

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: P638616

Luminaire Tested: **EPH-VN-08-D-950-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638616
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-950-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (128) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40060.9 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

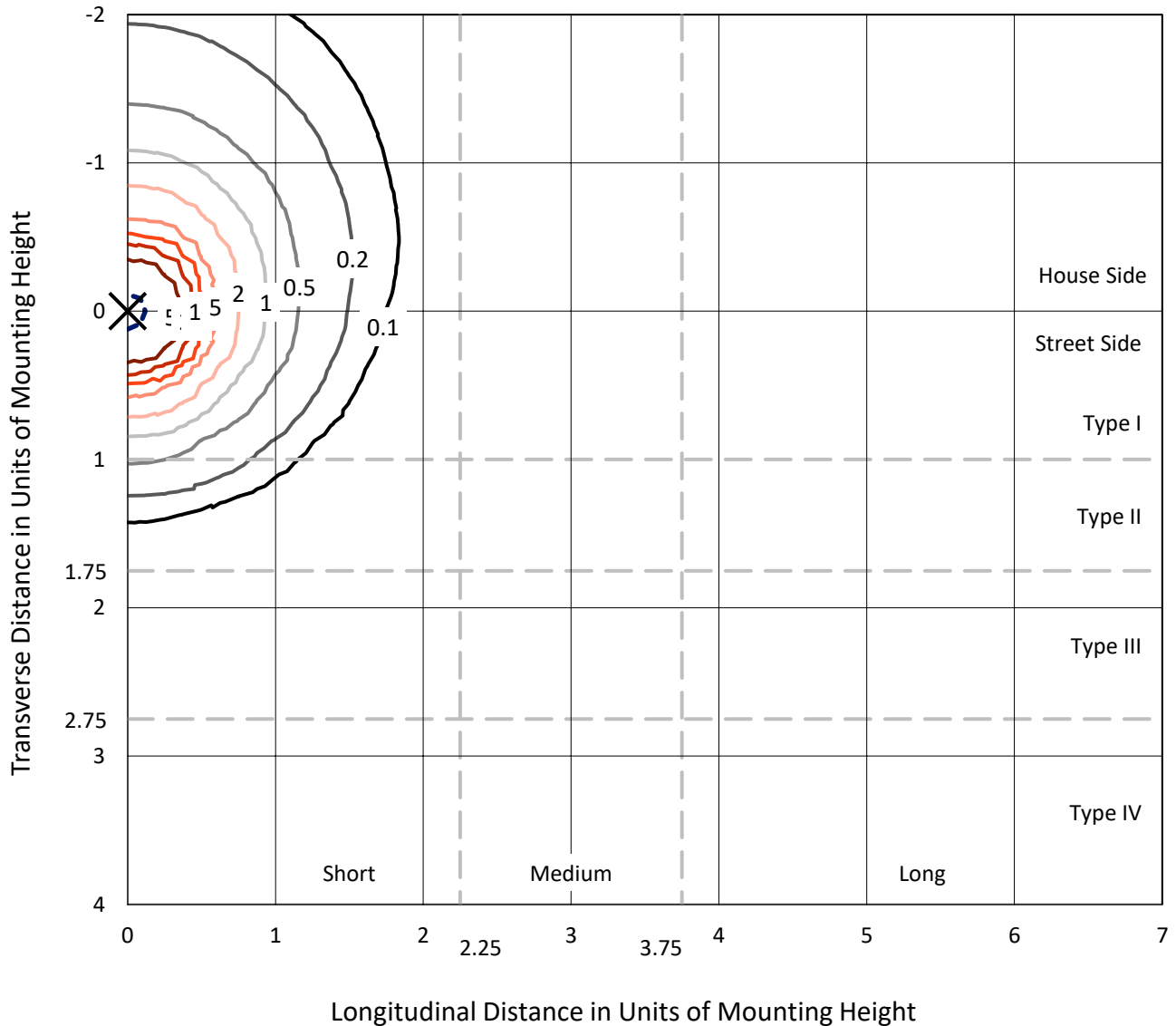
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

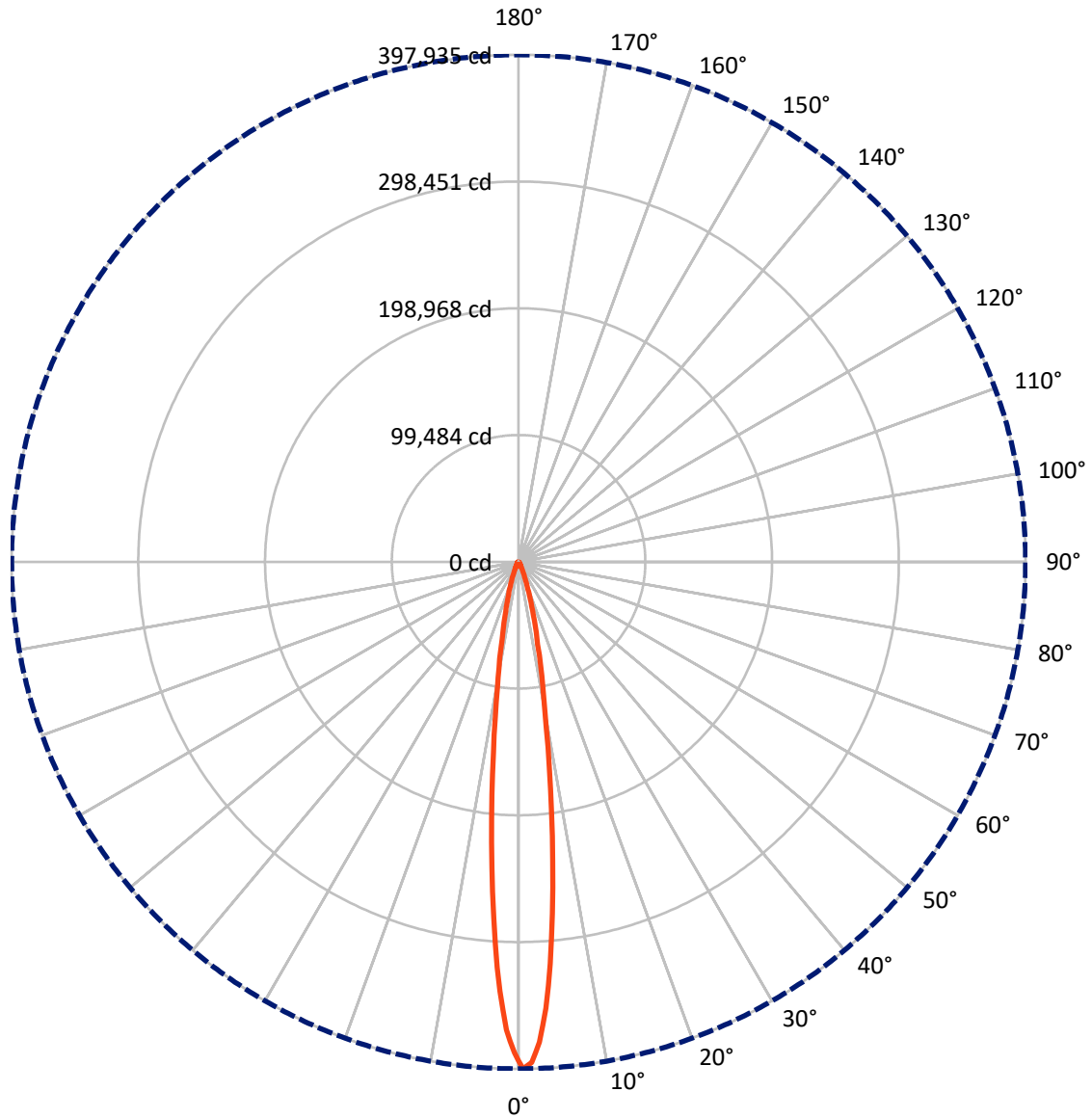
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 994.8 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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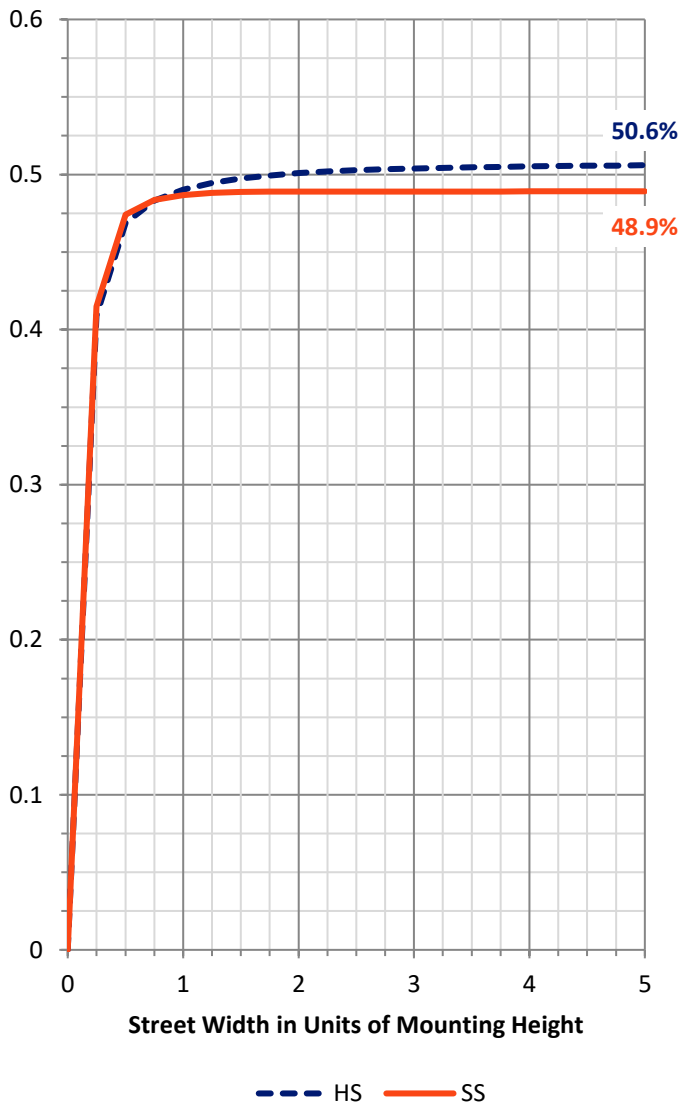
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20518.5	0.0	20518.5
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	19542.5	0.0	19542.5
	% Fixture	48.8	0.0	48.8
Total	Lumens	40060.9	0.0	40060.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20224.0	50.5
10°-20°	12947.3	32.3
20°-30°	3891.7	9.7
30°-40°	1267.1	3.2
40°-50°	737.3	1.8
50°-60°	489.7	1.2
60°-70°	294.8	0.7
70°-80°	151.5	0.4
80°-90°	57.6	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°	40060.9	100.0
0°-180°	40060.9	100.0

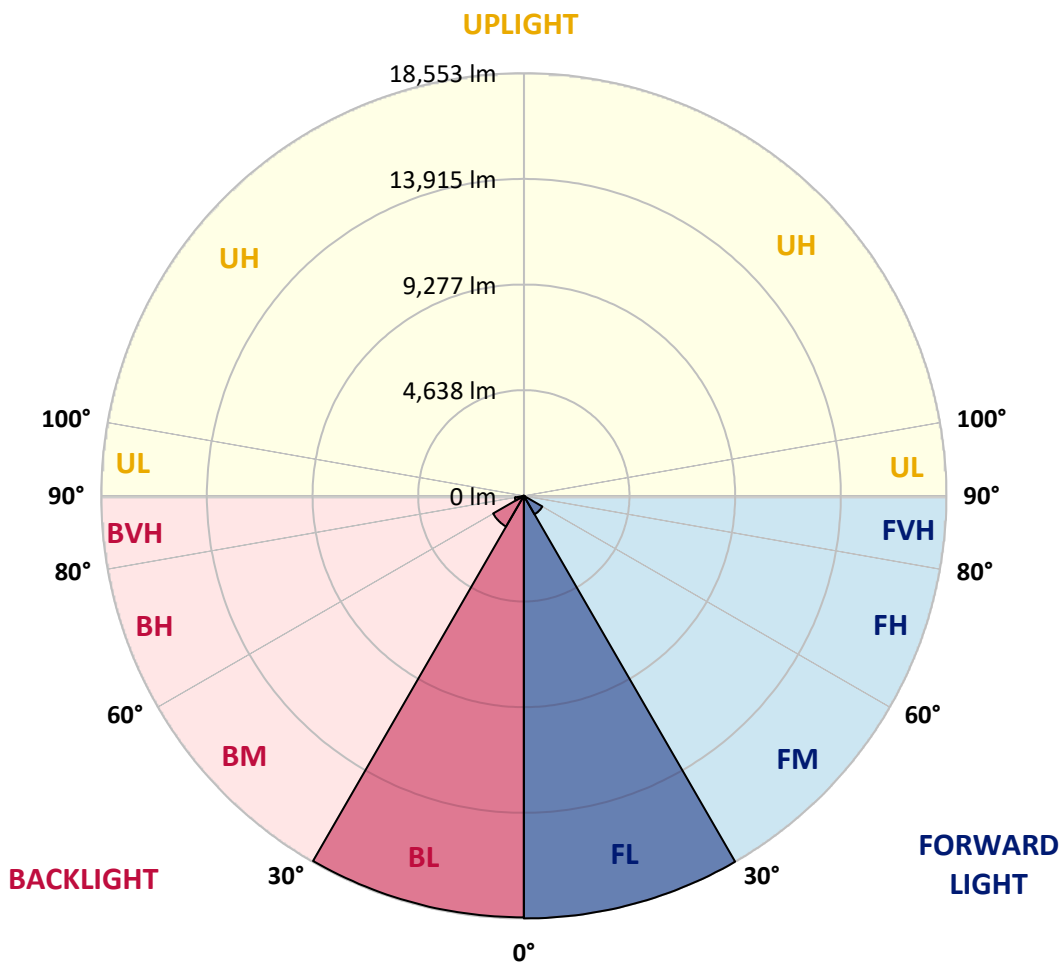


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	18553.5	46.3			
FM (30°-60°)	936.2	2.3			
FH (60°-80°)	44.1	0.1			G0/660
FVH (80°-90°)	8.7	0.0			G0/10
BL (0°-30°)	18509.5	46.2	B5		
BM (30°-60°)	1557.9	3.9	B2/2500		
BH (60°-80°)	402.2	1.0	B1/500		G0/660
BVH (80°-90°)	48.9	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°	397935.2	397935.2	397935.2	397935.2	397935.2	397935.2	397935.2	397935.2	397935.2	397935.2
1°	393170.5	391970.6	388872.7	391076.1	393013.4	392450.6	392411.3	392201.9	391909.5	394204.6
2°	377454.0	376677.3	372095.9	373985.2	376738.4	374731.3	375987.9	374884.0	374905.8	377646.0
3°	350960.2	351383.4	344074.9	347508.8	351335.4	346470.4	347980.1	350816.2	347844.8	346950.3
4°	316525.2	312851.3	308858.9	312349.5	313340.0	310508.2	313292.0	316765.2	312637.5	312820.8
5°	277212.1	274498.1	269772.7	271928.1	269471.6	270366.1	274537.4	275968.5	273088.8	269462.9
6°	236790.7	234862.1	228954.2	232060.9	231188.2	230682.1	235948.6	231585.3	233156.1	230961.3
7°	196962.7	193358.6	190457.0	193432.8	193624.8	192102.0	198939.2	198145.1	195287.2	194624.0
8°	163186.6	159591.2	157134.7	159351.2	160799.8	158408.8	161624.5	163736.3	161502.3	161703.0
9°	131618.2	130985.6	127569.1	130466.3	132041.5	129480.2	133040.7	133804.2	131714.2	132730.9
10°	108069.6	107332.2	104605.2	105778.9	108388.2	105333.9	108750.3	108999.0	107332.2	107807.8
12.5°	66784.3	66487.6	66413.4	66583.6	66548.7	67089.7	67962.4	66967.6	66836.7	65191.7
15°	43165.9	43606.6	43152.8	44025.5	44152.0	44662.5	44130.2	43327.3	41795.8	41036.6
17.5°	26938.9	27501.7	28278.4	29556.8	30835.3	30983.6	30276.8	29334.3	28592.6	27781.0
20°	15498.4	15773.2	15655.4	17186.9	20494.3	21393.1	20481.2	19490.8	18596.3	17776.0
22.5°	9629.8	9529.4	9712.7	10227.5	11305.3	14084.7	13338.5	12348.1	11697.9	11021.6
25°	5903.5	6012.6	5942.8	6226.4	6710.7	7888.8	8059.0	7631.4	7299.8	6950.7
27.5°	3800.4	3800.4	3831.0	3988.0	4319.6	4280.4	5187.9	4856.3	4677.4	4507.3
30°	2639.8	2648.5	2648.5	2740.1	2814.3	2683.4	2919.0	3346.6	3263.7	3132.8
32.5°	1959.1	1985.3	2007.1	2055.1	1994.0	1854.4	1911.1	2408.5	2360.5	2312.5
35°	1492.2	1514.1	1566.4	1592.6	1505.3	1418.1	1365.7	1771.5	1793.3	1780.2
37.5°	1086.5	1099.5	1195.5	1295.9	1195.5	1117.0	1086.5	1361.3	1466.1	1453.0
40°	833.4	837.7	855.2	968.6	968.6	907.6	916.3	1016.6	1199.9	1199.9
42.5°	715.6	715.6	733.0	715.6	719.9	785.4	807.2	820.3	1016.6	1016.6
45°	619.6	619.6	628.3	584.7	541.0	676.3	693.8	698.1	855.2	877.0
47.5°	519.2	519.2	536.7	480.0	458.1	536.7	584.7	597.8	737.4	754.8
50°	384.0	388.3	440.7	392.7	405.8	414.5	506.1	514.9	623.9	663.2
52.5°	257.4	257.4	266.2	305.4	353.4	340.3	410.1	440.7	497.4	549.8
55°	209.4	209.4	205.1	196.3	261.8	283.6	301.1	366.5	405.8	471.2
57.5°	144.0	152.7	139.6	161.4	170.2	213.8	226.9	288.0	309.8	397.1
60°	17.5	21.8	30.5	117.8	113.4	144.0	170.2	226.9	253.1	305.4
62.5°	4.4	4.4	8.7	21.8	78.5	96.0	135.3	157.1	183.3	235.6
65°	0.0	0.0	4.4	8.7	17.5	52.4	69.8	91.6	130.9	165.8
67.5°	0.0	0.0	4.4	8.7	8.7	21.8	34.9	56.7	69.8	122.2
70°	0.0	0.0	4.4	8.7	8.7	17.5	21.8	26.2	48.0	65.4
72.5°	0.0	0.0	4.4	8.7	13.1	17.5	21.8	21.8	21.8	43.6
75°	0.0	0.0	4.4	8.7	13.1	17.5	21.8	21.8	17.5	17.5
77.5°	0.0	0.0	4.4	8.7	17.5	21.8	26.2	21.8	13.1	13.1
80°	0.0	0.0	4.4	13.1	21.8	30.5	34.9	26.2	13.1	8.7
82.5°	0.0	0.0	8.7	17.5	26.2	34.9	48.0	39.3	17.5	8.7
85°	0.0	0.0	4.4	13.1	26.2	34.9	69.8	48.0	21.8	4.4
87.5°	0.0	0.0	0.0	4.4	4.4	8.7	26.2	17.5	8.7	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°
397935.2	0°	397935.2	397935.2	397935.2	397935.2	397935.2	397935.2	397935.2	397935.2
391556.1	1°	394291.9	394566.8	393667.9	395059.8	394571.1	391708.8	390762.0	389640.6
376035.9	2°	374884.0	376284.6	376354.4	377899.0	377877.2	374539.3	373505.2	375412.0
348765.4	3°	347709.5	349341.4	347871.0	350615.5	349790.8	345741.7	344690.1	346854.3
314269.4	4°	313331.3	313021.5	312515.3	310953.3	312877.5	310115.5	308034.3	310970.7
274271.2	5°	273721.4	273032.0	272045.9	271583.4	273014.6	271247.5	266967.1	271256.2
234931.9	6°	235219.9	232252.9	232108.9	231851.4	231995.4	227047.5	227344.2	230538.1
192342.0	7°	194375.3	194920.7	193808.0	195592.6	194231.3	190880.3	189588.7	192952.8
162584.4	8°	161450.0	160760.6	159909.7	162575.7	160215.2	158016.1	156510.7	159168.0
132896.7	9°	132648.0	131456.8	130592.9	130457.6	130824.1	126696.5	127534.2	129545.7
108069.6	10°	108108.9	106154.2	106629.8	106756.3	106354.9	103649.6	103675.8	104369.6
66282.5	12.5°	66046.9	65087.0	65327.0	65457.9	66273.8	65322.6	63978.7	63010.1
41791.5	15°	41512.2	40822.8	42232.2	43179.0	42987.0	42140.5	41507.9	40630.8
27781.0	17.5°	27523.6	28426.7	28431.1	29295.0	29382.3	28535.8	28047.1	27257.4
18068.3	20°	18002.9	18378.1	19159.1	19770.0	20123.4	19477.7	18893.0	18351.9
11266.0	22.5°	11266.0	11920.5	12409.2	13203.3	13526.2	13054.9	12640.4	12199.7
7033.6	25°	6915.8	7382.7	7788.4	8477.8	8918.5	8691.6	8312.0	8002.2
4542.2	27.5°	4612.0	4808.3	5009.0	5484.6	5942.8	5816.2	5663.5	5475.9
3202.6	30°	3250.6	3268.1	3481.9	3748.1	4053.5	4132.0	4062.2	3966.2
2351.8	32.5°	2395.4	2465.3	2565.6	2731.4	2936.5	3124.1	3089.2	3045.6
1797.7	35°	1850.0	1954.7	2037.7	2164.2	2273.3	2452.2	2482.7	2469.6
1479.2	37.5°	1509.7	1601.3	1684.2	1758.4	1850.0	1972.2	2068.2	2072.6
1221.7	40°	1252.3	1335.2	1444.2	1501.0	1566.4	1658.0	1775.9	1784.6
1034.1	42.5°	1055.9	1134.5	1243.5	1313.3	1361.3	1448.6	1566.4	1583.9
885.7	45°	907.6	955.6	1069.0	1151.9	1199.9	1256.6	1383.2	1400.6
763.6	47.5°	789.8	837.7	907.6	1025.4	1069.0	1121.4	1221.7	1252.3
676.3	50°	693.8	741.8	802.8	907.6	973.0	1016.6	1099.5	1143.2
589.0	52.5°	615.2	663.2	728.7	811.6	885.7	925.0	1003.6	1060.3
480.0	55°	514.9	597.8	645.8	719.9	820.3	855.2	916.3	990.5
418.9	57.5°	449.4	519.2	589.0	650.1	750.5	794.1	855.2	925.0
331.6	60°	379.6	445.1	528.0	580.3	676.3	733.0	798.5	863.9
253.1	62.5°	301.1	388.3	445.1	519.2	610.9	685.0	737.4	802.8
196.3	65°	222.5	318.5	384.0	462.5	549.8	628.3	671.9	741.8
139.6	67.5°	161.4	248.7	327.2	401.4	484.3	562.9	606.5	667.6
87.3	70°	126.5	183.3	270.5	336.0	423.2	488.7	536.7	576.0
56.7	72.5°	74.2	139.6	218.2	292.3	370.9	414.5	449.4	484.3
26.2	75°	48.0	109.1	178.9	244.3	301.1	340.3	370.9	401.4
13.1	77.5°	30.5	78.5	144.0	205.1	231.3	279.2	305.4	322.9
8.7	80°	17.5	61.1	126.5	165.8	187.6	218.2	244.3	266.2
8.7	82.5°	13.1	52.4	104.7	139.6	139.6	174.5	187.6	187.6
4.4	85°	8.7	43.6	82.9	130.9	104.7	130.9	122.2	122.2
4.4	87.5°	8.7	30.5	39.3	56.7	48.0	56.7	56.7	65.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
397935.2
385198.8
367335.5
337242.0
300341.8
259955.3
221279.2
183803.0
151580.2
123262.6
99648.5
62421.0
40181.4
27061.0
18164.3
11964.1
7823.4
5366.8
3900.8
3010.7
2426.0
2042.0
1771.5
1570.8
1396.2
1256.6
1147.5
1060.3
994.8
929.4
881.4
833.4
754.8
671.9
589.0
493.1
401.4
314.2
240.0
174.5
117.8
65.4
0.0

(END OF REPORT)