

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: P638628

Luminaire Tested: **EPH-VN-08-D-735-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638628
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-D-735-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53031 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

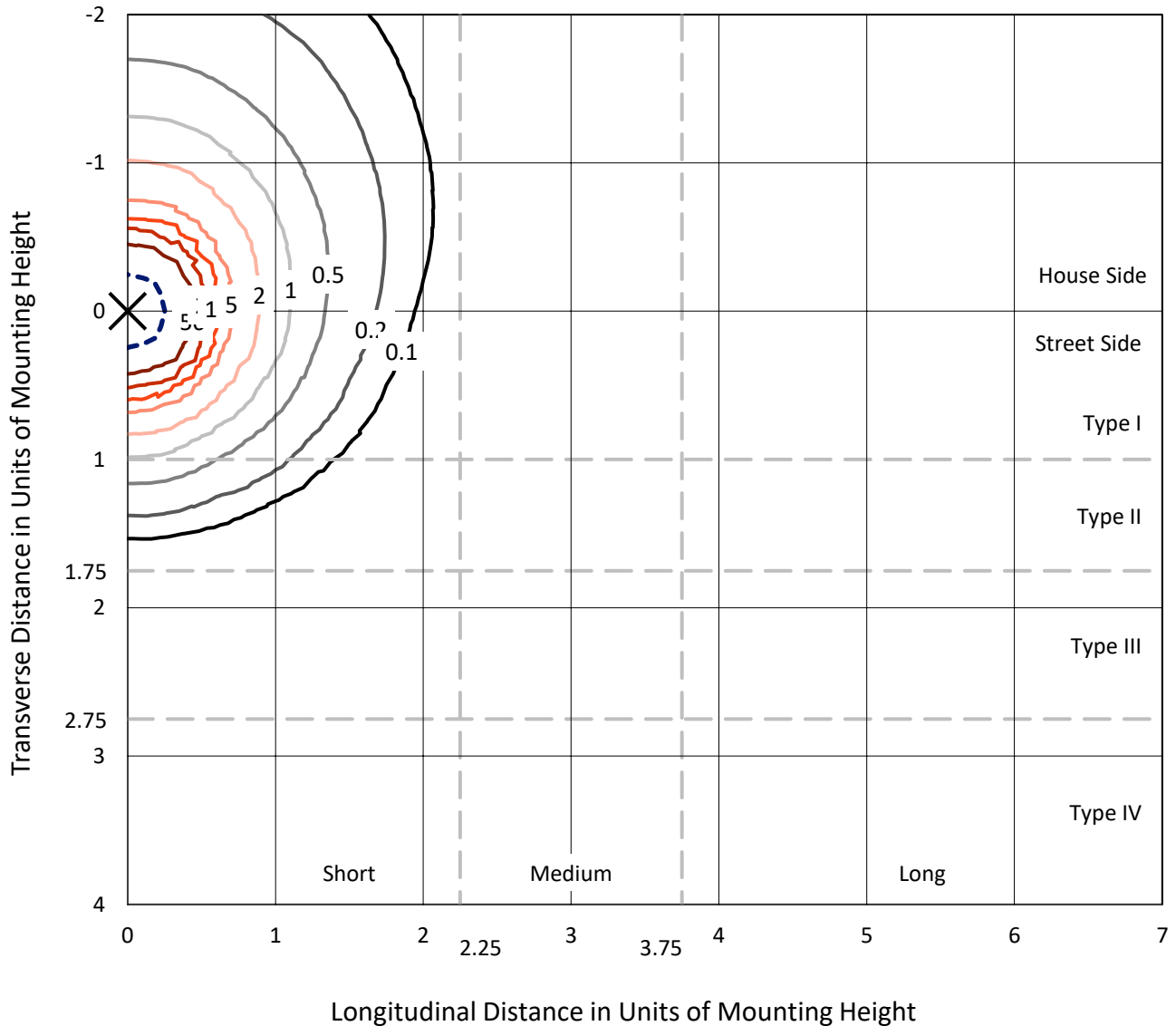
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

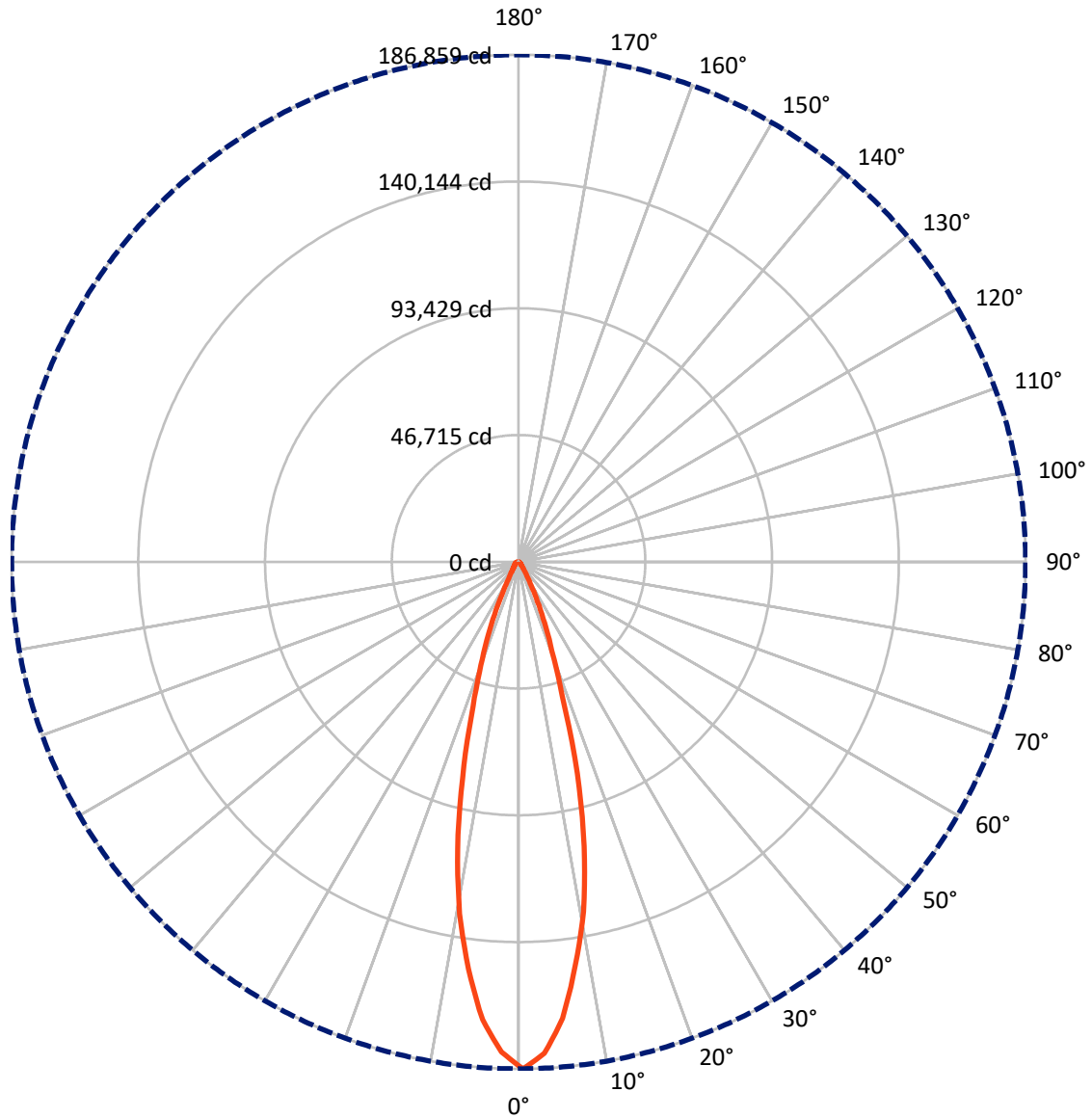
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 467.1 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	27961.5	0.0	27961.5
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	25069.5	0.0	25069.5
	% Fixture	47.3	0.0	47.3
Total	Lumens	53031.0	0.0	53031.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15081.1	28.4
10°-20°	22840.3	43.1
20°-30°	9638.7	18.2
30°-40°	2513.9	4.7
40°-50°	1271.5	2.4
50°-60°	831.1	1.6
60°-70°	497.9	0.9
70°-80°	261.9	0.5
80°-90°	94.6	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°	53031.0	100.0
0°-180°	53031.0	100.0

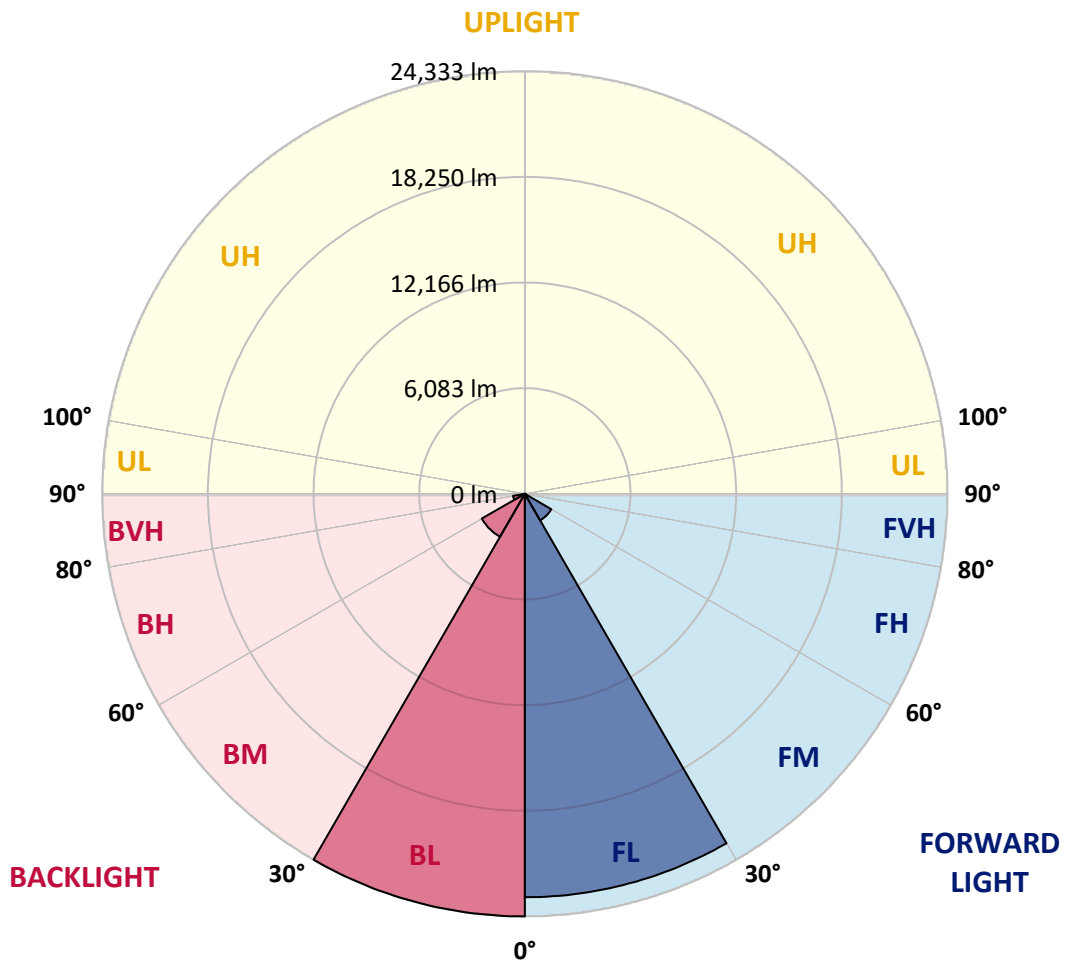


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	23227.3	43.8			
FM (30°-60°)	1759.1	3.3			
FH (60°-80°)	71.7	0.1			G0/660
FVH (80°-90°)	11.5	0.0			G1/100
BL (0°-30°)	24332.9	45.9	B5		
BM (30°-60°)	2857.4	5.4	B3/5000		
BH (60°-80°)	688.2	1.3	B2/1000		G1/1800
BVH (80°-90°)	83.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	186858.5	186858.5	186858.5	186858.5	186858.5	186858.5	186858.5	186858.5	186858.5	186858.5
2.5°	181415.2	181516.4	181141.2	181951.2	181319.9	183011.2	182171.5	183481.7	183041.0	183773.5
5°	169027.8	168861.1	168753.9	170010.5	169647.2	171463.6	170302.3	169921.1	171100.3	170885.9
7.5°	150321.7	150762.4	150512.3	150839.9	151024.5	153097.0	153752.1	153239.9	153257.8	153555.5
10°	131145.2	130496.0	129572.9	130186.3	131484.6	132389.8	132026.6	132776.9	132610.2	133318.9
12.5°	107549.6	108061.8	107543.7	106995.8	109264.8	109014.7	109645.9	110056.9	109026.6	111319.4
15°	81012.1	81280.1	81911.4	81869.7	83614.6	83966.0	83882.6	84317.4	83513.4	83894.5
17.5°	52044.8	52950.0	54647.3	57517.8	60745.7	61120.9	61025.6	60668.3	60281.2	59852.4
20°	34958.5	34863.3	35476.7	36316.4	42998.4	44767.2	44713.6	43594.0	41974.1	41664.4
22.5°	24488.8	24667.5	24584.1	25417.9	26799.6	31677.1	31075.6	29938.1	29408.1	29062.6
25°	16109.5	16044.0	16460.9	16711.0	17896.2	18491.7	20599.9	20177.1	19361.2	19450.5
27.5°	9820.6	9903.9	10058.8	10273.2	11112.9	10922.3	12125.3	12286.1	12024.1	11744.2
30°	6026.9	6086.5	6211.5	6366.4	6658.2	6449.8	6783.3	7360.9	7265.7	7069.1
32.5°	4091.4	4097.4	4186.7	4246.2	4210.5	4014.0	4121.2	4669.1	4681.0	4663.1
35°	2942.0	2942.0	3025.4	3073.0	2971.8	2811.0	2828.8	3168.3	3317.2	3347.0
37.5°	2030.8	2036.8	2179.7	2322.6	2209.5	2167.8	2096.3	2322.6	2560.8	2596.6
40°	1542.5	1536.5	1608.0	1715.2	1727.1	1649.7	1673.5	1816.4	2060.6	2090.4
42.5°	1250.6	1256.6	1292.3	1280.4	1286.4	1387.6	1423.4	1488.9	1715.2	1768.8
45°	1054.1	1060.1	1077.9	1018.4	994.6	1149.4	1197.0	1232.8	1423.4	1488.9
47.5°	869.5	881.4	899.3	833.8	821.9	923.1	1006.5	1042.2	1209.0	1280.4
50°	625.3	637.2	702.7	667.0	702.7	726.6	839.7	893.3	1006.5	1101.8
52.5°	452.6	464.5	482.4	488.3	577.7	589.6	673.0	756.3	809.9	917.1
55°	357.3	369.2	357.3	345.4	422.8	488.3	518.1	607.5	649.1	774.2
57.5°	202.5	214.4	232.3	268.0	279.9	375.2	405.0	482.4	518.1	637.2
60°	35.7	41.7	65.5	160.8	196.5	238.2	303.7	369.2	416.9	500.3
62.5°	6.0	6.0	11.9	35.7	113.2	166.8	220.4	262.0	303.7	381.1
65°	0.0	0.0	6.0	11.9	29.8	95.3	119.1	154.8	208.4	274.0
67.5°	0.0	0.0	6.0	11.9	17.9	35.7	53.6	95.3	119.1	184.6
70°	0.0	0.0	6.0	11.9	17.9	23.8	29.8	41.7	71.5	113.2
72.5°	0.0	0.0	6.0	11.9	17.9	23.8	29.8	35.7	35.7	71.5
75°	0.0	0.0	6.0	11.9	17.9	29.8	35.7	35.7	29.8	29.8
77.5°	0.0	0.0	6.0	11.9	23.8	35.7	41.7	35.7	23.8	23.8
80°	0.0	0.0	11.9	17.9	29.8	41.7	53.6	41.7	23.8	11.9
82.5°	0.0	0.0	11.9	23.8	29.8	47.6	65.5	53.6	23.8	11.9
85°	0.0	0.0	6.0	17.9	35.7	47.6	65.5	47.6	23.8	6.0
87.5°	0.0	0.0	6.0	6.0	11.9	17.9	35.7	29.8	11.9	6.0
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°
186858.5	0°	186858.5	186858.5	186858.5	186858.5	186858.5	186858.5	186858.5	186858.5	186858.5
182385.9	2.5°	183434.1	184386.9	184583.5	184321.4	184702.6	184017.7	183493.6	182135.8	181319.9
170820.4	5°	171922.2	171779.2	172773.8	173101.4	173059.7	172535.6	171803.1	170981.2	170183.2
152977.9	7.5°	153930.7	154115.4	155020.6	155598.3	155306.4	154651.3	154145.1	153525.8	152989.8
133575.0	10°	134795.8	133527.3	134652.9	134652.9	135433.1	133580.9	133753.6	132193.3	132264.8
111277.7	12.5°	111658.9	112117.5	112302.1	112832.1	111920.9	110938.3	109735.3	109497.1	108752.6
83168.0	15°	84365.0	85675.2	84549.6	86473.3	85544.2	84519.9	84335.2	82489.1	83072.7
60322.8	17.5°	60025.1	61472.2	61924.9	63026.6	62180.9	61573.5	60805.2	60245.4	60203.7
42230.2	20°	42563.7	44016.8	44350.3	45672.4	45577.1	45386.5	44737.4	44028.7	43260.5
28747.0	22.5°	29181.7	30366.9	31474.6	33255.3	33225.5	32665.7	32600.2	31599.7	31617.5
19420.7	25°	19623.2	20486.8	20748.8	22571.2	22773.7	22714.1	22374.7	21445.6	21797.0
11863.3	27.5°	11875.2	12631.5	13518.9	14162.1	14769.5	14674.2	14334.8	13816.7	13590.4
7128.7	30°	7319.3	7658.7	7986.3	8760.5	9123.8	9314.3	9153.5	8671.1	8706.9
4692.9	32.5°	4794.1	5080.0	5318.2	5806.6	5997.1	6348.5	6283.0	6181.8	6062.7
3376.7	35°	3495.9	3704.3	3865.1	4091.4	4335.6	4633.3	4681.0	4639.3	4591.7
2608.5	37.5°	2668.0	2882.4	3067.1	3162.3	3352.9	3585.2	3716.2	3710.3	3674.5
2126.1	40°	2167.8	2328.6	2495.3	2620.4	2751.4	2924.1	3084.9	3102.8	3102.8
1786.6	42.5°	1810.5	1947.4	2114.2	2245.2	2340.5	2501.3	2668.0	2680.0	2668.0
1512.7	45°	1548.4	1667.5	1828.3	1983.2	2060.6	2179.7	2340.5	2376.2	2352.4
1298.3	47.5°	1345.9	1453.1	1590.1	1756.9	1840.2	1947.4	2096.3	2138.0	2132.1
1119.6	50°	1155.4	1280.4	1417.4	1554.4	1661.6	1762.8	1905.7	1953.4	1935.5
952.9	52.5°	1018.4	1131.5	1250.6	1399.5	1524.6	1613.9	1727.1	1810.5	1786.6
804.0	55°	851.6	988.6	1113.7	1238.7	1393.6	1488.9	1596.1	1697.3	1673.5
678.9	57.5°	738.5	851.6	994.6	1107.7	1262.6	1375.7	1482.9	1590.1	1584.2
553.9	60°	619.4	738.5	875.5	994.6	1137.5	1262.6	1369.8	1488.9	1500.8
416.9	62.5°	488.3	631.3	750.4	887.4	1030.3	1167.3	1262.6	1381.7	1399.5
315.6	65°	369.2	518.1	649.1	780.2	923.1	1072.0	1155.4	1256.6	1274.5
232.3	67.5°	274.0	399.0	553.9	673.0	821.9	964.8	1042.2	1125.6	1155.4
142.9	70°	208.4	303.7	464.5	577.7	732.5	845.7	929.1	1000.5	1024.3
95.3	72.5°	131.0	238.2	375.2	494.3	631.3	732.5	792.1	833.8	869.5
53.6	75°	89.3	184.6	303.7	422.8	524.1	601.5	655.1	690.8	720.6
23.8	77.5°	53.6	142.9	250.1	351.4	416.9	476.4	530.0	553.9	571.7
17.9	80°	29.8	107.2	208.4	285.9	327.6	369.2	410.9	440.7	452.6
11.9	82.5°	17.9	83.4	166.8	220.4	238.2	279.9	321.6	339.5	339.5
6.0	85°	11.9	59.6	113.2	160.8	172.7	202.5	214.4	226.3	238.2
6.0	87.5°	11.9	35.7	71.5	89.3	95.3	107.2	113.2	125.1	137.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
186858.5
180718.4
169289.9
151173.4
131568.0
108073.7
82489.1
59096.0
42926.9
31272.1
21243.1
13393.8
8552.0
6021.0
4573.8
3656.7
3067.1
2656.1
2352.4
2120.1
1923.6
1780.7
1685.4
1590.1
1506.7
1411.4
1292.3
1167.3
1036.2
863.5
714.7
565.8
440.7
333.5
232.3
131.0
0.0

(END OF REPORT)