

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: P638576

Luminaire Tested: **EPH-VN-03-E-740-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638576
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-03-E-740-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (48) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26824.5 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

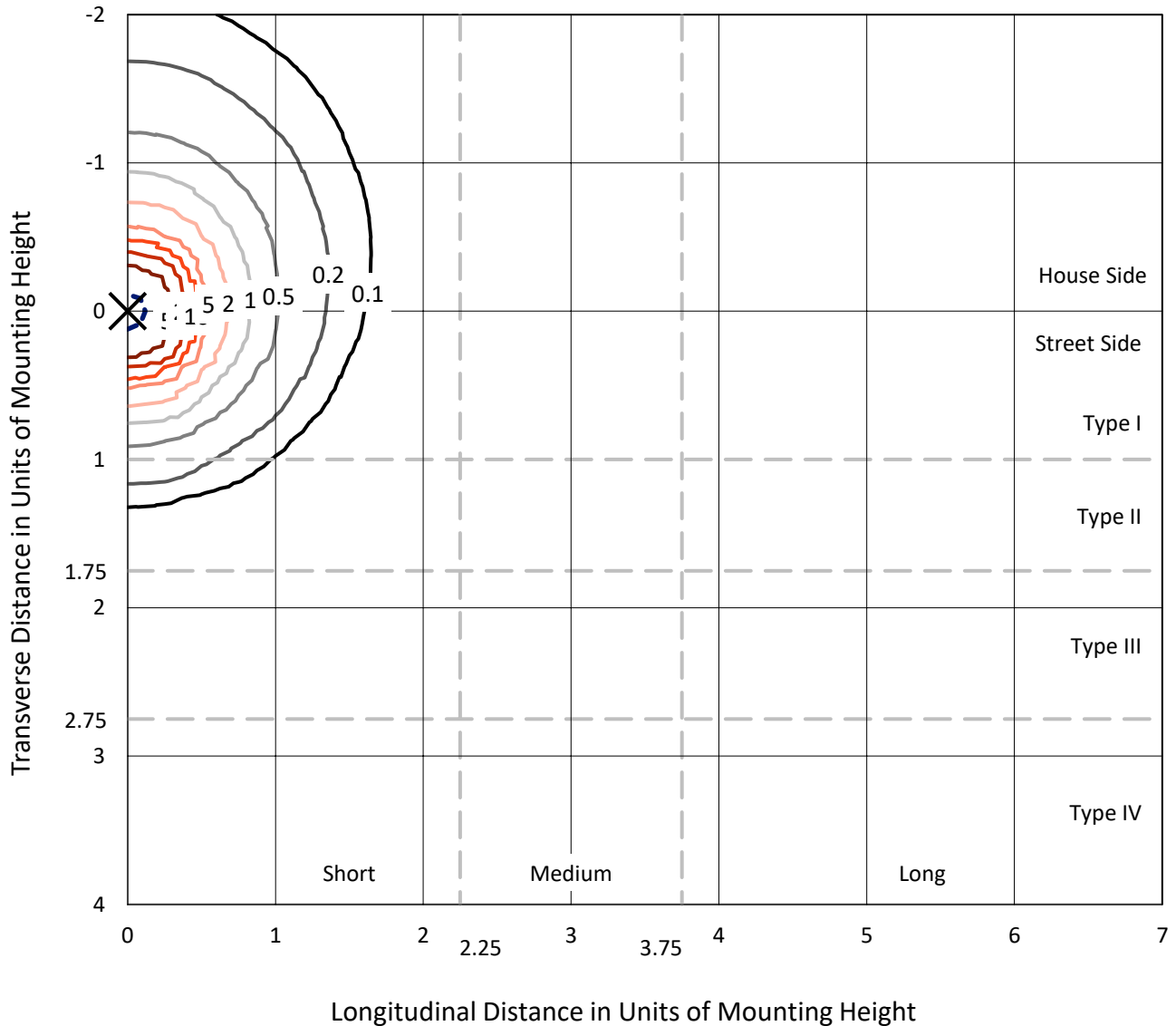
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

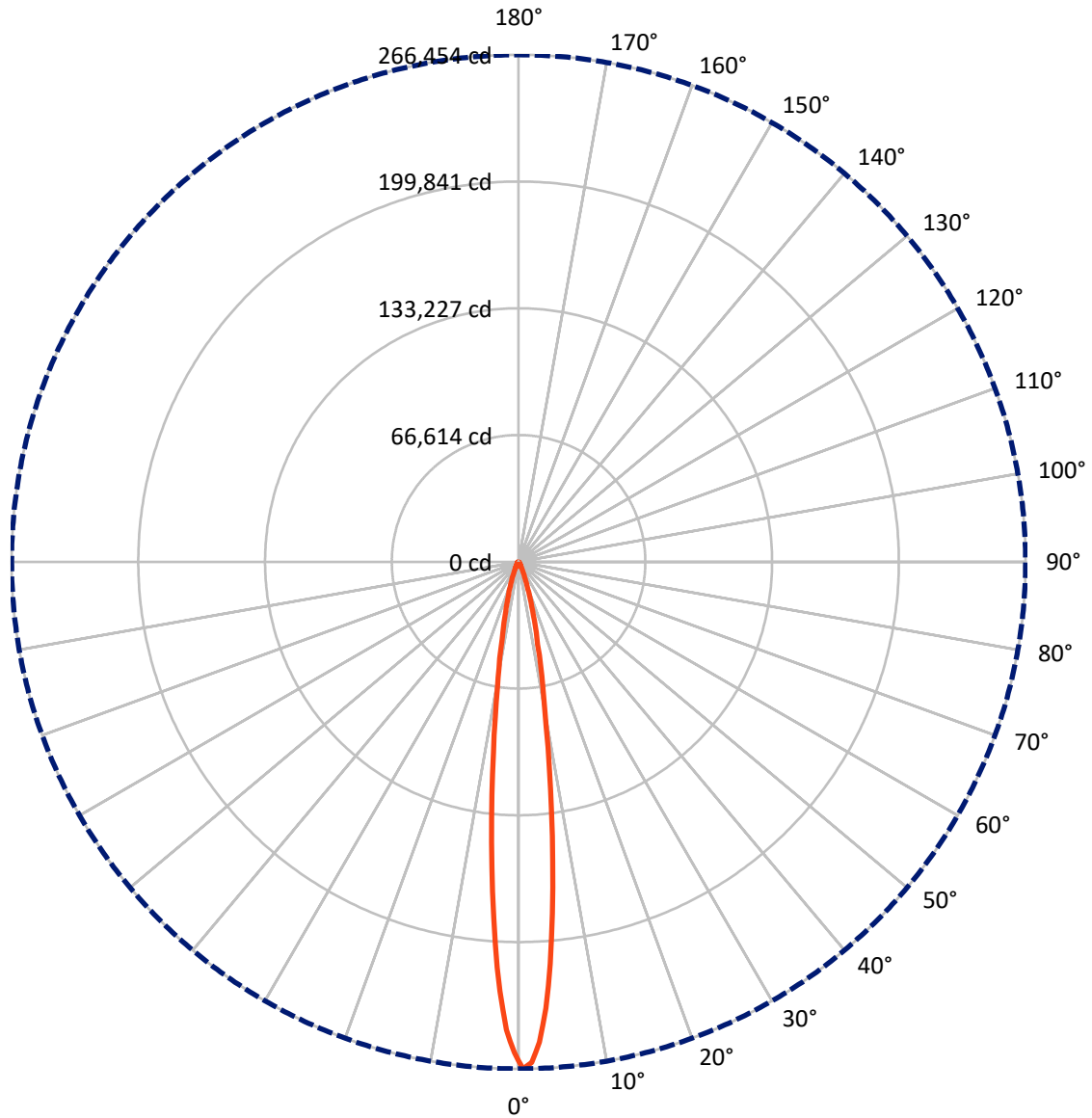
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 666.1 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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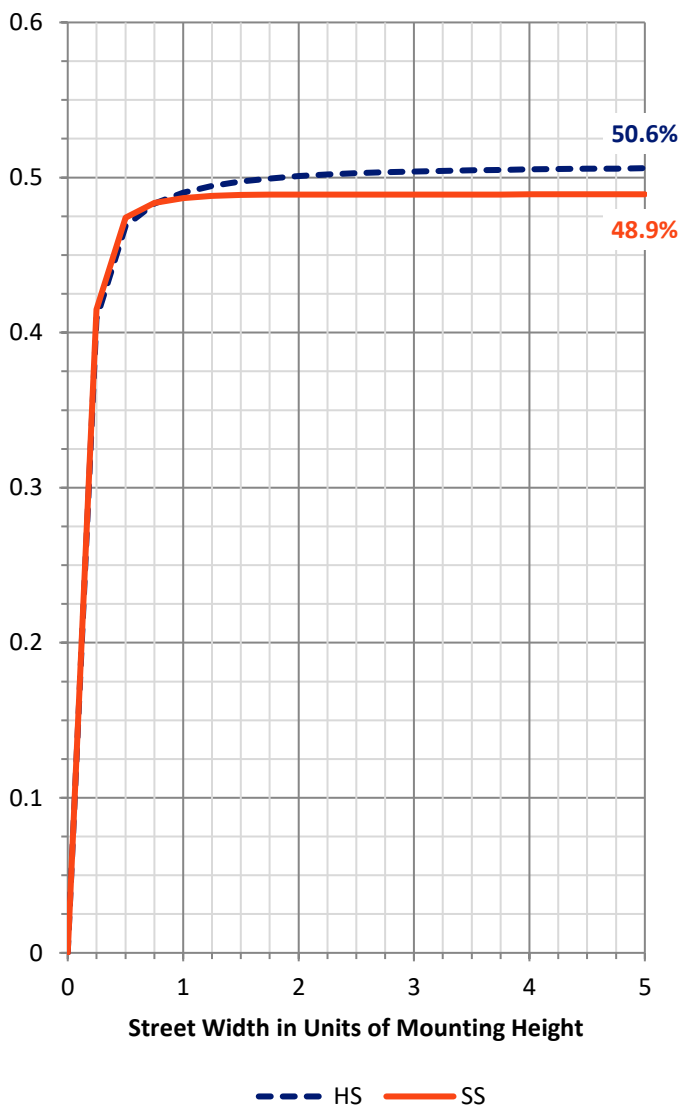
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13739.0	0.0	13739.0
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	13085.5	0.0	13085.5
	% Fixture	48.8	0.0	48.8
Total	Lumens	26824.5	0.0	26824.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13541.8	50.5
10°-20°	8669.4	32.3
20°-30°	2605.9	9.7
30°-40°	848.5	3.2
40°-50°	493.7	1.8
50°-60°	327.9	1.2
60°-70°	197.4	0.7
70°-80°	101.5	0.4
80°-90°	38.5	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°	26824.5	100.0
0°-180°	26824.5	100.0

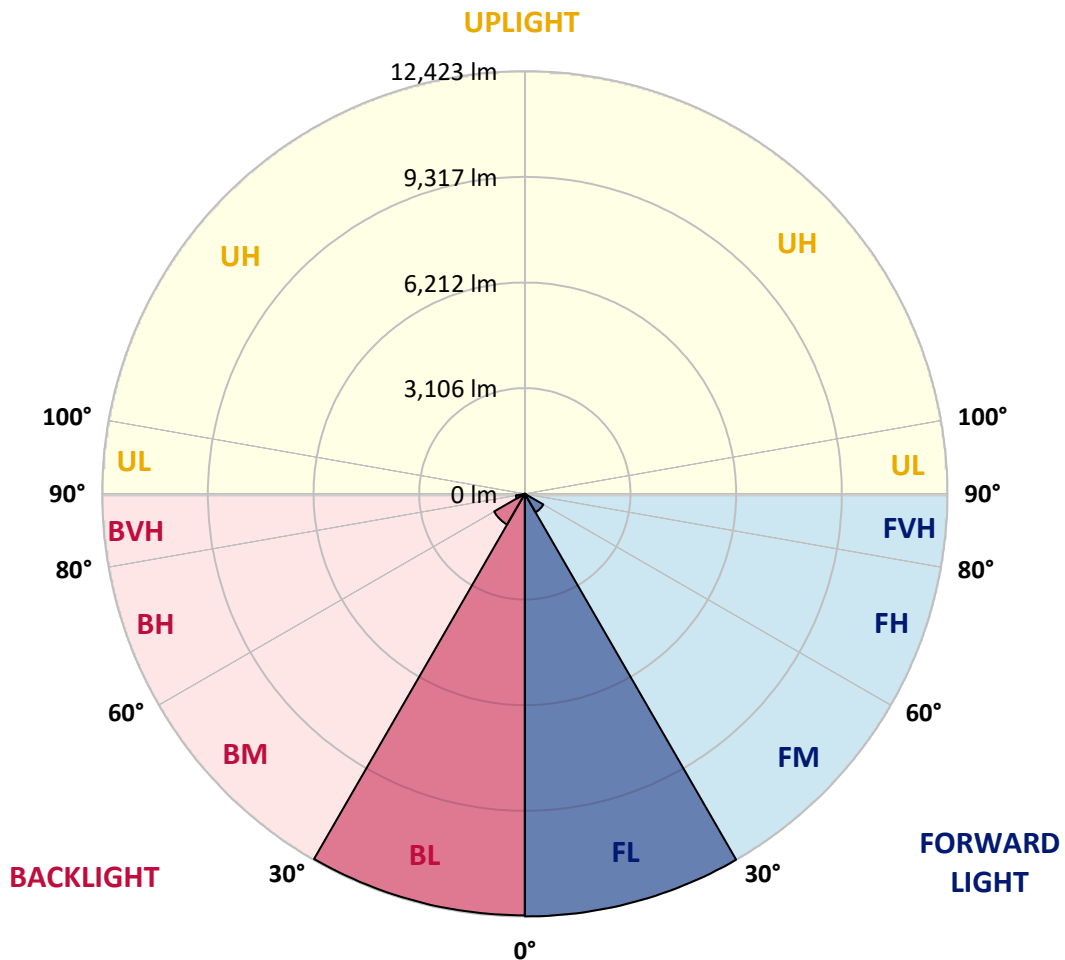


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12423.3	46.3			
FM (30°-60°)	626.9	2.3			
FH (60°-80°)	29.5	0.1			G0/660
FVH (80°-90°)	5.8	0.0			G0/10
BL (0°-30°)	12393.8	46.2	B5		
BM (30°-60°)	1043.1	3.9	B2/2500		
BH (60°-80°)	269.3	1.0	B1/500		G0/660
BVH (80°-90°)	32.7	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°	266454.3	266454.3	266454.3	266454.3	266454.3	266454.3	266454.3	266454.3	266454.3	266454.3
1°	263263.9	262460.4	260386.1	261861.5	263158.7	262781.8	262755.5	262615.3	262419.5	263956.3
2°	252740.2	252220.2	249152.5	250417.5	252261.1	250917.1	251758.5	251019.4	251034.0	252868.8
3°	235000.2	235283.5	230389.8	232689.2	235251.4	231993.8	233004.7	234903.7	232914.1	232315.2
4°	211942.8	209482.8	206809.5	209146.8	209810.0	207913.9	209777.8	212103.5	209339.6	209462.3
5°	185619.0	183801.8	180637.7	182080.9	180436.1	181035.0	183828.1	184786.3	182858.1	180430.2
6°	158553.2	157261.8	153305.9	155386.1	154801.8	154462.9	157989.3	155067.7	156119.5	154649.9
7°	131884.7	129471.4	127528.5	129521.1	129649.6	128630.0	133208.1	132676.4	130762.8	130318.7
8°	109268.4	106861.0	105216.1	106700.3	107670.3	106069.3	108222.5	109636.5	108140.7	108275.1
9°	88130.5	87706.9	85419.3	87359.2	88413.9	86698.9	89083.0	89594.3	88194.8	88875.5
10°	72362.6	71868.8	70042.8	70828.7	72575.9	70530.7	72818.3	72984.9	71868.8	72187.3
12.5°	44718.2	44519.6	44469.9	44583.9	44560.5	44922.8	45507.1	44841.0	44753.3	43651.9
15°	28903.5	29198.6	28894.8	29479.1	29563.8	29905.7	29549.2	29011.6	27986.2	27477.8
17.5°	18038.1	18414.9	18935.0	19791.0	20647.1	20746.4	20273.1	19642.0	19145.3	18601.9
20°	10377.6	10561.6	10482.8	11508.2	13722.8	14324.7	13714.1	13050.9	12451.9	11902.7
22.5°	6448.0	6380.8	6503.5	6848.3	7569.9	9431.0	8931.4	8268.2	7832.9	7380.0
25°	3952.9	4026.0	3979.2	4169.1	4493.4	5282.3	5396.2	5109.9	4887.9	4654.1
27.5°	2544.7	2544.7	2565.2	2670.4	2892.4	2866.1	3473.8	3251.8	3132.0	3018.0
30°	1767.6	1773.4	1773.4	1834.8	1884.4	1796.8	1954.6	2240.9	2185.4	2097.7
32.5°	1311.8	1329.3	1343.9	1376.1	1335.2	1241.7	1279.7	1612.7	1580.6	1548.5
35°	999.2	1013.8	1048.9	1066.4	1008.0	949.5	914.5	1186.2	1200.8	1192.0
37.5°	727.5	736.2	800.5	867.7	800.5	747.9	727.5	911.5	981.7	972.9
40°	558.0	561.0	572.6	648.6	648.6	607.7	613.5	680.7	803.4	803.4
42.5°	479.1	479.1	490.8	479.1	482.1	525.9	540.5	549.3	680.7	680.7
45°	414.9	414.9	420.7	391.5	362.3	452.9	464.5	467.5	572.6	587.2
47.5°	347.7	347.7	359.4	321.4	306.8	359.4	391.5	400.3	493.8	505.4
50°	257.1	260.0	295.1	262.9	271.7	277.6	338.9	344.8	417.8	444.1
52.5°	172.4	172.4	178.2	204.5	236.7	227.9	274.6	295.1	333.1	368.1
55°	140.2	140.2	137.3	131.5	175.3	189.9	201.6	245.4	271.7	315.5
57.5°	96.4	102.3	93.5	108.1	113.9	143.2	151.9	192.8	207.4	265.9
60°	11.7	14.6	20.5	78.9	76.0	96.4	113.9	151.9	169.5	204.5
62.5°	2.9	2.9	5.8	14.6	52.6	64.3	90.6	105.2	122.7	157.8
65°	0.0	0.0	2.9	5.8	11.7	35.1	46.7	61.4	87.6	111.0
67.5°	0.0	0.0	2.9	5.8	5.8	14.6	23.4	38.0	46.7	81.8
70°	0.0	0.0	2.9	5.8	5.8	11.7	14.6	17.5	32.1	43.8
72.5°	0.0	0.0	2.9	5.8	8.8	11.7	14.6	14.6	14.6	29.2
75°	0.0	0.0	2.9	5.8	8.8	11.7	14.6	14.6	11.7	11.7
77.5°	0.0	0.0	2.9	5.8	11.7	14.6	17.5	14.6	8.8	8.8
80°	0.0	0.0	2.9	8.8	14.6	20.5	23.4	17.5	8.8	5.8
82.5°	0.0	0.0	5.8	11.7	17.5	23.4	32.1	26.3	11.7	5.8
85°	0.0	0.0	2.9	8.8	17.5	23.4	46.7	32.1	14.6	2.9
87.5°	0.0	0.0	0.0	2.9	2.9	5.8	17.5	11.7	5.8	2.9
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°
266454.3	0°	266454.3	266454.3	266454.3	266454.3	266454.3	266454.3	266454.3	266454.3
262182.9	1°	264014.7	264198.8	263596.9	264528.9	264201.7	262285.1	261651.1	260900.3
251790.7	2°	251019.4	251957.2	252004.0	253038.2	253023.6	250788.6	250096.1	251372.9
233530.6	3°	232823.5	233916.2	232931.6	234769.3	234217.2	231505.9	230801.8	232250.9
210432.3	4°	209804.1	209596.7	209257.8	208211.9	209500.3	207650.9	206257.3	208223.5
183649.8	5°	183281.7	182820.1	182159.8	181850.1	182808.4	181625.2	178759.1	181631.0
157308.6	6°	157501.4	155514.7	155418.3	155245.9	155342.3	152029.2	152227.9	154366.5
128790.7	7°	130152.1	130517.3	129772.3	130967.3	130055.7	127811.9	126947.1	129199.7
108865.2	8°	108105.6	107644.0	107074.3	108859.4	107278.8	105806.3	104798.4	106577.6
88986.6	9°	88820.0	88022.4	87444.0	87353.4	87598.8	84835.0	85395.9	86742.8
72362.6	10°	72388.9	71080.0	71398.4	71483.2	71214.4	69403.0	69420.5	69885.0
44382.3	12.5°	44224.5	43581.7	43742.4	43830.1	44376.4	43739.5	42839.6	42191.1
27983.2	15°	27796.3	27334.6	28278.3	28912.3	28783.8	28217.0	27793.3	27206.1
18601.9	17.5°	18429.6	19034.3	19037.2	19615.7	19674.2	19107.4	18780.1	18251.3
12098.4	20°	12054.6	12305.8	12828.8	13237.8	13474.5	13042.1	12650.6	12288.3
7543.6	22.5°	7543.6	7981.9	8309.1	8840.8	9057.0	8741.5	8463.9	8168.8
4709.6	25°	4630.8	4943.4	5215.1	5676.7	5971.8	5819.9	5565.7	5358.2
3041.4	27.5°	3088.1	3219.6	3354.0	3672.5	3979.2	3894.5	3792.3	3666.6
2144.5	30°	2176.6	2188.3	2331.4	2509.7	2714.2	2766.8	2720.0	2655.7
1574.8	32.5°	1604.0	1650.7	1717.9	1828.9	1966.2	2091.9	2068.5	2039.3
1203.7	35°	1238.8	1308.9	1364.4	1449.1	1522.2	1641.9	1662.4	1653.6
990.4	37.5°	1010.9	1072.2	1127.7	1177.4	1238.8	1320.6	1384.8	1387.8
818.1	40°	838.5	894.0	967.1	1005.0	1048.9	1110.2	1189.1	1194.9
692.4	42.5°	707.0	759.6	832.7	879.4	911.5	970.0	1048.9	1060.5
593.1	45°	607.7	639.8	715.8	771.3	803.4	841.4	926.2	937.8
511.3	47.5°	528.8	561.0	607.7	686.6	715.8	750.9	818.1	838.5
452.9	50°	464.5	496.7	537.6	607.7	651.5	680.7	736.2	765.5
394.4	52.5°	411.9	444.1	487.9	543.4	593.1	619.4	672.0	710.0
321.4	55°	344.8	400.3	432.4	482.1	549.3	572.6	613.5	663.2
280.5	57.5°	300.9	347.7	394.4	435.3	502.5	531.7	572.6	619.4
222.0	60°	254.2	298.0	353.5	388.6	452.9	490.8	534.7	578.5
169.5	62.5°	201.6	260.0	298.0	347.7	409.0	458.7	493.8	537.6
131.5	65°	149.0	213.3	257.1	309.7	368.1	420.7	449.9	496.7
93.5	67.5°	108.1	166.5	219.1	268.8	324.3	376.9	406.1	447.0
58.4	70°	84.7	122.7	181.1	225.0	283.4	327.2	359.4	385.7
38.0	72.5°	49.7	93.5	146.1	195.7	248.3	277.6	300.9	324.3
17.5	75°	32.1	73.0	119.8	163.6	201.6	227.9	248.3	268.8
8.8	77.5°	20.5	52.6	96.4	137.3	154.8	187.0	204.5	216.2
5.8	80°	11.7	40.9	84.7	111.0	125.6	146.1	163.6	178.2
5.8	82.5°	8.8	35.1	70.1	93.5	93.5	116.9	125.6	125.6
2.9	85°	5.8	29.2	55.5	87.6	70.1	87.6	81.8	81.8
2.9	87.5°	5.8	20.5	26.3	38.0	32.1	38.0	38.0	43.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
266454.3
257926.1
245965.0
225814.6
201106.5
174064.0
148166.8
123073.1
101496.9
82535.6
66723.9
41796.6
26905.2
18119.9
12162.7
8011.1
5238.5
3593.6
2611.9
2015.9
1624.4
1367.3
1186.2
1051.8
934.9
841.4
768.4
710.0
666.1
622.3
590.2
558.0
505.4
449.9
394.4
330.1
268.8
210.4
160.7
116.9
78.9
43.8
0.0

(END OF REPORT)