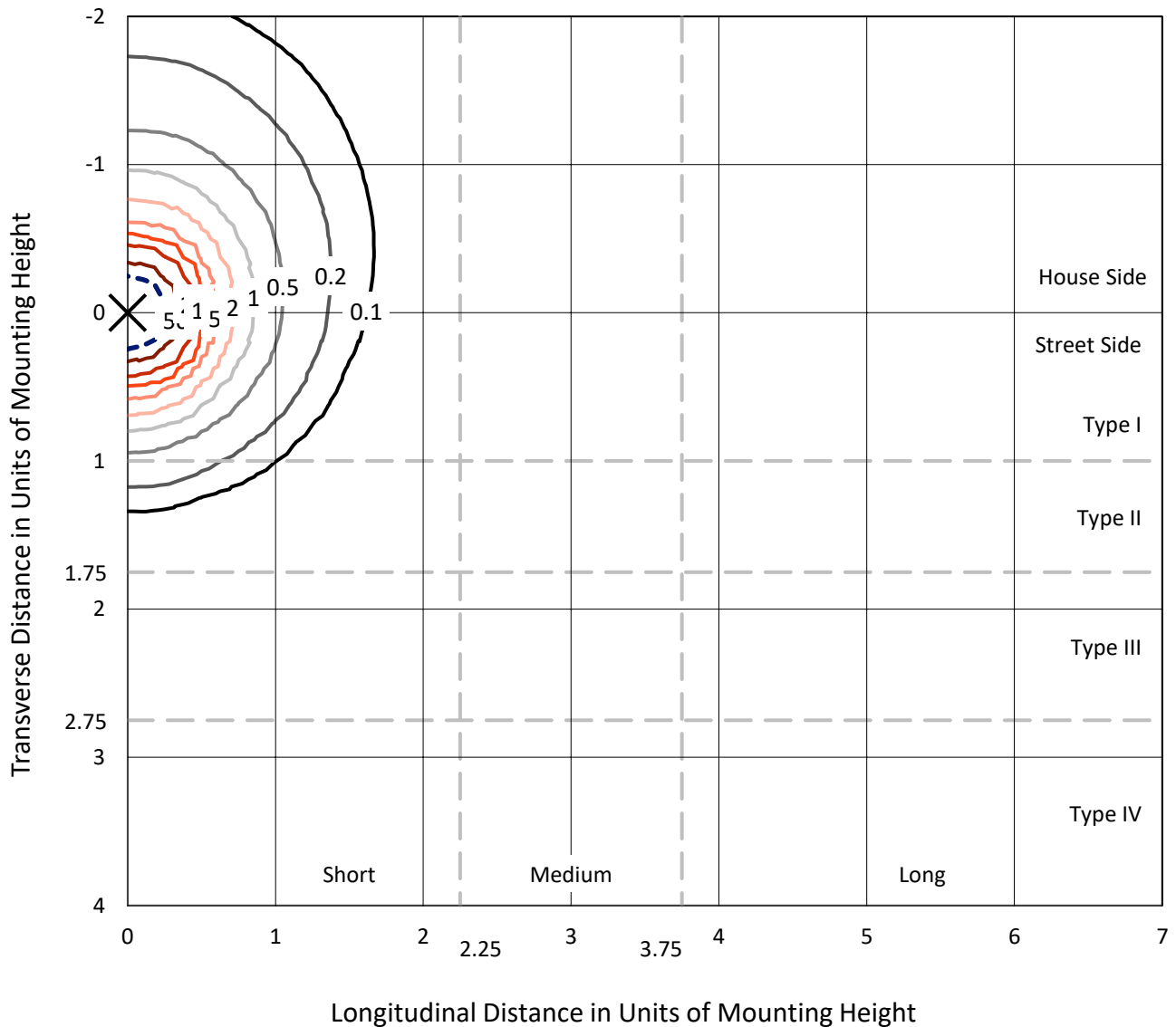
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638655
 CATALOG NUMBER: EPH-VN-04-E-935-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

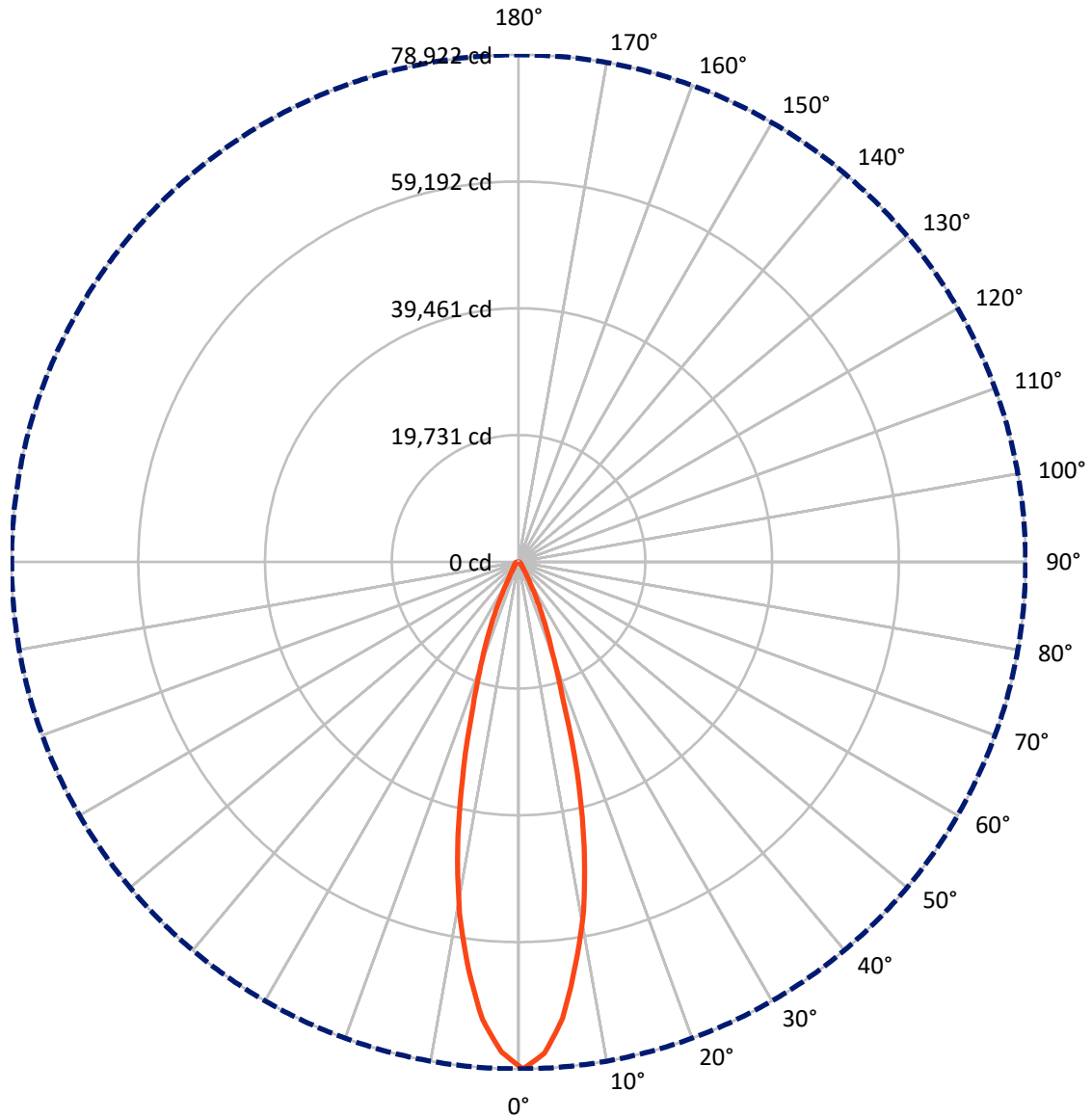
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 197.3 fc
 Type V - Short - N/A

REPORT NUMBER: P638655
CATALOG NUMBER: EPH-VN-04-E-935-U-44-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

REPORT NUMBER: P638655
 CATALOG NUMBER: EPH-VN-04-E-935-U-44-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11809.9	0.0	11809.9
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	10588.4	0.0	10588.4
	% Fixture	47.3	0.0	47.3
Total	Lumens	22398.3	0.0	22398.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6369.7	28.4
10°-20°	9646.9	43.1
20°-30°	4071.0	18.2
30°-40°	1061.8	4.7
40°-50°	537.0	2.4
50°-60°	351.0	1.6
60°-70°	210.3	0.9
70°-80°	110.6	0.5
80°-90°	40.0	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°	22398.3	100.0
0°-180°	22398.3	100.0

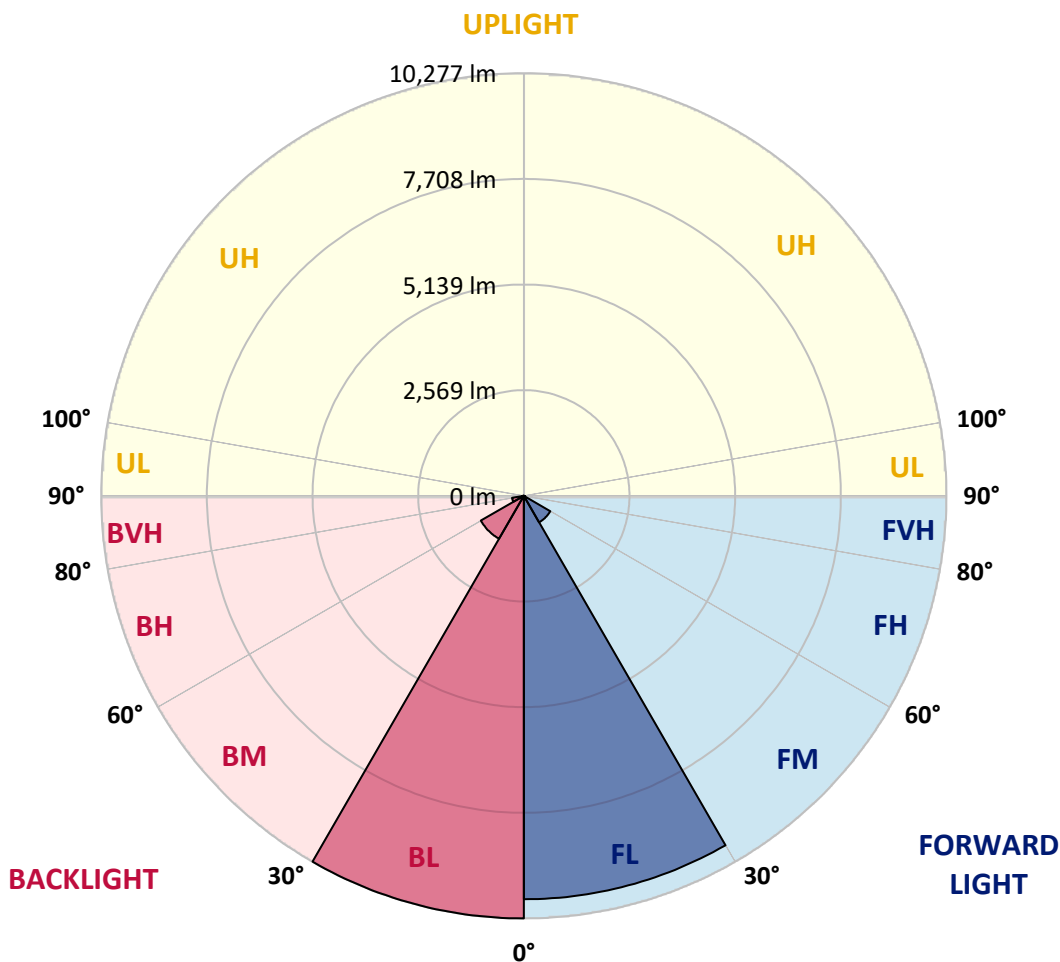


REPORT NUMBER: P638655
 CATALOG NUMBER: EPH-VN-04-E-935-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9810.3	43.8			
FM (30°-60°)	743.0	3.3			
FH (60°-80°)	30.3	0.1			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	10277.3	45.9	B5		
BM (30°-60°)	1206.8	5.4	B2/2500		
BH (60°-80°)	290.7	1.3	B1/500		G0/660
BVH (80°-90°)	35.1	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





REPORT NUMBER: P638655
 CATALOG NUMBER: EPH-VN-04-E-935-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	78922.1	78922.1	78922.1	78922.1	78922.1	78922.1	78922.1	78922.1	78922.1	78922.1
2.5°	76623.1	76665.9	76507.4	76849.5	76582.9	77297.2	76942.5	77495.9	77309.8	77619.2
5°	71391.1	71320.7	71275.4	71806.2	71652.7	72419.9	71929.4	71768.4	72266.5	72175.9
7.5°	63490.4	63676.5	63570.9	63709.2	63787.2	64662.5	64939.2	64722.9	64730.4	64856.2
10°	55390.9	55116.7	54726.8	54985.9	55534.3	55916.6	55763.2	56080.1	56009.7	56309.0
12.5°	45425.0	45641.3	45422.5	45191.1	46149.4	46043.8	46310.4	46484.0	46048.8	47017.2
15°	34216.5	34329.7	34596.4	34578.7	35315.7	35464.2	35428.9	35612.6	35273.0	35434.0
17.5°	21981.8	22364.1	23081.0	24293.4	25656.7	25815.2	25775.0	25624.0	25460.5	25279.4
20°	14765.2	14725.0	14984.0	15338.7	18160.9	18908.0	18885.4	18412.5	17728.3	17597.5
22.5°	10343.2	10418.6	10383.4	10735.6	11319.1	13379.2	13125.2	12644.7	12420.9	12275.0
25°	6804.1	6776.4	6952.5	7058.1	7558.7	7810.2	8700.7	8522.1	8177.5	8215.2
27.5°	4147.8	4183.1	4248.5	4339.0	4693.7	4613.2	5121.3	5189.2	5078.5	4960.3
30°	2545.6	2570.7	2623.5	2688.9	2812.2	2724.1	2865.0	3109.0	3068.7	2985.7
32.5°	1728.1	1730.6	1768.3	1793.5	1778.4	1695.4	1740.6	1972.0	1977.1	1969.5
35°	1242.6	1242.6	1277.8	1297.9	1255.2	1187.3	1194.8	1338.2	1401.1	1413.6
37.5°	857.7	860.3	920.6	981.0	933.2	915.6	885.4	981.0	1081.6	1096.7
40°	651.5	649.0	679.1	724.4	729.5	696.8	706.8	767.2	870.3	882.9
42.5°	528.2	530.7	545.8	540.8	543.3	586.1	601.2	628.8	724.4	747.1
45°	445.2	447.7	455.3	430.1	420.1	485.5	505.6	520.7	601.2	628.8
47.5°	367.2	372.3	379.8	352.2	347.1	389.9	425.1	440.2	510.6	540.8
50°	264.1	269.1	296.8	281.7	296.8	306.9	354.7	377.3	425.1	465.3
52.5°	191.2	196.2	203.7	206.3	244.0	249.0	284.2	319.5	342.1	387.4
55°	150.9	156.0	150.9	145.9	178.6	206.3	218.8	256.6	274.2	327.0
57.5°	85.5	90.6	98.1	113.2	118.2	158.5	171.0	203.7	218.8	269.1
60°	15.1	17.6	27.7	67.9	83.0	100.6	128.3	156.0	176.1	211.3
62.5°	2.5	2.5	5.0	15.1	47.8	70.4	93.1	110.7	128.3	161.0
65°	0.0	0.0	2.5	5.0	12.6	40.2	50.3	65.4	88.0	115.7
67.5°	0.0	0.0	2.5	5.0	7.5	15.1	22.6	40.2	50.3	78.0
70°	0.0	0.0	2.5	5.0	7.5	10.1	12.6	17.6	30.2	47.8
72.5°	0.0	0.0	2.5	5.0	7.5	10.1	12.6	15.1	15.1	30.2
75°	0.0	0.0	2.5	5.0	7.5	12.6	15.1	15.1	12.6	12.6
77.5°	0.0	0.0	2.5	5.0	10.1	15.1	17.6	15.1	10.1	10.1
80°	0.0	0.0	5.0	7.5	12.6	17.6	22.6	17.6	10.1	5.0
82.5°	0.0	0.0	5.0	10.1	12.6	20.1	27.7	22.6	10.1	5.0
85°	0.0	0.0	2.5	7.5	15.1	20.1	27.7	20.1	10.1	2.5
87.5°	0.0	0.0	2.5	2.5	5.0	7.5	15.1	12.6	5.0	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638655
 CATALOG NUMBER: EPH-VN-04-E-935-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
78922.1	0°	78922.1	78922.1	78922.1	78922.1	78922.1	78922.1	78922.1	78922.1	78922.1
77033.1	2.5°	77475.8	77878.3	77961.3	77850.6	78011.6	77722.3	77501.0	76927.5	76582.9
72148.3	5°	72613.6	72553.2	72973.3	73111.6	73094.0	72872.7	72563.3	72216.2	71879.1
64612.2	7.5°	65014.7	65092.7	65475.0	65719.0	65595.7	65319.0	65105.2	64843.6	64617.3
56417.2	10°	56932.8	56397.0	56872.4	56872.4	57202.0	56419.7	56492.6	55833.6	55863.8
46999.6	12.5°	47160.6	47354.3	47432.3	47656.1	47271.3	46856.2	46348.1	46247.5	45933.1
35127.1	15°	35632.7	36186.1	35710.7	36523.1	36130.7	35698.1	35620.1	34840.3	35086.8
25478.1	17.5°	25352.4	25963.6	26154.8	26620.1	26262.9	26006.4	25681.9	25445.4	25427.8
17836.5	20°	17977.3	18591.1	18731.9	19290.3	19250.1	19169.6	18895.4	18596.1	18271.6
12141.7	22.5°	12325.3	12825.9	13293.7	14045.8	14033.2	13796.8	13769.1	13346.5	13354.1
8202.6	25°	8288.1	8652.9	8763.5	9533.2	9618.8	9593.6	9450.2	9057.8	9206.2
5010.6	27.5°	5015.6	5335.1	5709.9	5981.5	6238.1	6197.9	6054.5	5835.7	5740.1
3010.9	30°	3091.4	3234.8	3373.1	3700.1	3853.5	3934.0	3866.1	3662.4	3677.5
1982.1	32.5°	2024.9	2145.6	2246.2	2452.5	2533.0	2681.4	2653.7	2611.0	2560.6
1426.2	35°	1476.5	1564.6	1632.5	1728.1	1831.2	1957.0	1977.1	1959.5	1939.3
1101.7	37.5°	1126.9	1217.4	1295.4	1335.7	1416.2	1514.3	1569.6	1567.1	1552.0
898.0	40°	915.6	983.5	1053.9	1106.8	1162.1	1235.0	1303.0	1310.5	1310.5
754.6	42.5°	764.7	822.5	893.0	948.3	988.5	1056.5	1126.9	1131.9	1126.9
638.9	45°	654.0	704.3	772.2	837.6	870.3	920.6	988.5	1003.6	993.6
548.3	47.5°	568.5	613.7	671.6	742.0	777.2	822.5	885.4	903.0	900.5
472.9	50°	488.0	540.8	598.7	656.5	701.8	744.5	804.9	825.0	817.5
402.5	52.5°	430.1	477.9	528.2	591.1	643.9	681.7	729.5	764.7	754.6
339.6	55°	359.7	417.6	470.4	523.2	588.6	628.8	674.1	716.9	706.8
286.8	57.5°	311.9	359.7	420.1	467.9	533.3	581.0	626.3	671.6	669.1
233.9	60°	261.6	311.9	369.8	420.1	480.4	533.3	578.5	628.8	633.9
176.1	62.5°	206.3	266.6	316.9	374.8	435.2	493.0	533.3	583.6	591.1
133.3	65°	156.0	218.8	274.2	329.5	389.9	452.8	488.0	530.7	538.3
98.1	67.5°	115.7	168.5	233.9	284.2	347.1	407.5	440.2	475.4	488.0
60.4	70°	88.0	128.3	196.2	244.0	309.4	357.2	392.4	422.6	432.6
40.2	72.5°	55.3	100.6	158.5	208.8	266.6	309.4	334.5	352.2	367.2
22.6	75°	37.7	78.0	128.3	178.6	221.4	254.1	276.7	291.8	304.4
10.1	77.5°	22.6	60.4	105.6	148.4	176.1	201.2	223.9	233.9	241.5
7.5	80°	12.6	45.3	88.0	120.7	138.3	156.0	173.6	186.1	191.2
5.0	82.5°	7.5	35.2	70.4	93.1	100.6	118.2	135.8	143.4	143.4
2.5	85°	5.0	25.2	47.8	67.9	72.9	85.5	90.6	95.6	100.6
2.5	87.5°	5.0	15.1	30.2	37.7	40.2	45.3	47.8	52.8	57.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
78922.1
76328.8
71501.8
63850.1
55569.5
45646.4
34840.3
24960.0
18130.8
13208.2
8972.3
5657.1
3612.1
2543.0
1931.8
1544.4
1295.4
1121.9
993.6
895.5
812.5
752.1
711.8
671.6
636.4
596.1
545.8
493.0
437.7
364.7
301.8
239.0
186.1
140.9
98.1
55.3
0.0

(END OF REPORT)