

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: P638571

Luminaire Tested: **EPH-VN-04-E-735-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638571
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-735-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34305.1 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

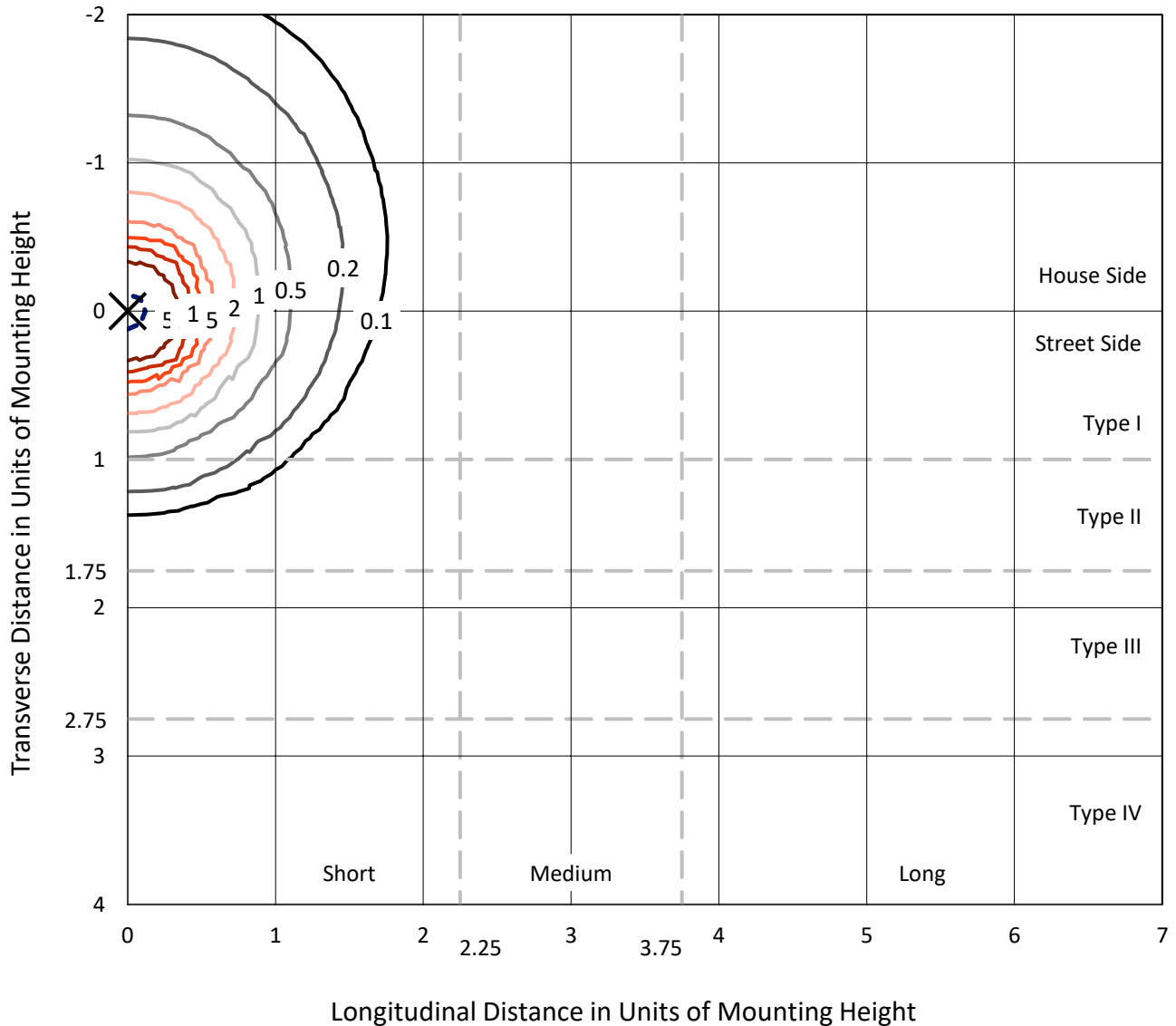
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

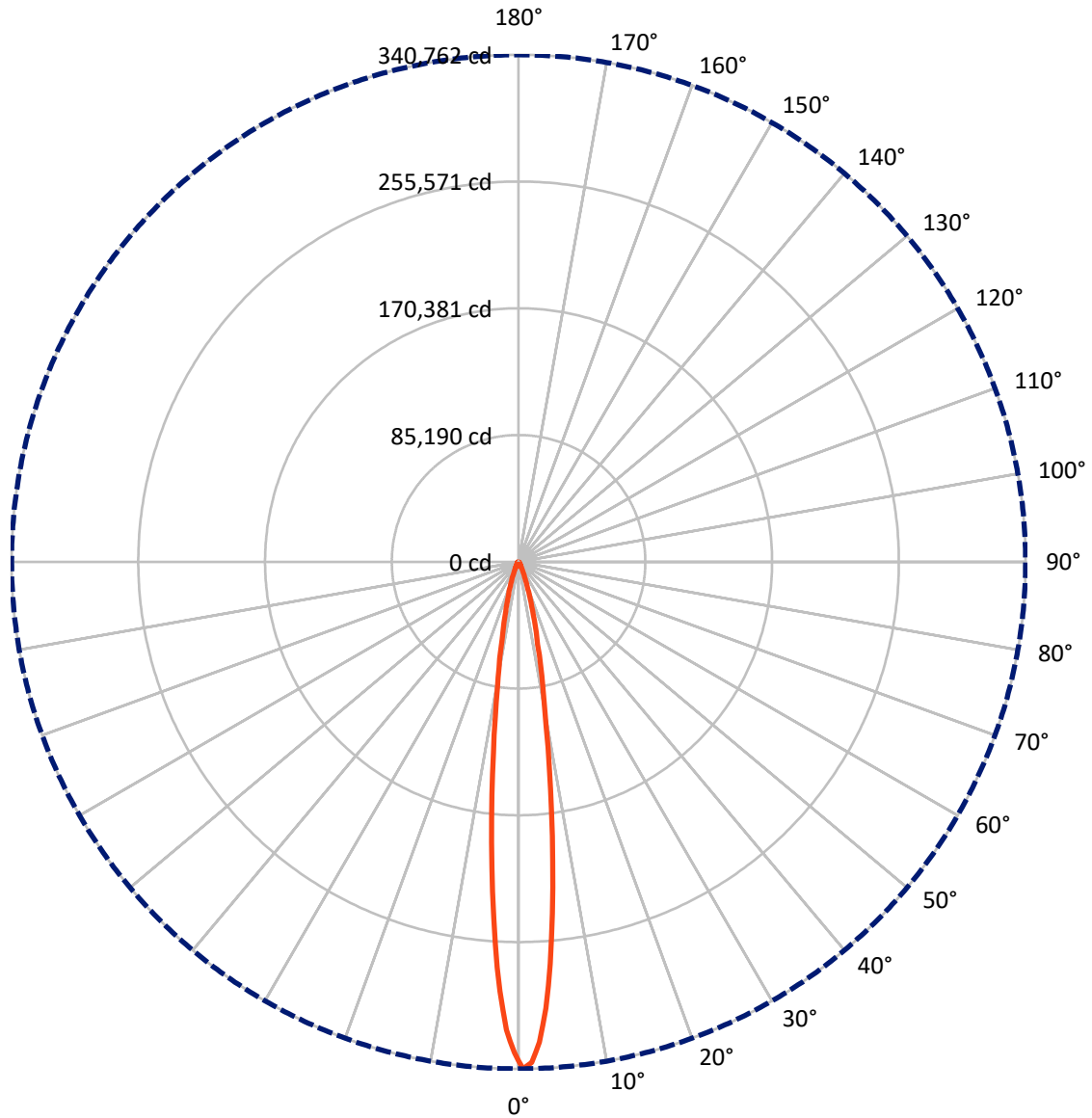
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 851.9 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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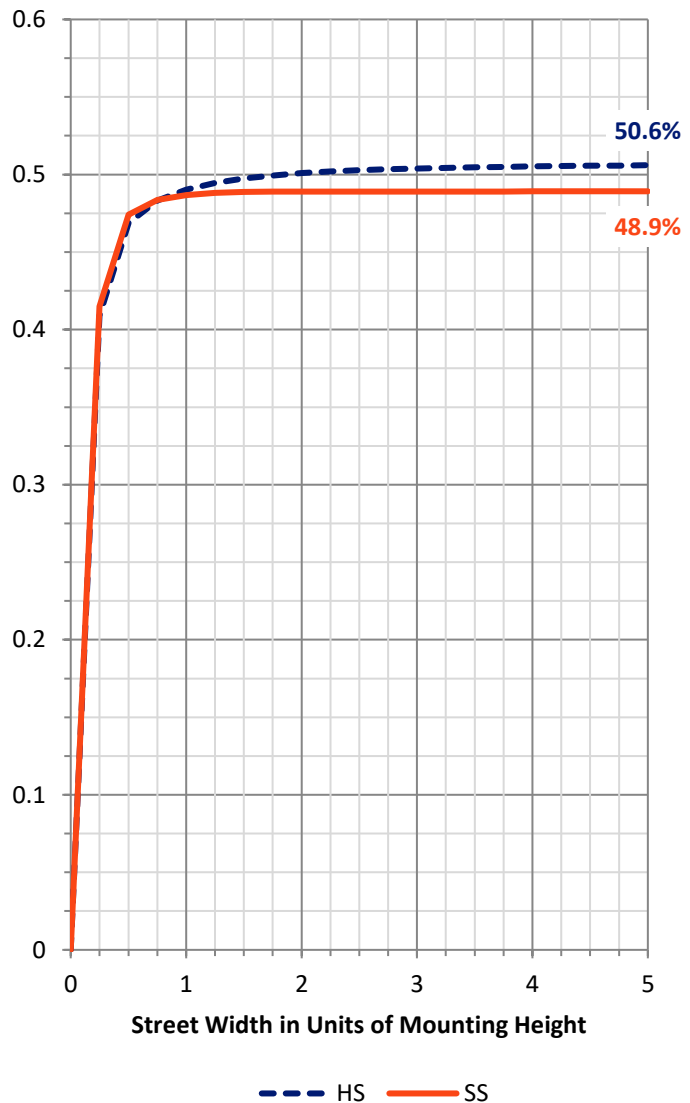
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17570.5	0.0	17570.5
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	16734.7	0.0	16734.7
	% Fixture	48.8	0.0	48.8
Total	Lumens	34305.1	0.0	34305.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17318.3	50.5
10°-20°	11087.1	32.3
20°-30°	3332.6	9.7
30°-40°	1085.1	3.2
40°-50°	631.3	1.8
50°-60°	419.3	1.2
60°-70°	252.4	0.7
70°-80°	129.7	0.4
80°-90°	49.3	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°	34305.1	100.0
0°-180°	34305.1	100.0

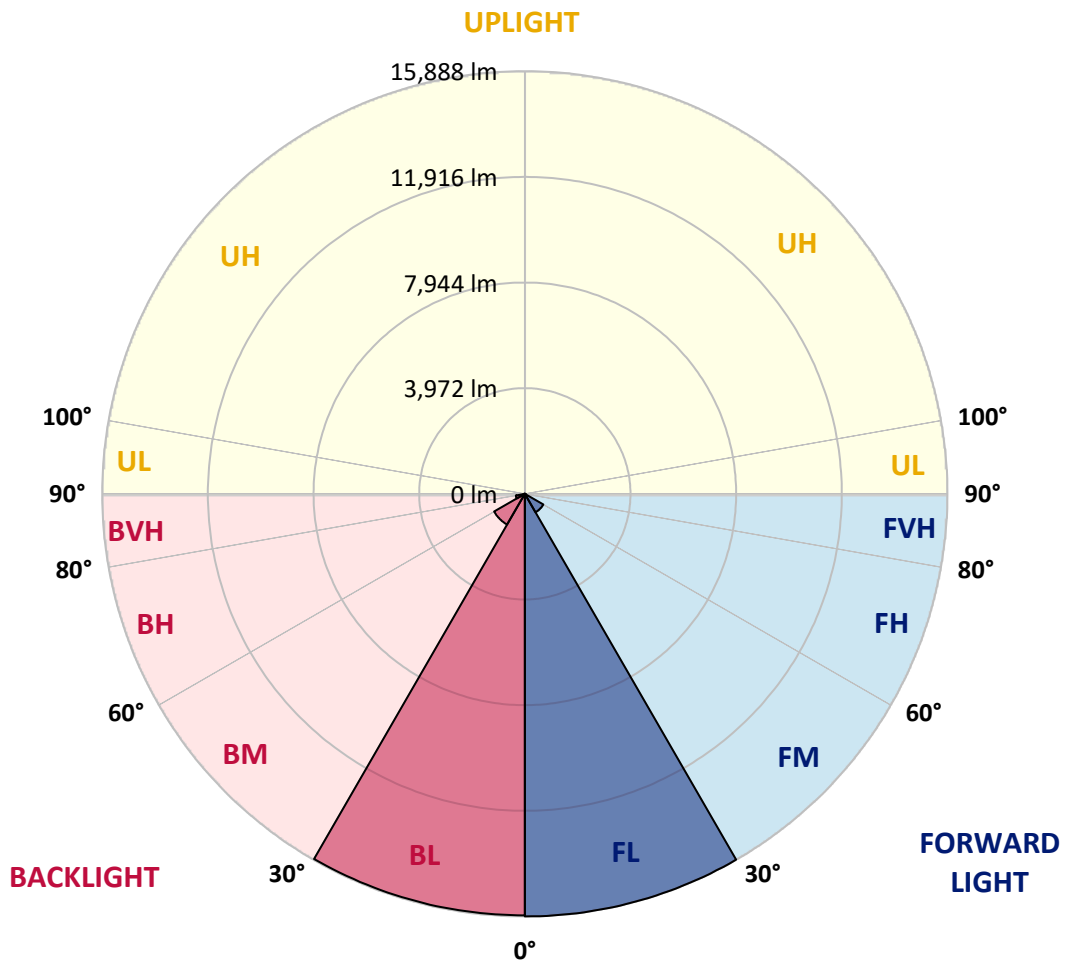


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15887.8	46.3			
FM (30°-60°)	801.7	2.3			
FH (60°-80°)	37.7	0.1			G0/660
FVH (80°-90°)	7.4	0.0			G0/10
BL (0°-30°)	15850.1	46.2	B5		
BM (30°-60°)	1334.0	3.9	B2/2500		
BH (60°-80°)	344.4	1.0	B1/500		G0/660
BVH (80°-90°)	41.9	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°	340761.5	340761.5	340761.5	340761.5	340761.5	340761.5	340761.5	340761.5	340761.5	340761.5
1°	336681.3	335653.8	333001.0	334887.9	336546.8	336064.8	336031.2	335851.9	335601.5	337566.9
2°	323222.9	322557.8	318634.6	320252.5	322610.1	320891.4	321967.5	321022.2	321040.9	323387.3
3°	300535.6	300898.0	294639.6	297580.1	300856.9	296690.9	297983.7	300412.3	297867.8	297101.9
4°	271048.1	267902.1	264483.3	267472.4	268320.6	265895.7	268279.5	271253.6	267719.0	267875.9
5°	237383.3	235059.3	231012.8	232858.6	230755.0	231521.0	235092.9	236318.5	233852.5	230747.5
6°	202769.5	201118.1	196059.0	198719.3	197972.0	197538.6	202048.4	198312.0	199657.1	197777.7
7°	168663.9	165577.6	163092.9	165641.1	165805.5	164501.5	170356.4	169676.4	167229.1	166661.2
8°	139740.6	136661.8	134558.2	136456.3	137696.8	135649.2	138402.9	140211.3	138298.3	138470.2
9°	112707.9	112166.1	109240.5	111721.5	113070.3	110877.0	113925.9	114579.8	112790.1	113660.6
10°	92542.6	91911.2	89575.9	90581.0	92815.4	90199.9	93125.5	93338.5	91911.2	92318.4
12.5°	57189.0	56934.9	56871.4	57017.1	56987.2	57450.6	58197.8	57345.9	57233.8	55825.2
15°	36964.0	37341.4	36952.8	37700.1	37808.4	38245.6	37789.7	37102.2	35790.8	35140.6
17.5°	23068.4	23550.4	24215.5	25310.2	26405.0	26532.0	25926.7	25119.7	24484.5	23789.5
20°	13271.6	13507.0	13406.1	14717.6	17549.8	18319.5	17538.6	16690.4	15924.4	15222.0
22.5°	8246.2	8160.3	8317.2	8758.1	9681.0	12061.0	11422.1	10574.0	10017.2	9438.1
25°	5055.3	5148.7	5088.9	5331.8	5746.6	6755.4	6901.1	6534.9	6251.0	5952.1
27.5°	3254.4	3254.4	3280.5	3415.1	3699.0	3665.4	4442.6	4158.6	4005.4	3859.7
30°	2260.5	2268.0	2268.0	2346.4	2410.0	2297.9	2499.6	2865.8	2794.8	2682.7
32.5°	1677.6	1700.1	1718.7	1759.8	1707.5	1588.0	1636.5	2062.5	2021.4	1980.3
35°	1277.8	1296.5	1341.4	1363.8	1289.1	1214.3	1169.5	1517.0	1535.7	1524.4
37.5°	930.4	941.6	1023.8	1109.7	1023.8	956.5	930.4	1165.8	1255.4	1244.2
40°	713.6	717.4	732.3	829.5	829.5	777.2	784.6	870.6	1027.5	1027.5
42.5°	612.8	612.8	627.7	612.8	616.5	672.5	691.2	702.4	870.6	870.6
45°	530.6	530.6	538.0	500.7	463.3	579.1	594.1	597.8	732.3	751.0
47.5°	444.6	444.6	459.6	411.0	392.3	459.6	500.7	511.9	631.4	646.4
50°	328.8	332.5	377.4	336.3	347.5	355.0	433.4	440.9	534.3	567.9
52.5°	220.4	220.4	227.9	261.5	302.6	291.4	351.2	377.4	425.9	470.8
55°	179.3	179.3	175.6	168.1	224.2	242.9	257.8	313.9	347.5	403.5
57.5°	123.3	130.8	119.6	138.2	145.7	183.1	194.3	246.6	265.3	340.0
60°	14.9	18.7	26.2	100.9	97.1	123.3	145.7	194.3	216.7	261.5
62.5°	3.7	3.7	7.5	18.7	67.3	82.2	115.8	134.5	156.9	201.8
65°	0.0	0.0	3.7	7.5	14.9	44.8	59.8	78.5	112.1	142.0
67.5°	0.0	0.0	3.7	7.5	7.5	18.7	29.9	48.6	59.8	104.6
70°	0.0	0.0	3.7	7.5	7.5	14.9	18.7	22.4	41.1	56.0
72.5°	0.0	0.0	3.7	7.5	11.2	14.9	18.7	18.7	18.7	37.4
75°	0.0	0.0	3.7	7.5	11.2	14.9	18.7	18.7	14.9	14.9
77.5°	0.0	0.0	3.7	7.5	14.9	18.7	22.4	18.7	11.2	11.2
80°	0.0	0.0	3.7	11.2	18.7	26.2	29.9	22.4	11.2	7.5
82.5°	0.0	0.0	7.5	14.9	22.4	29.9	41.1	33.6	14.9	7.5
85°	0.0	0.0	3.7	11.2	22.4	29.9	59.8	41.1	18.7	3.7
87.5°	0.0	0.0	0.0	3.7	3.7	7.5	22.4	14.9	7.5	3.7
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°
340761.5	0°	340761.5	340761.5	340761.5	340761.5	340761.5	340761.5	340761.5	340761.5
335298.9	1°	337641.6	337877.0	337107.3	338299.2	337880.7	335429.7	334618.9	333658.6
322008.6	2°	321022.2	322221.6	322281.3	323604.0	323585.3	320727.0	319841.5	321474.3
298656.2	3°	297752.0	299149.4	297890.3	300240.4	299534.3	296066.9	295166.4	297019.7
269116.4	4°	268313.1	268047.8	267614.4	266276.8	267924.5	265559.4	263777.1	266291.7
234865.0	5°	234394.2	233803.9	232959.5	232563.4	233788.9	232275.7	228610.3	232283.2
201177.8	6°	201424.4	198883.7	198760.4	198540.0	198663.3	194426.2	194680.3	197415.3
164707.0	7°	166448.2	166915.2	165962.5	167490.6	166324.9	163455.4	162349.4	165230.1
139224.9	8°	138253.5	137663.1	136934.5	139217.5	137196.1	135313.0	134023.9	136299.4
113802.6	9°	113589.6	112569.6	111829.8	111714.0	112027.8	108493.2	109210.6	110933.1
92542.6	10°	92576.3	90902.4	91309.6	91418.0	91074.2	88757.7	88780.1	89374.2
56759.3	12.5°	56557.6	55735.6	55941.1	56053.2	56751.9	55937.3	54786.5	53957.0
35787.0	15°	35547.9	34957.6	36164.4	36975.2	36810.8	36085.9	35544.2	34793.2
23789.5	17.5°	23569.1	24342.5	24346.2	25086.0	25160.8	24435.9	24017.4	23341.2
15472.3	20°	15416.3	15737.6	16406.4	16929.5	17232.2	16679.2	16178.5	15715.2
9647.3	22.5°	9647.3	10207.8	10626.3	11306.3	11582.8	11179.2	10824.3	10446.9
6023.0	25°	5922.2	6322.0	6669.4	7259.8	7637.2	7442.9	7117.8	6852.5
3889.6	27.5°	3949.4	4117.5	4289.4	4696.6	5088.9	4980.6	4849.8	4689.2
2742.5	30°	2783.6	2798.5	2981.6	3209.5	3471.1	3538.4	3478.6	3396.4
2013.9	32.5°	2051.3	2111.1	2197.0	2339.0	2514.6	2675.2	2645.4	2608.0
1539.4	35°	1584.2	1673.9	1744.9	1853.2	1946.7	2099.8	2126.0	2114.8
1266.6	37.5°	1292.8	1371.3	1442.2	1505.8	1584.2	1688.8	1771.0	1774.8
1046.2	40°	1072.3	1143.3	1236.7	1285.3	1341.4	1419.8	1520.7	1528.2
885.5	42.5°	904.2	971.5	1064.9	1124.6	1165.8	1240.5	1341.4	1356.3
758.5	45°	777.2	818.3	915.4	986.4	1027.5	1076.1	1184.4	1199.4
653.9	47.5°	676.3	717.4	777.2	878.0	915.4	960.2	1046.2	1072.3
579.1	50°	594.1	635.2	687.5	777.2	833.2	870.6	941.6	978.9
504.4	52.5°	526.8	567.9	624.0	695.0	758.5	792.1	859.4	907.9
411.0	55°	440.9	511.9	553.0	616.5	702.4	732.3	784.6	848.2
358.7	57.5°	384.8	444.6	504.4	556.7	642.7	680.0	732.3	792.1
284.0	60°	325.1	381.1	452.1	496.9	579.1	627.7	683.8	739.8
216.7	62.5°	257.8	332.5	381.1	444.6	523.1	586.6	631.4	687.5
168.1	65°	190.6	272.8	328.8	396.1	470.8	538.0	575.4	635.2
119.6	67.5°	138.2	213.0	280.2	343.7	414.7	482.0	519.4	571.7
74.7	70°	108.4	156.9	231.7	287.7	362.4	418.5	459.6	493.2
48.6	72.5°	63.5	119.6	186.8	250.3	317.6	355.0	384.8	414.7
22.4	75°	41.1	93.4	153.2	209.2	257.8	291.4	317.6	343.7
11.2	77.5°	26.2	67.3	123.3	175.6	198.0	239.1	261.5	276.5
7.5	80°	14.9	52.3	108.4	142.0	160.7	186.8	209.2	227.9
7.5	82.5°	11.2	44.8	89.7	119.6	119.6	149.5	160.7	160.7
3.7	85°	7.5	37.4	71.0	112.1	89.7	112.1	104.6	104.6
3.7	87.5°	7.5	26.2	33.6	48.6	41.1	48.6	48.6	56.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
340761.5
329855.0
314558.2
288788.4
257189.9
222606.0
189486.7
157395.0
129801.8
105552.7
85331.4
53452.6
34408.3
23173.0
15554.5
10245.2
6699.3
4595.7
3340.3
2578.1
2077.4
1748.6
1517.0
1345.1
1195.6
1076.1
982.7
907.9
851.9
795.8
754.7
713.6
646.4
575.4
504.4
422.2
343.7
269.0
205.5
149.5
100.9
56.0
0.0

(END OF REPORT)