

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: P638771

Luminaire Tested: **EPH-VN-07-E-940-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638771
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-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (112) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34396.2 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

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



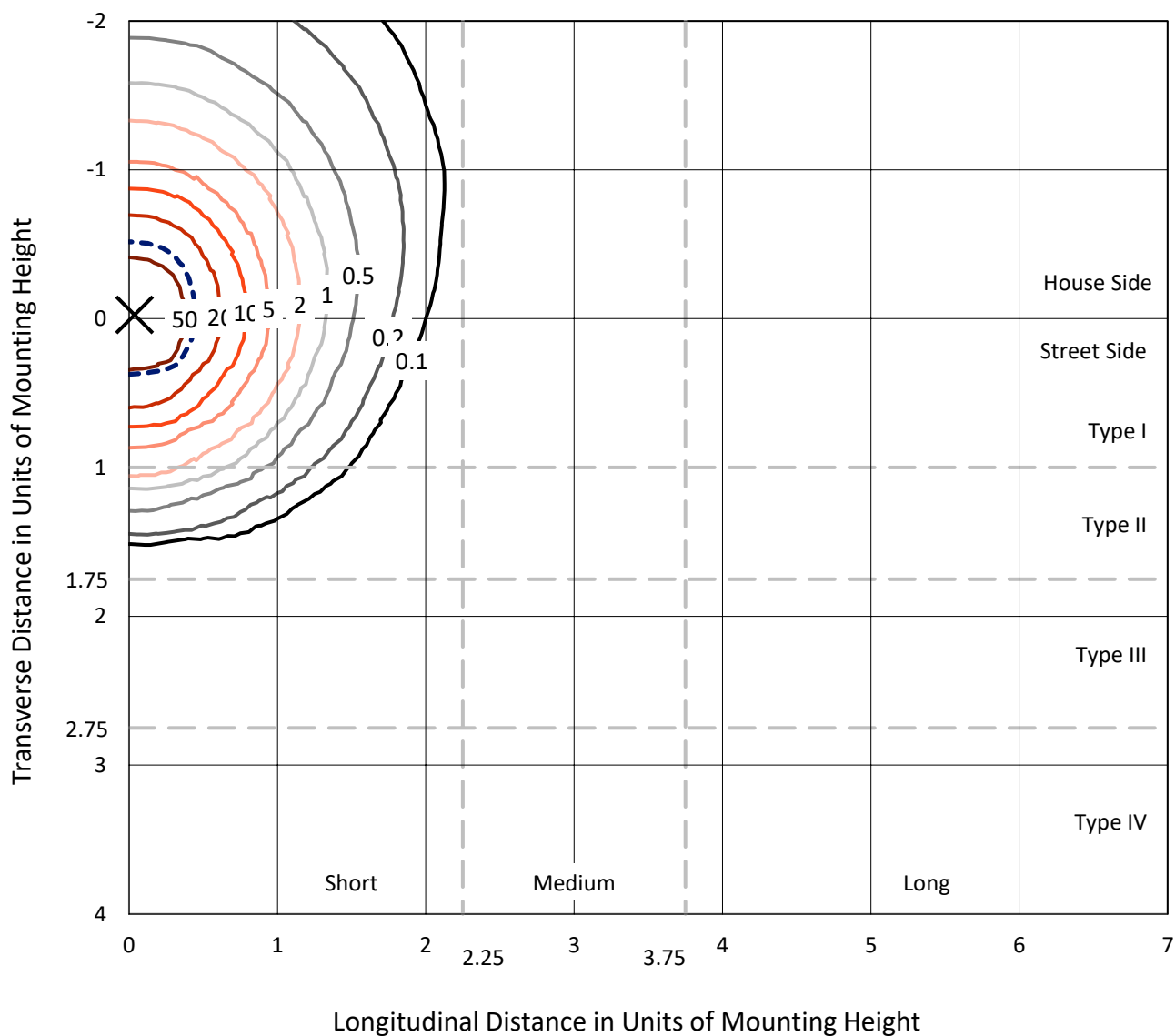
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

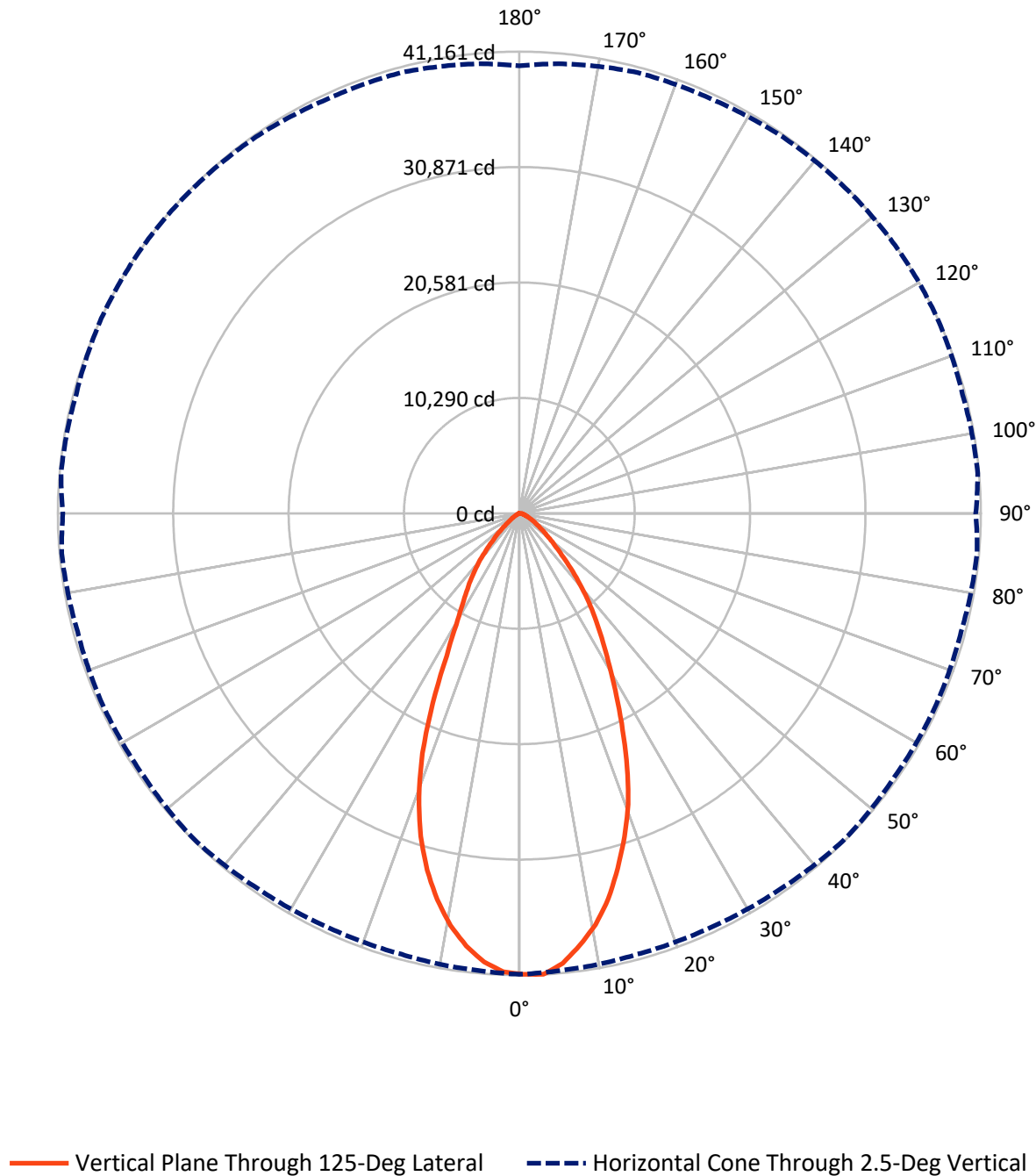


Based on 20 foot mounting height. Maximum calculated value = 102.7 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19517.7	0.0	19517.7
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	14878.4	0.0	14878.4
	% Fixture	43.3	0.0	43.3
Total	Lumens	34396.2	0.0	34396.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3731.6	10.8
10°-20°	8895.3	25.9
20°-30°	9059.7	26.3
30°-40°	6755.8	19.6
40°-50°	3529.4	10.3
50°-60°	1484.5	4.3
60°-70°	606.3	1.8
70°-80°	255.1	0.7
80°-90°	78.6	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°	34396.2	100.0
0°-180°	34396.2	100.0

Coefficient of Utilization



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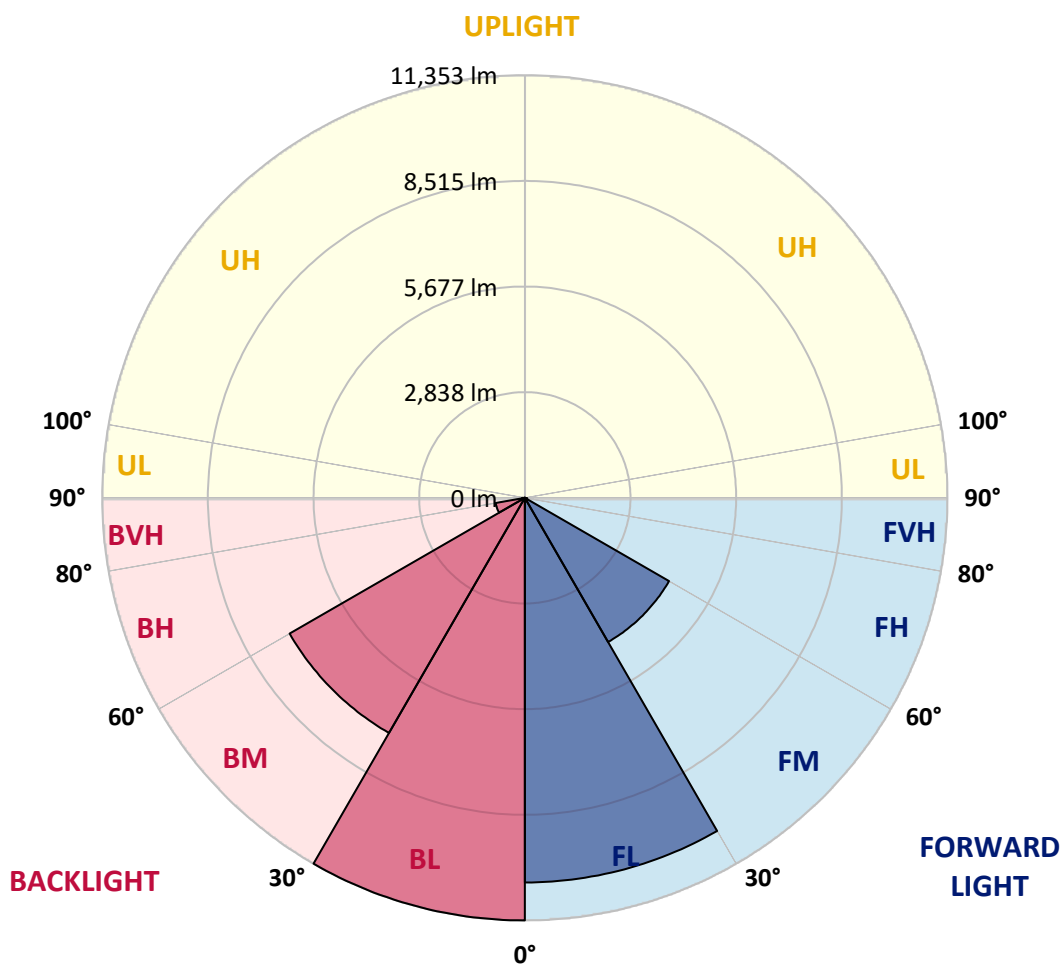
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10333.0	30.0			
FM	(30°-60°)	4473.4	13.0			
FH	(60°-80°)	64.7	0.2			G0/660
FVH	(80°-90°)	7.3	0.0			G0/10
BL	(0°-30°)	11353.5	33.0	B5		
BM	(30°-60°)	7296.3	21.2	B4/8500		
BH	(60°-80°)	796.7	2.3	B2/1000		G2/1000
BVH	(80°-90°)	71.3	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°	41095.1	41095.1	41095.1	41095.1	41095.1	41095.1	41095.1	41095.1	41095.1	41095.1
2.5°	41099.5	40931.6	40693.0	40670.9	40794.6	41064.1	40891.8	40900.7	40794.6	40975.8
5°	40454.4	40295.4	40131.9	39915.4	40096.5	40211.4	40123.0	40025.8	39888.9	40065.6
7.5°	39235.0	39146.6	38903.6	38806.4	38916.8	39045.0	38855.0	38828.5	38638.5	38868.2
10°	37370.4	37335.1	37096.5	37039.0	37136.2	37330.6	37246.7	37229.0	37109.7	37087.6
12.5°	35435.2	35298.2	35002.2	34984.5	35130.3	35421.9	35196.6	34980.1	35046.4	35103.8
15°	30451.3	30305.5	31038.9	32192.1	32797.4	32775.3	32841.6	32580.9	32501.4	32527.9
17.5°	24208.1	23960.7	24225.8	26010.8	28887.2	30557.3	30097.8	29536.7	29236.2	29037.4
20°	20894.4	20907.6	20859.0	21318.5	23112.4	26921.0	26810.6	25728.1	25334.8	25171.3
22.5°	18879.6	18804.5	18698.5	18844.3	19325.9	21561.5	23059.4	22065.2	21928.3	21747.1
25°	16904.6	16904.6	16776.5	16922.3	17059.3	17090.2	18592.4	18998.9	18733.8	18733.8
27.5°	15194.7	15106.3	15048.9	15115.2	14934.0	14063.6	14253.6	16334.6	16153.5	16043.0
30°	13498.1	13471.6	13374.3	13462.7	12791.1	11810.3	11412.6	13785.3	13975.2	13935.5
32.5°	11143.1	11249.1	11682.1	11819.1	10670.3	9879.4	9499.5	11443.5	12203.5	12172.6
35°	7573.1	7661.4	8156.3	9791.1	8845.5	8280.0	8169.5	9101.8	10352.2	10471.5
37.5°	6031.0	6017.8	6159.2	6450.8	7109.1	6972.2	6941.2	7184.2	8443.5	8496.5
40°	4970.6	4953.0	4948.6	4710.0	4546.5	5796.9	5712.9	5567.1	6658.5	6764.5
42.5°	4007.4	4025.1	4038.4	3517.0	3278.4	4471.4	4422.8	4272.5	5222.5	5346.2
45°	3145.9	3141.4	3168.0	2620.1	2553.8	2858.7	3304.9	3185.6	3941.2	4073.7
47.5°	1630.4	1687.8	2045.7	2028.0	2059.0	2028.0	2500.8	2469.9	2964.7	3176.8
50°	1095.8	1113.4	1144.4	1148.8	1621.5	1493.4	1696.6	1922.0	2076.6	2403.6
52.5°	848.3	861.6	782.0	733.4	994.1	1104.6	1113.4	1329.9	1449.2	1780.6
55°	472.8	530.2	570.0	574.4	547.9	817.4	813.0	985.3	1078.1	1299.0
57.5°	61.9	75.1	114.9	371.1	366.7	455.1	570.0	715.8	768.8	949.9
60°	4.4	8.8	13.3	57.4	243.0	265.1	388.8	446.3	534.6	667.2
62.5°	0.0	0.0	4.4	13.3	48.6	154.6	203.2	234.2	313.7	437.4
65°	0.0	0.0	4.4	8.8	17.7	57.4	79.5	128.1	185.6	269.5
67.5°	0.0	0.0	4.4	8.8	13.3	22.1	35.3	57.4	97.2	163.5
70°	0.0	0.0	4.4	8.8	13.3	17.7	26.5	35.3	53.0	88.4
72.5°	0.0	0.0	4.4	4.4	8.8	22.1	22.1	26.5	35.3	48.6
75°	0.0	0.0	4.4	8.8	13.3	22.1	22.1	22.1	26.5	30.9
77.5°	0.0	0.0	4.4	8.8	13.3	22.1	17.7	22.1	22.1	22.1
80°	0.0	0.0	4.4	8.8	13.3	22.1	26.5	22.1	17.7	17.7
82.5°	0.0	0.0	4.4	13.3	13.3	30.9	30.9	30.9	13.3	13.3
85°	0.0	0.0	8.8	13.3	22.1	35.3	35.3	26.5	13.3	8.8
87.5°	0.0	0.0	4.4	8.8	8.8	17.7	26.5	22.1	8.8	4.4
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°
41095.1	0°	41095.1	41095.1	41095.1	41095.1	41095.1	41095.1	41095.1	41095.1	41095.1
40710.7	2.5°	41037.6	40927.2	41134.8	41161.4	41073.0	40962.5	40706.3	40684.2	40237.9
39809.3	5°	40260.0	40078.9	40211.4	40299.8	40268.8	40149.5	40043.5	39946.3	39544.2
38346.9	7.5°	38810.8	38744.5	38806.4	38872.6	39000.8	38872.6	38828.5	38726.8	38329.2
36906.5	10°	37202.5	37078.8	37313.0	37282.0	37246.7	37211.3	37025.8	37043.4	36575.1
34944.7	12.5°	35227.5	35019.8	35245.2	35271.7	35245.2	35121.5	34913.8	35002.2	34573.6
32293.7	15°	32572.1	32550.0	32713.5	32819.5	32894.6	32762.1	32691.4	32735.6	32479.3
28882.8	17.5°	29311.3	29598.5	30133.1	30314.3	30318.7	30455.7	30415.9	30362.9	30172.9
25105.1	20°	25476.2	26028.5	26850.3	27694.2	27937.2	27822.4	27769.3	27866.5	27583.8
21557.1	22.5°	21937.1	22409.9	23364.2	24597.0	25308.3	25379.0	25365.7	25281.8	25171.3
18716.1	25°	18932.6	19352.4	20267.0	21393.7	22758.9	22962.2	22971.0	22944.5	22847.3
16140.2	27.5°	16396.5	16904.6	17408.3	18415.7	19869.3	20708.8	20602.8	20571.8	20536.5
13966.4	30°	14099.0	14739.6	15212.4	15839.8	17143.2	18278.7	18389.2	18336.2	18252.2
12168.1	32.5°	12278.6	12658.6	13259.5	13683.6	14620.3	15906.1	16330.2	16290.5	16215.3
10546.6	35°	10696.8	10847.1	11319.8	11792.6	12415.6	13661.5	14288.9	14200.6	14187.3
8593.7	37.5°	8810.2	9313.9	9574.6	10051.7	10489.2	11456.8	12322.8	12283.0	12287.4
6910.3	40°	7113.5	7405.2	7922.1	8324.2	8726.2	9433.2	10396.4	10422.9	10414.1
5350.6	42.5°	5461.1	5743.9	6287.3	6724.7	7082.6	7520.0	8439.0	8470.0	8509.7
4166.5	45°	4263.7	4444.9	4842.5	5297.6	5677.6	5942.7	6640.8	6839.6	6844.0
3229.8	47.5°	3309.3	3517.0	3799.8	4237.2	4608.3	4798.3	5306.4	5576.0	5562.7
2478.7	50°	2598.0	2788.0	3017.7	3362.4	3764.4	3914.7	4290.2	4555.3	4542.1
1869.0	52.5°	1988.3	2231.3	2434.5	2699.6	3092.8	3221.0	3490.5	3795.4	3751.2
1369.7	55°	1506.7	1754.1	1944.1	2165.0	2522.9	2686.4	2871.9	3114.9	3123.8
1060.4	57.5°	1135.5	1391.8	1564.1	1789.4	2059.0	2240.1	2381.5	2642.2	2637.8
724.6	60°	813.0	1033.9	1241.6	1475.7	1683.4	1891.1	1988.3	2235.7	2244.5
512.5	62.5°	587.6	795.3	994.1	1197.4	1382.9	1586.2	1674.6	1869.0	1895.5
335.8	65°	410.9	556.7	786.5	941.1	1148.8	1299.0	1413.9	1581.8	1612.7
198.8	67.5°	265.1	402.1	623.0	760.0	949.9	1078.1	1197.4	1329.9	1369.7
128.1	70°	159.1	304.9	463.9	609.7	782.0	896.9	1011.8	1126.7	1148.8
61.9	72.5°	101.6	212.1	335.8	494.9	627.4	751.1	852.7	936.7	870.4
39.8	75°	57.4	145.8	265.1	388.8	508.1	627.4	711.4	755.5	605.3
26.5	77.5°	35.3	106.0	216.5	313.7	393.2	503.7	556.7	583.2	433.0
17.7	80°	22.1	79.5	181.2	256.3	256.3	371.1	433.0	455.1	313.7
13.3	82.5°	17.7	57.4	141.4	194.4	172.3	278.4	340.2	344.6	220.9
8.8	85°	13.3	44.2	88.4	128.1	119.3	194.4	198.8	220.9	145.8
8.8	87.5°	8.8	26.5	53.0	75.1	66.3	92.8	106.0	119.3	79.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
41095.1
39888.9
39221.7
38245.2
36416.0
34449.9
32170.0
29890.1
27380.5
24959.3
22520.3
20328.8
18146.2
16016.5
14041.5
12146.0
10259.4
8377.2
6729.1
5514.1
4542.1
3755.6
3123.8
2628.9
2222.4
1886.6
1603.9
1365.3
1131.1
808.6
574.4
406.5
291.6
203.2
132.6
70.7
0.0

(END OF REPORT)