

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: P638602

Luminaire Tested: **EPH-VN-06-E-935-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638602
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-E-935-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (96) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34940.3 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

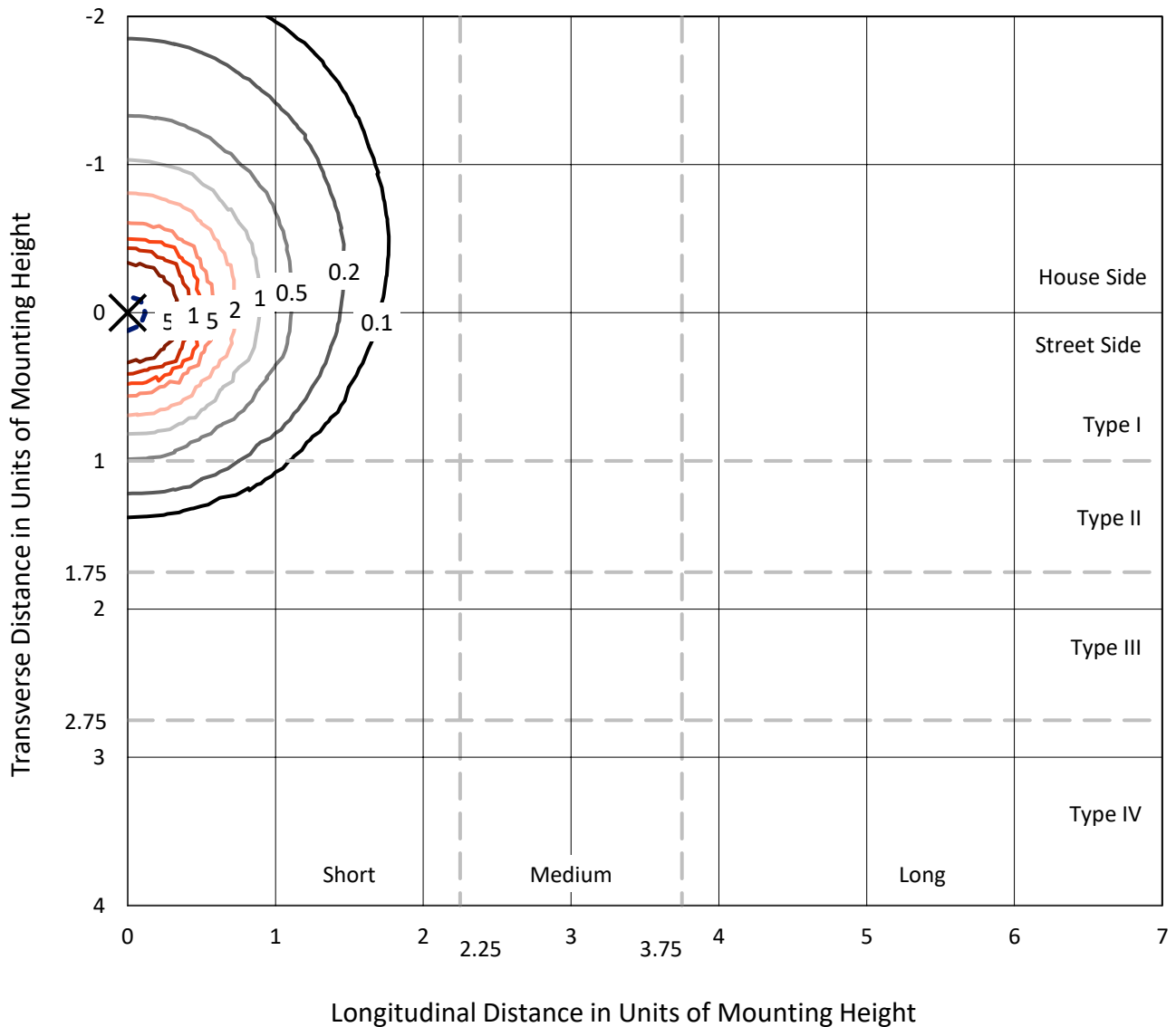
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638602
 CATALOG NUMBER: EPH-VN-06-E-935-U-33-VI

Iso-Footcandle Lines of Horizontal Illumination

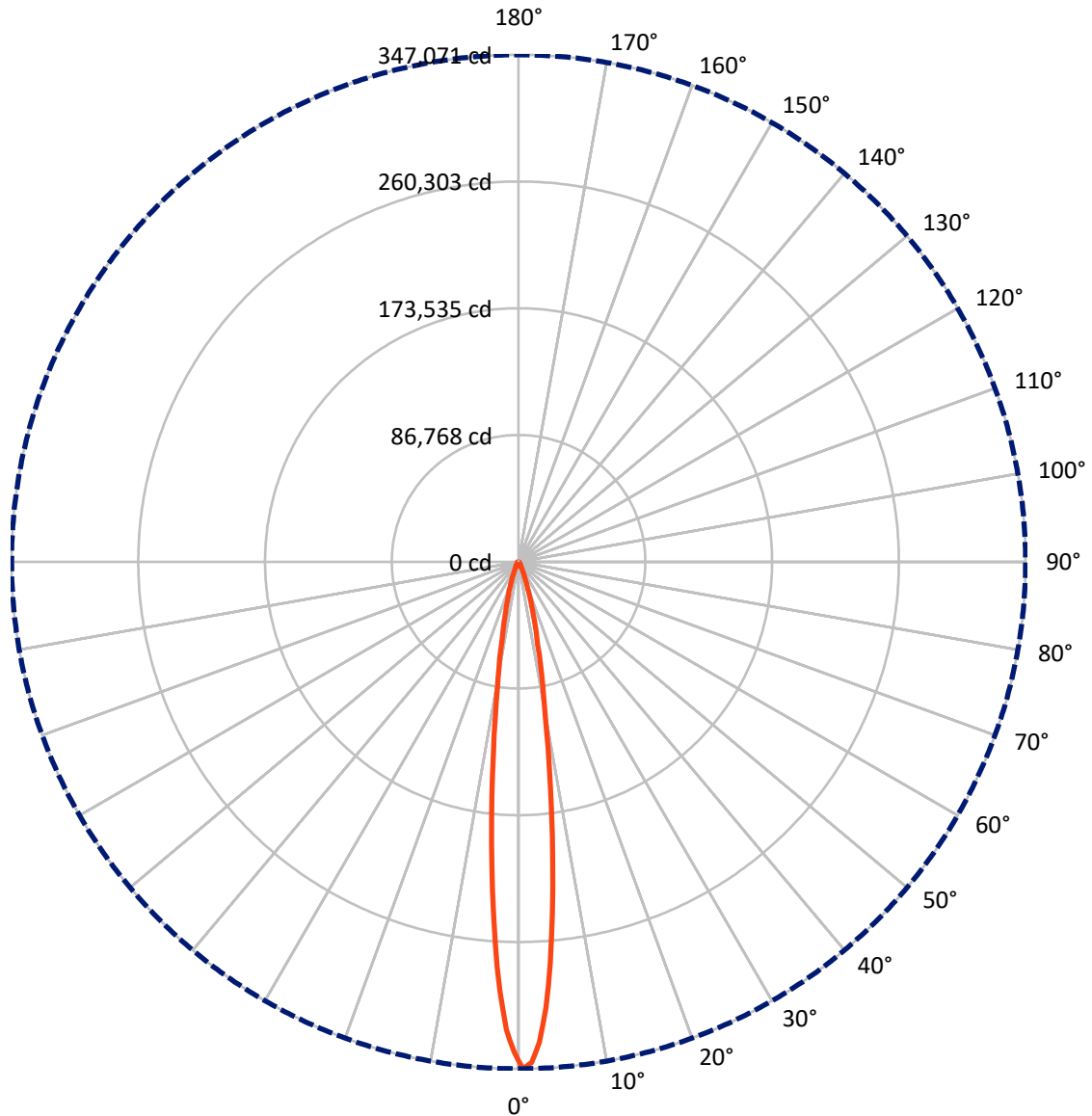
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 867.7 fc
 Type V - Short - N/A

REPORT NUMBER: P638602
CATALOG NUMBER: EPH-VN-06-E-935-U-33-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

REPORT NUMBER: P638602
 CATALOG NUMBER: EPH-VN-06-E-935-U-33-VI

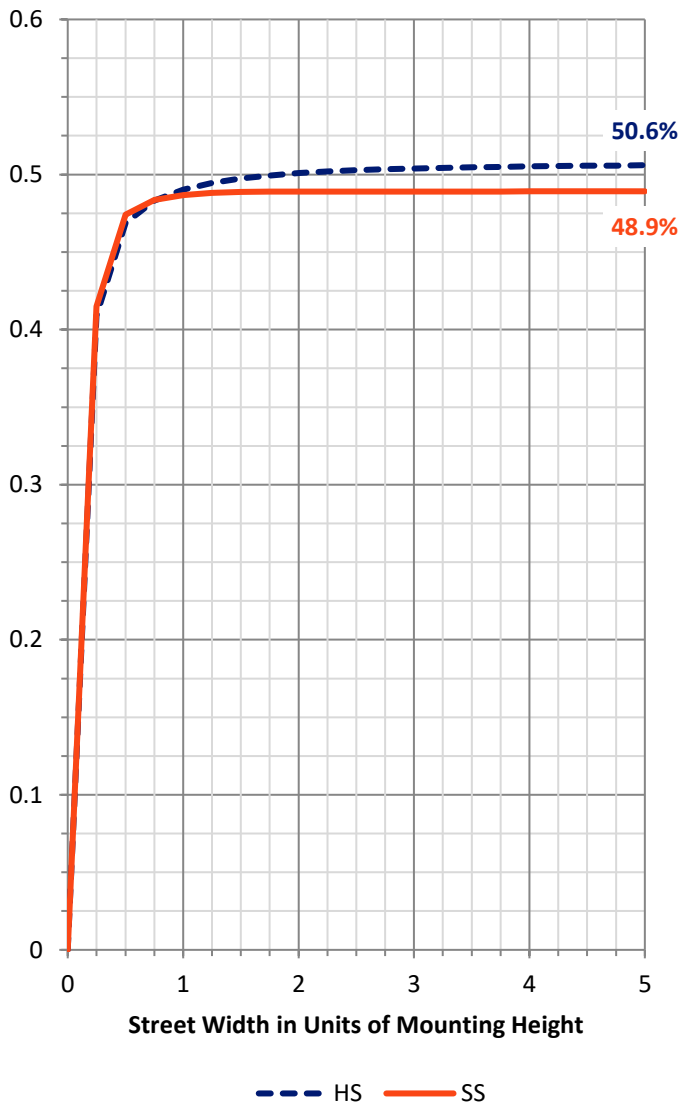
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17895.8	0.0	17895.8
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	17044.5	0.0	17044.5
	% Fixture	48.8	0.0	48.8
Total	Lumens	34940.3	0.0	34940.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17638.9	50.5
10°-20°	11292.4	32.3
20°-30°	3394.3	9.7
30°-40°	1105.2	3.2
40°-50°	643.0	1.8
50°-60°	427.1	1.2
60°-70°	257.1	0.7
70°-80°	132.1	0.4
80°-90°	50.2	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°	34940.3	100.0
0°-180°	34940.3	100.0

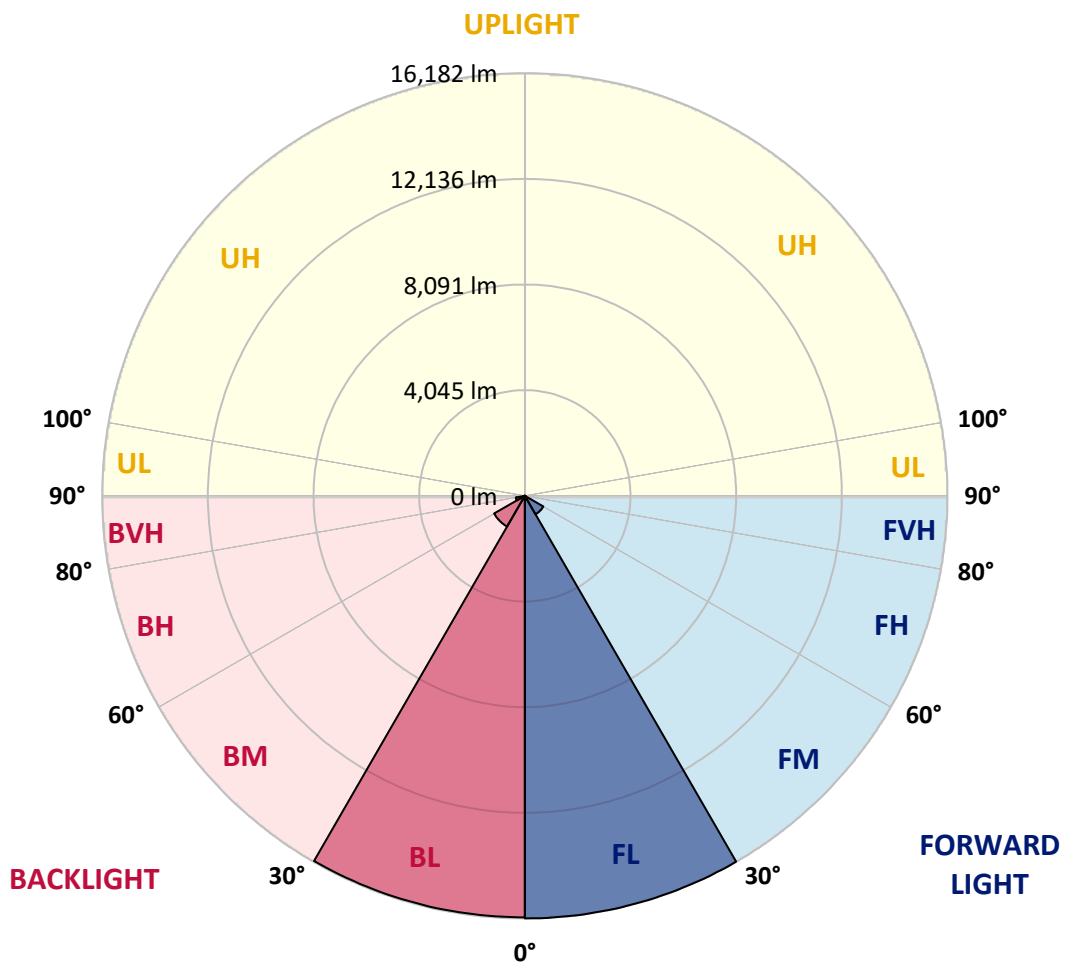


REPORT NUMBER: P638602
 CATALOG NUMBER: EPH-VN-06-E-935-U-33-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	16182.0	46.3			
FM (30°-60°)	816.6	2.3			
FH (60°-80°)	38.4	0.1			G0/660
FVH (80°-90°)	7.6	0.0			G0/10
BL (0°-30°)	16143.6	46.2	B5		
BM (30°-60°)	1358.8	3.9	B2/2500		
BH (60°-80°)	350.8	1.0	B1/500		G0/660
BVH (80°-90°)	42.6	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





REPORT NUMBER: P638602
 CATALOG NUMBER: EPH-VN-06-E-935-U-33-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	347070.8	347070.8	347070.8	347070.8	347070.8	347070.8	347070.8	347070.8	347070.8	347070.8
1°	342915.1	341868.6	339166.7	341088.5	342778.1	342287.2	342253.0	342070.3	341815.3	343817.1
2°	329207.5	328530.1	324534.3	326182.1	328583.4	326832.8	327928.9	326966.0	326985.1	329375.0
3°	306100.2	306469.3	300095.0	303090.0	306427.4	302184.2	303501.0	305974.6	303383.0	302602.9
4°	276066.7	272862.4	269380.3	272424.8	273288.6	270818.8	273246.8	276276.0	272675.9	272835.8
5°	241778.6	239411.5	235290.1	237170.1	235027.5	235807.7	239445.8	240694.0	238182.3	235019.9
6°	206523.9	204841.8	199689.1	202398.7	201637.6	201196.1	205789.4	201983.9	203353.9	201439.7
7°	171786.8	168643.4	166112.7	168708.1	168875.5	167547.4	173510.7	172818.1	170325.4	169747.0
8°	142327.9	139192.1	137049.6	138982.8	140246.3	138160.8	140965.5	142807.4	140859.0	141034.0
9°	114794.7	114242.9	111263.1	113790.0	115163.8	112930.0	116035.3	116701.3	114878.4	115765.1
10°	94256.1	93613.0	91234.5	92258.2	94533.9	91870.0	94849.8	95066.7	93613.0	94027.8
12.5°	58247.9	57989.1	57924.4	58072.8	58042.4	58514.3	59275.4	58407.7	58293.6	56858.9
15°	37648.4	38032.8	37637.0	38398.1	38508.5	38953.7	38489.4	37789.2	36453.5	35791.3
17.5°	23495.5	23986.4	24663.8	25778.9	26893.9	27023.3	26406.8	25584.8	24937.8	24230.0
20°	13517.3	13757.1	13654.3	14990.1	17874.7	18658.7	17863.3	16999.4	16219.3	15503.8
22.5°	8398.9	8311.3	8471.2	8920.2	9860.2	12284.3	11633.6	10769.7	10202.7	9612.8
25°	5148.9	5244.1	5183.2	5430.5	5853.0	6880.5	7028.9	6655.9	6366.7	6062.3
27.5°	3314.6	3314.6	3341.3	3478.3	3767.5	3733.3	4524.8	4235.6	4079.6	3931.1
30°	2302.4	2310.0	2310.0	2389.9	2454.6	2340.4	2545.9	2918.9	2846.6	2732.4
32.5°	1708.7	1731.5	1750.6	1792.4	1739.1	1617.4	1666.8	2100.7	2058.8	2016.9
35°	1301.5	1320.5	1366.2	1389.0	1312.9	1236.8	1191.1	1545.1	1564.1	1552.7
37.5°	947.6	959.0	1042.7	1130.3	1042.7	974.2	947.6	1187.3	1278.7	1267.3
40°	726.9	730.7	745.9	844.8	844.8	791.6	799.2	886.7	1046.5	1046.5
42.5°	624.1	624.1	639.3	624.1	627.9	685.0	704.0	715.4	886.7	886.7
45°	540.4	540.4	548.0	509.9	471.9	589.9	605.1	608.9	745.9	764.9
47.5°	452.9	452.9	468.1	418.6	399.6	468.1	509.9	521.4	643.1	658.4
50°	334.9	338.7	384.4	342.5	353.9	361.5	441.4	449.1	544.2	578.4
52.5°	224.5	224.5	232.1	266.4	308.3	296.8	357.7	384.4	433.8	479.5
55°	182.7	182.7	178.9	171.3	228.3	247.4	262.6	319.7	353.9	411.0
57.5°	125.6	133.2	121.8	140.8	148.4	186.5	197.9	251.2	270.2	346.3
60°	15.2	19.0	26.6	102.8	98.9	125.6	148.4	197.9	220.7	266.4
62.5°	3.8	3.8	7.6	19.0	68.5	83.7	118.0	137.0	159.8	205.5
65°	0.0	0.0	3.8	7.6	15.2	45.7	60.9	79.9	114.2	144.6
67.5°	0.0	0.0	3.8	7.6	7.6	19.0	30.4	49.5	60.9	106.6
70°	0.0	0.0	3.8	7.6	7.6	15.2	19.0	22.8	41.9	57.1
72.5°	0.0	0.0	3.8	7.6	11.4	15.2	19.0	19.0	19.0	38.1
75°	0.0	0.0	3.8	7.6	11.4	15.2	19.0	19.0	15.2	15.2
77.5°	0.0	0.0	3.8	7.6	15.2	19.0	22.8	19.0	11.4	11.4
80°	0.0	0.0	3.8	11.4	19.0	26.6	30.4	22.8	11.4	7.6
82.5°	0.0	0.0	7.6	15.2	22.8	30.4	41.9	34.3	15.2	7.6
85°	0.0	0.0	3.8	11.4	22.8	30.4	60.9	41.9	19.0	3.8
87.5°	0.0	0.0	0.0	3.8	3.8	7.6	22.8	15.2	7.6	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638602

CATALOG NUMBER: EPH-VN-06-E-935-U-33-VI

CANDELA DISTRIBUTION (continued):

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
347070.8	0°	347070.8	347070.8	347070.8	347070.8	347070.8	347070.8	347070.8	347070.8
341507.1	1°	343893.2	344132.9	343349.0	344563.0	344136.7	341640.3	340814.5	339836.4
327970.7	2°	326966.0	328187.6	328248.5	329595.7	329576.7	326665.4	325763.5	327426.5
304186.0	3°	303265.0	304688.3	303405.8	305799.5	305080.3	301548.7	300631.6	302519.1
274099.2	4°	273281.0	273010.8	272569.4	271207.0	272885.2	270476.3	268661.1	271222.2
239213.7	5°	238734.2	238132.9	237272.8	236869.4	238117.7	236576.4	232843.1	236584.0
204902.7	6°	205153.9	202566.1	202440.5	202216.0	202341.6	198026.1	198284.9	201070.5
167756.7	7°	169530.1	170005.8	169035.3	170591.8	169404.5	166481.8	165355.4	168289.4
141802.8	8°	140813.3	140212.0	139469.9	141795.1	139736.3	137818.3	136505.4	138823.0
115909.7	9°	115692.8	114653.9	113900.4	113782.4	114102.1	110502.0	111232.7	112987.1
94256.1	10°	94290.3	92585.5	93000.3	93110.6	92760.5	90401.1	90423.9	91029.0
57810.3	12.5°	57604.8	56767.5	56976.8	57091.0	57802.6	56973.0	55800.9	54956.1
36449.6	15°	36206.1	35604.8	36834.0	37659.8	37492.4	36754.1	36202.3	35437.4
24230.0	17.5°	24005.5	24793.2	24797.0	25550.5	25626.6	24888.4	24462.1	23773.3
15758.8	20°	15701.7	16029.0	16710.2	17243.0	17551.2	16988.0	16478.1	16006.2
9826.0	22.5°	9826.0	10396.8	10823.0	11515.6	11797.2	11386.2	11024.7	10640.3
6134.6	25°	6031.8	6439.0	6792.9	7394.2	7778.6	7580.7	7249.6	6979.4
3961.6	27.5°	4022.5	4193.7	4368.8	4783.6	5183.2	5072.8	4939.6	4776.0
2793.3	30°	2835.1	2850.4	3036.8	3269.0	3535.4	3603.9	3543.0	3459.3
2051.2	32.5°	2089.3	2150.1	2237.7	2382.3	2561.1	2724.8	2694.3	2656.3
1567.9	35°	1613.6	1704.9	1777.2	1887.6	1982.7	2138.7	2165.4	2153.9
1290.1	37.5°	1316.7	1396.6	1468.9	1533.6	1613.6	1720.1	1803.8	1807.6
1065.6	40°	1092.2	1164.5	1259.6	1309.1	1366.2	1446.1	1548.9	1556.5
901.9	42.5°	920.9	989.4	1084.6	1145.5	1187.3	1263.4	1366.2	1381.4
772.5	45°	791.6	833.4	932.4	1004.7	1046.5	1096.0	1206.4	1221.6
666.0	47.5°	688.8	730.7	791.6	894.3	932.4	978.0	1065.6	1092.2
589.9	50°	605.1	646.9	700.2	791.6	848.6	886.7	959.0	997.1
513.8	52.5°	536.6	578.4	635.5	707.8	772.5	806.8	875.3	924.8
418.6	55°	449.1	521.4	563.2	627.9	715.4	745.9	799.2	863.9
365.3	57.5°	392.0	452.9	513.8	567.0	654.6	692.6	745.9	806.8
289.2	60°	331.1	388.2	460.5	506.1	589.9	639.3	696.4	753.5
220.7	62.5°	262.6	338.7	388.2	452.9	532.8	597.5	643.1	700.2
171.3	65°	194.1	277.8	334.9	403.4	479.5	548.0	586.1	646.9
121.8	67.5°	140.8	216.9	285.4	350.1	422.4	490.9	529.0	582.3
76.1	70°	110.4	159.8	235.9	293.0	369.1	426.2	468.1	502.3
49.5	72.5°	64.7	121.8	190.3	255.0	323.5	361.5	392.0	422.4
22.8	75°	41.9	95.1	156.0	213.1	262.6	296.8	323.5	350.1
11.4	77.5°	26.6	68.5	125.6	178.9	201.7	243.6	266.4	281.6
7.6	80°	15.2	53.3	110.4	144.6	163.6	190.3	213.1	232.1
7.6	82.5°	11.4	45.7	91.3	121.8	121.8	152.2	163.6	163.6
3.8	85°	7.6	38.1	72.3	114.2	91.3	114.2	106.6	106.6
3.8	87.5°	7.6	26.6	34.3	49.5	41.9	49.5	49.5	57.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
347070.8
335962.4
320382.4
294135.5
261951.9
226727.6
192995.1
160309.2
132205.1
107507.1
86911.4
54442.3
35045.4
23602.1
15842.5
10434.8
6823.4
4680.8
3402.2
2625.8
2115.9
1781.0
1545.1
1370.0
1217.8
1096.0
1000.9
924.8
867.7
810.6
768.7
726.9
658.4
586.1
513.8
430.0
350.1
274.0
209.3
152.2
102.8
57.1
0.0

(END OF REPORT)