

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: P638580

Luminaire Tested: **EPH-VN-08-D-740-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638580
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-740-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55440 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

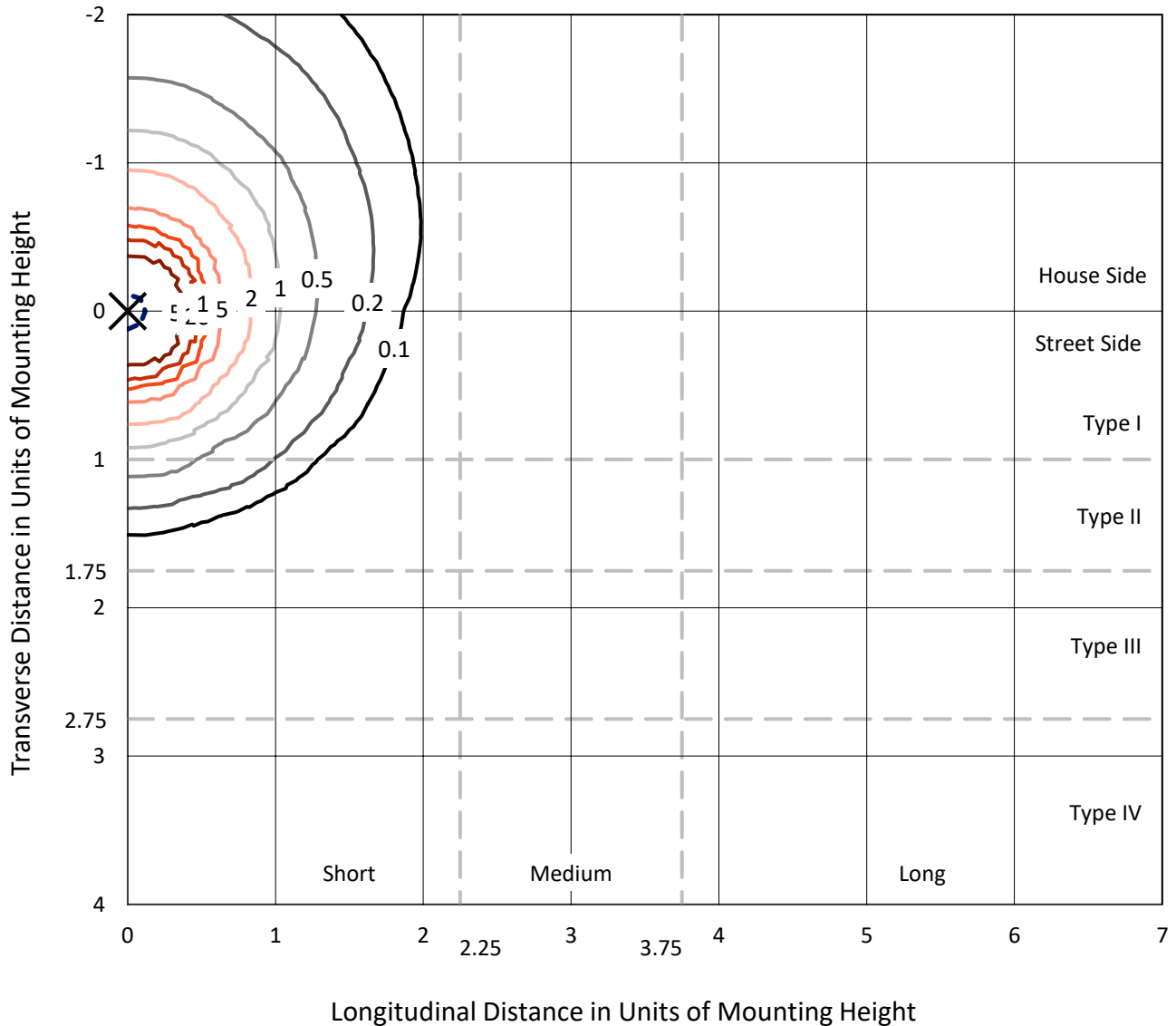
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

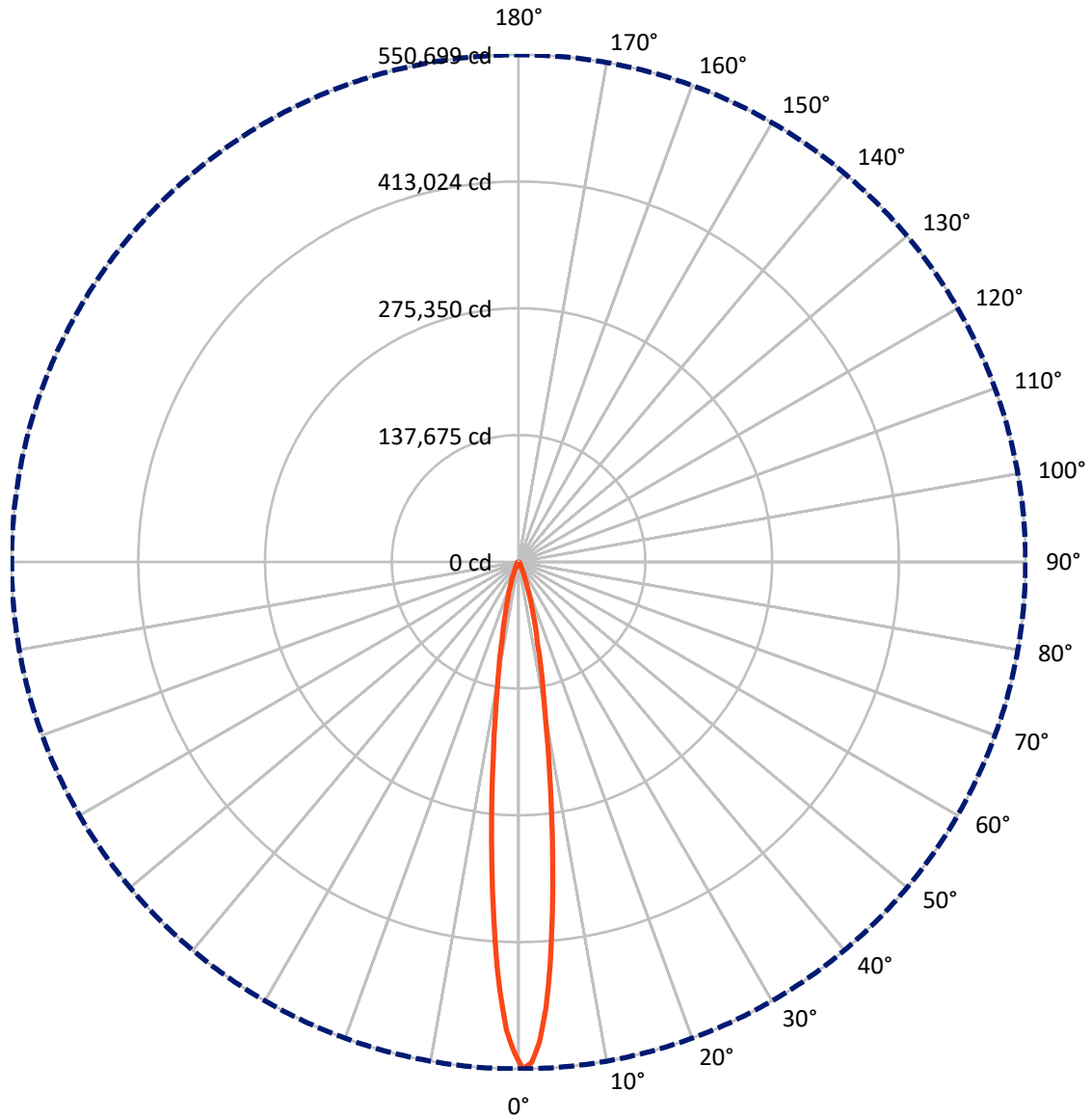
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1376.7 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	28395.4	0.0	28395.4
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	27044.7	0.0	27044.7
	% Fixture	48.8	0.0	48.8
Total	Lumens	55440.0	0.0	55440.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27987.8	50.5
10°-20°	17917.7	32.3
20°-30°	5385.7	9.7
30°-40°	1753.6	3.2
40°-50°	1020.3	1.8
50°-60°	677.7	1.2
60°-70°	407.9	0.7
70°-80°	209.7	0.4
80°-90°	79.7	0.1
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°	55440.0	100.0
0°-180°	55440.0	100.0

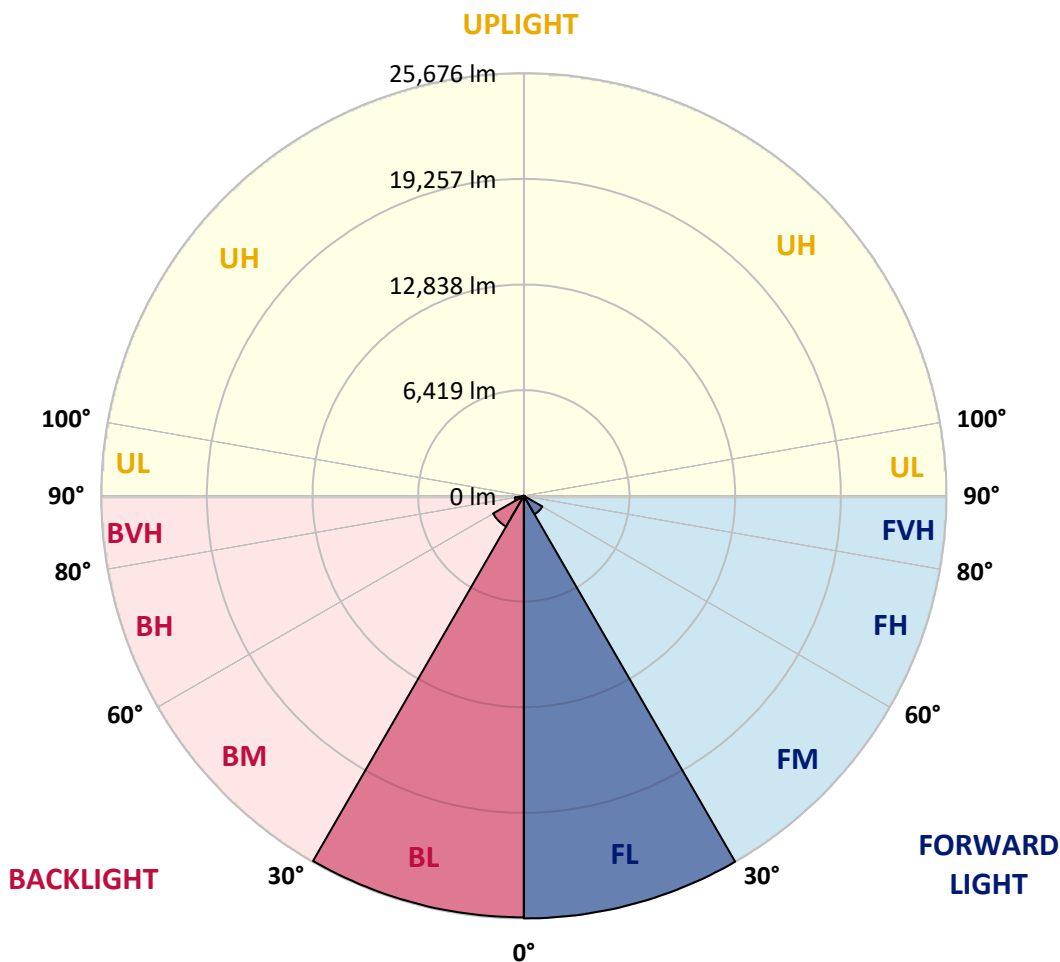


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	25676.0	46.3			
FM (30°-60°)	1295.7	2.3			
FH (60°-80°)	61.0	0.1			G0/660
FVH (80°-90°)	12.0	0.0			G1/100
BL (0°-30°)	25615.1	46.2	B5		
BM (30°-60°)	2155.9	3.9	B2/2500		
BH (60°-80°)	556.6	1.0	B2/1000		G0/660
BVH (80°-90°)	67.6	0.1			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°	550699.2	550699.2	550699.2	550699.2	550699.2	550699.2	550699.2	550699.2	550699.2	550699.2
1°	544105.3	542444.8	538157.6	541206.9	543887.9	543109.0	543054.7	542764.8	542360.3	545536.4
2°	522355.4	521280.5	514940.3	517554.9	521365.1	518587.5	520326.5	518798.8	518829.0	522621.0
3°	485690.8	486276.5	476162.4	480914.5	486210.1	479477.4	481566.6	485491.5	481379.4	480141.6
4°	438036.5	432952.3	427427.2	432257.9	433628.6	429709.7	433562.1	438368.6	432656.4	432910.0
5°	383631.4	379875.6	373336.1	376319.0	372919.5	374157.3	379929.9	381910.5	377925.2	372907.4
6°	327692.6	325023.7	316847.8	321147.1	319939.4	319239.0	326527.2	320488.9	322662.7	319625.4
7°	272575.0	267587.3	263571.9	267690.0	267955.7	265848.3	275310.3	274211.4	270256.3	269338.4
8°	225832.5	220856.9	217457.4	220524.8	222529.5	219220.5	223670.8	226593.3	223501.7	223779.5
9°	182145.4	181269.8	176541.8	180551.3	182731.1	179186.6	184113.9	185170.6	182278.2	183685.1
10°	149556.7	148536.2	144762.2	146386.5	149997.5	145770.6	150498.6	150842.8	148536.2	149194.4
12.5°	92422.2	92011.6	91909.0	92144.5	92096.2	92844.9	94052.6	92675.9	92494.7	90218.3
15°	59736.9	60346.8	59718.8	60926.5	61101.6	61808.1	61071.4	59960.3	57840.9	56790.2
17.5°	37280.5	38059.4	39134.2	40903.5	42672.7	42878.0	41899.8	40595.5	39569.0	38445.9
20°	21448.0	21828.5	21665.4	23784.9	28361.9	29605.8	28343.8	26973.1	25735.2	24600.0
22.5°	13326.5	13187.7	13441.3	14153.8	15645.2	19491.6	18459.1	17088.4	16188.7	15252.8
25°	8169.8	8320.8	8224.2	8616.7	9286.9	10917.2	11152.7	10561.0	10102.1	9619.0
27.5°	5259.4	5259.4	5301.6	5519.0	5977.9	5923.6	7179.5	6720.6	6473.1	6237.6
30°	3653.2	3665.2	3665.2	3792.1	3894.7	3713.6	4039.6	4631.4	4516.6	4335.5
32.5°	2711.2	2747.4	2777.6	2844.0	2759.5	2566.3	2644.8	3333.1	3266.7	3200.3
35°	2065.1	2095.3	2167.8	2204.0	2083.2	1962.4	1890.0	2451.6	2481.7	2463.6
37.5°	1503.5	1521.7	1654.5	1793.4	1654.5	1545.8	1503.5	1884.0	2028.9	2010.8
40°	1153.3	1159.4	1183.5	1340.5	1340.5	1256.0	1268.0	1406.9	1660.5	1660.5
42.5°	990.3	990.3	1014.4	990.3	996.3	1086.9	1117.1	1135.2	1406.9	1406.9
45°	857.4	857.4	869.5	809.1	748.7	935.9	960.1	966.1	1183.5	1213.7
47.5°	718.6	718.6	742.7	664.2	634.0	742.7	809.1	827.2	1020.5	1044.6
50°	531.4	537.4	609.9	543.4	561.6	573.6	700.4	712.5	863.5	917.8
52.5°	356.3	356.3	368.3	422.7	489.1	471.0	567.6	609.9	688.4	760.8
55°	289.8	289.8	283.8	271.7	362.3	392.5	416.6	507.2	561.6	652.1
57.5°	199.3	211.3	193.2	223.4	235.5	295.9	314.0	398.5	428.7	549.5
60°	24.2	30.2	42.3	163.0	157.0	199.3	235.5	314.0	350.2	422.7
62.5°	6.0	6.0	12.1	30.2	108.7	132.8	187.2	217.4	253.6	326.1
65°	0.0	0.0	6.0	12.1	24.2	72.5	96.6	126.8	181.1	229.5
67.5°	0.0	0.0	6.0	12.1	12.1	30.2	48.3	78.5	96.6	169.1
70°	0.0	0.0	6.0	12.1	12.1	24.2	30.2	36.2	66.4	90.6
72.5°	0.0	0.0	6.0	12.1	18.1	24.2	30.2	30.2	30.2	60.4
75°	0.0	0.0	6.0	12.1	18.1	24.2	30.2	30.2	24.2	24.2
77.5°	0.0	0.0	6.0	12.1	24.2	30.2	36.2	30.2	18.1	18.1
80°	0.0	0.0	6.0	18.1	30.2	42.3	48.3	36.2	18.1	12.1
82.5°	0.0	0.0	12.1	24.2	36.2	48.3	66.4	54.3	24.2	12.1
85°	0.0	0.0	6.0	18.1	36.2	48.3	96.6	66.4	30.2	6.0
87.5°	0.0	0.0	0.0	6.0	6.0	12.1	36.2	24.2	12.1	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°
550699.2	0°	550699.2	550699.2	550699.2	550699.2	550699.2	550699.2	550699.2	550699.2
541871.2	1°	545657.2	546037.6	544793.7	546719.9	546043.6	542082.5	540772.2	539220.3
520392.9	2°	518798.8	520737.1	520833.7	522971.3	522941.1	518321.8	516890.7	519529.4
482653.5	3°	481192.3	483450.6	481415.7	485213.8	484072.5	478469.0	477013.8	480008.8
434914.7	4°	433616.5	433187.8	432487.3	430325.6	432988.5	429166.3	426286.0	430349.8
379561.6	5°	378800.8	377846.7	376482.1	375842.0	377822.6	375377.1	369453.5	375389.1
325120.3	6°	325518.8	321412.8	321213.5	320857.2	321056.5	314209.1	314619.7	319039.7
266180.4	7°	268994.3	269749.1	268209.3	270678.9	268795.0	264157.6	262370.2	267025.8
224999.2	8°	223429.2	222475.2	221297.7	224987.1	221720.4	218677.1	216593.9	220271.2
183914.6	9°	183570.4	181922.0	180726.4	180539.2	181046.4	175334.2	176493.5	179277.2
149556.7	10°	149611.0	146905.8	147564.0	147739.1	147183.6	143439.9	143476.1	144436.2
91727.8	12.5°	91401.8	90073.3	90405.5	90586.6	91715.8	90399.4	88539.6	87199.1
57834.9	15°	57448.4	56494.4	58444.7	59755.0	59489.3	58317.9	57442.4	56228.7
38445.9	17.5°	38089.6	39339.5	39345.6	40541.2	40661.9	39490.5	38814.2	37721.3
25004.6	20°	24914.0	25433.3	26514.2	27359.5	27848.6	26955.0	26145.8	25397.1
15590.9	22.5°	15590.9	16496.6	17172.9	18271.9	18718.7	18066.6	17493.0	16883.1
9733.7	25°	9570.7	10216.8	10778.4	11732.4	12342.3	12028.3	11503.0	11074.2
6285.9	27.5°	6382.5	6654.2	6932.0	7590.1	8224.2	8049.1	7837.7	7578.1
4432.1	30°	4498.5	4522.7	4818.6	5186.9	5609.6	5718.3	5621.7	5488.8
3254.6	32.5°	3315.0	3411.6	3550.5	3780.0	4063.8	4323.4	4275.1	4214.7
2487.8	35°	2560.2	2705.2	2819.9	2995.0	3146.0	3393.5	3435.8	3417.7
2047.0	37.5°	2089.3	2216.1	2330.8	2433.4	2560.2	2729.3	2862.2	2868.2
1690.7	40°	1733.0	1847.7	1998.7	2077.2	2167.8	2294.6	2457.6	2469.7
1431.1	42.5°	1461.3	1570.0	1720.9	1817.5	1884.0	2004.7	2167.8	2191.9
1225.8	45°	1256.0	1322.4	1479.4	1594.1	1660.5	1739.0	1914.1	1938.3
1056.7	47.5°	1092.9	1159.4	1256.0	1419.0	1479.4	1551.8	1690.7	1733.0
935.9	50°	960.1	1026.5	1111.0	1256.0	1346.5	1406.9	1521.7	1582.0
815.2	52.5°	851.4	917.8	1008.4	1123.1	1225.8	1280.1	1388.8	1467.3
664.2	55°	712.5	827.2	893.7	996.3	1135.2	1183.5	1268.0	1370.7
579.7	57.5°	621.9	718.6	815.2	899.7	1038.6	1099.0	1183.5	1280.1
458.9	60°	525.3	615.9	730.6	803.1	935.9	1014.4	1105.0	1195.6
350.2	62.5°	416.6	537.4	615.9	718.6	845.4	948.0	1020.5	1111.0
271.7	65°	308.0	440.8	531.4	640.1	760.8	869.5	929.9	1026.5
193.2	67.5°	223.4	344.2	452.9	555.5	670.3	778.9	839.3	923.9
120.8	70°	175.1	253.6	374.4	464.9	585.7	676.3	742.7	797.1
78.5	72.5°	102.7	193.2	301.9	404.6	513.3	573.6	621.9	670.3
36.2	75°	66.4	151.0	247.6	338.1	416.6	471.0	513.3	555.5
18.1	77.5°	42.3	108.7	199.3	283.8	320.0	386.5	422.7	446.8
12.1	80°	24.2	84.5	175.1	229.5	259.6	301.9	338.1	368.3
12.1	82.5°	18.1	72.5	144.9	193.2	193.2	241.5	259.6	259.6
6.0	85°	12.1	60.4	114.7	181.1	144.9	181.1	169.1	169.1
6.0	87.5°	12.1	42.3	54.3	78.5	66.4	78.5	78.5	90.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
550699.2
533073.3
508352.5
466706.4
415640.5
359749.9
306226.4
254363.5
209770.6
170582.0
137902.7
86383.9
55606.7
37449.5
25137.4
16557.0
10826.7
7427.1
5398.2
4166.4
3357.3
2825.9
2451.6
2173.8
1932.3
1739.0
1588.1
1467.3
1376.7
1286.2
1219.7
1153.3
1044.6
929.9
815.2
682.3
555.5
434.8
332.1
241.5
163.0
90.6
0.0

(END OF REPORT)