

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: P638587

Luminaire Tested: **EPH-VN-08-E-750-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638587
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-750-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69647 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

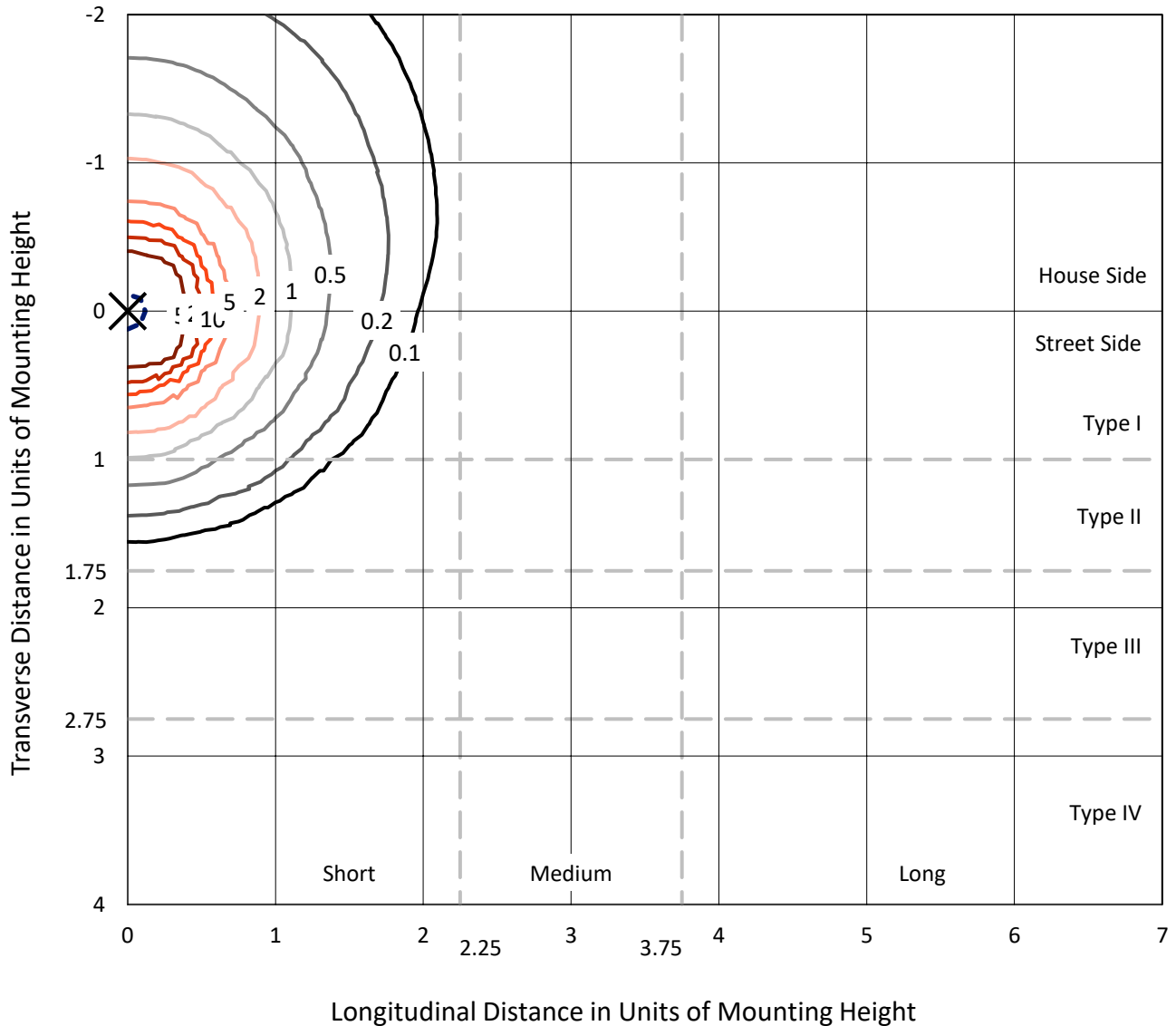
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

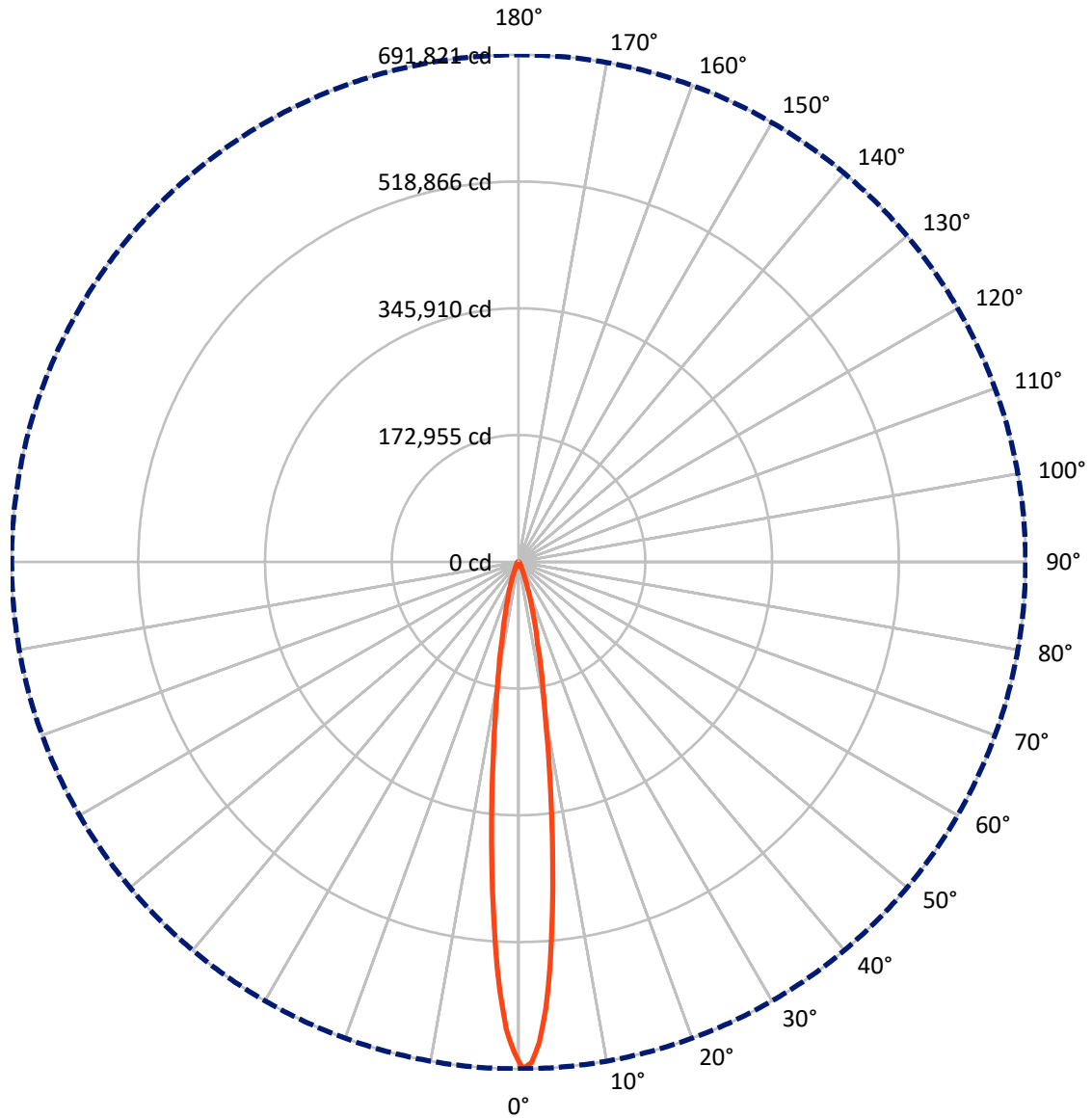
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1729.6 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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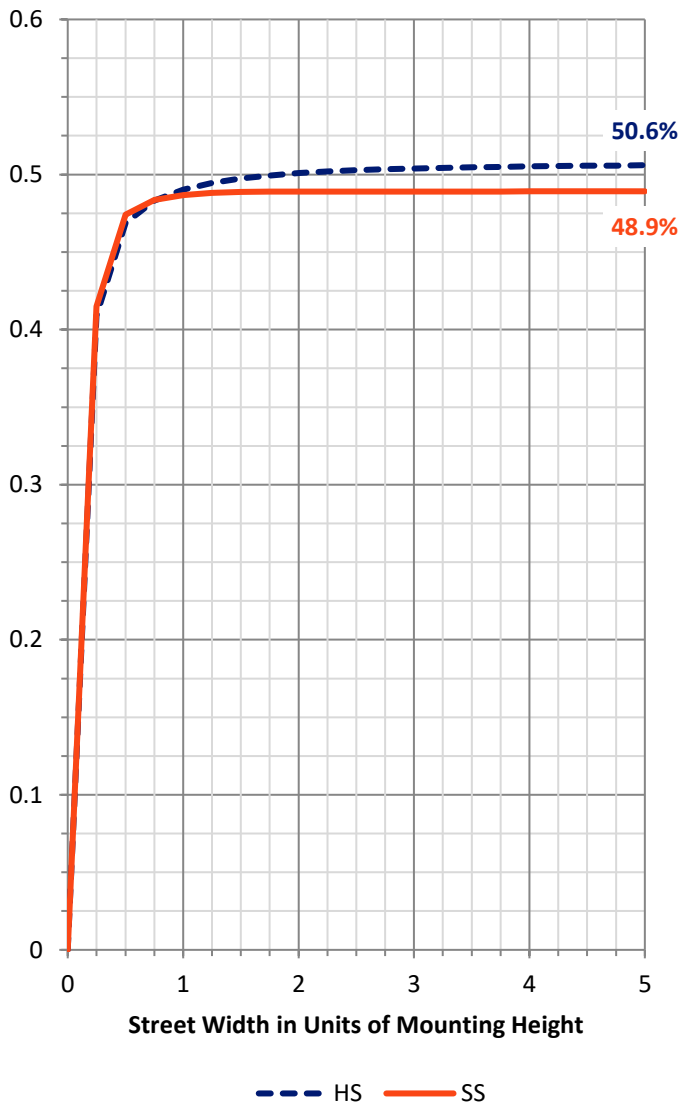
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	35671.9	0.0	35671.9
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	33975.1	0.0	33975.1
	% Fixture	48.8	0.0	48.8
Total	Lumens	69647.0	0.0	69647.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35159.9	50.5
10°-20°	22509.2	32.3
20°-30°	6765.8	9.7
30°-40°	2203.0	3.2
40°-50°	1281.8	1.8
50°-60°	851.4	1.2
60°-70°	512.5	0.7
70°-80°	263.4	0.4
80°-90°	100.1	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°	69647.0	100.0
0°-180°	69647.0	100.0

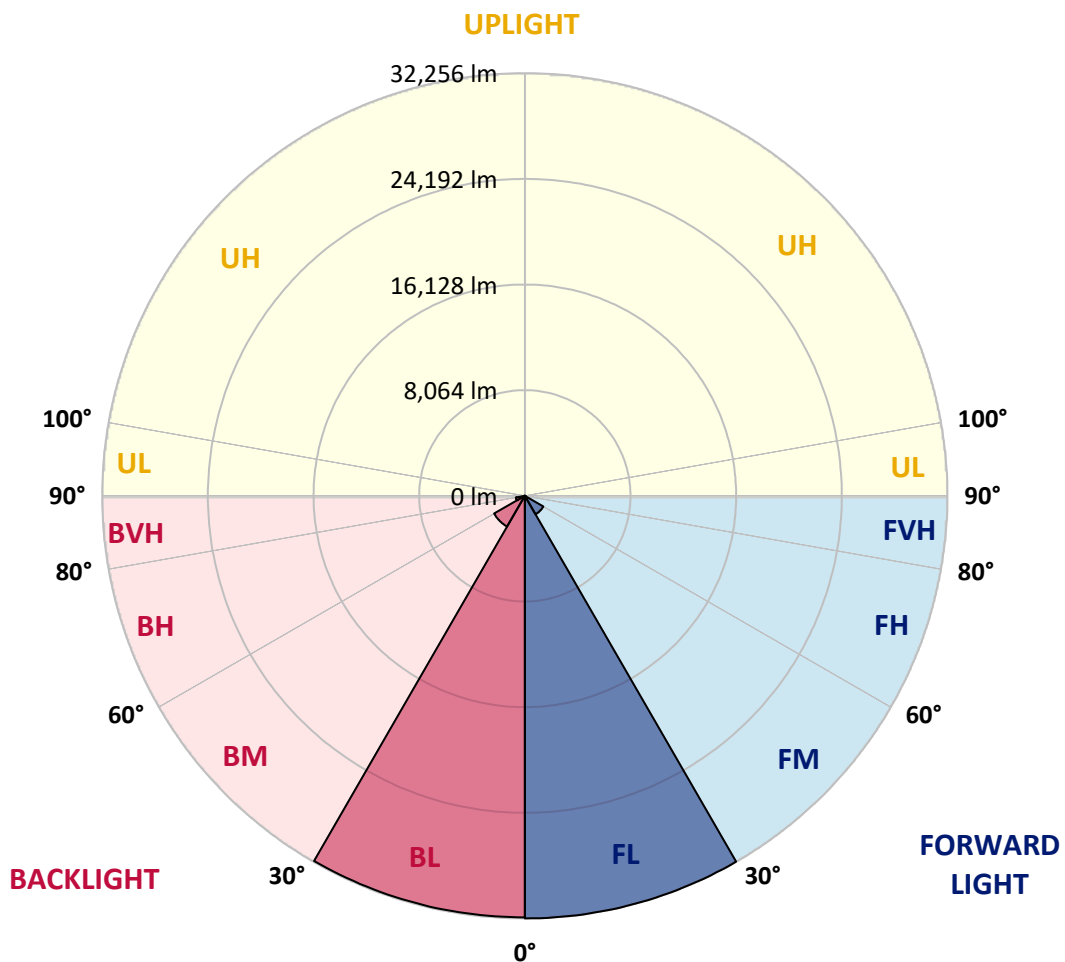


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	32255.7	46.3			
FM (30°-60°)	1627.7	2.3			
FH (60°-80°)	76.6	0.1			G0/660
FVH (80°-90°)	15.1	0.0			G1/100
BL (0°-30°)	32179.3	46.2	B5		
BM (30°-60°)	2708.4	3.9	B3/5000		
BH (60°-80°)	699.3	1.0	B2/1000		G1/1800
BVH (80°-90°)	85.0	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°	691820.7	691820.7	691820.7	691820.7	691820.7	691820.7	691820.7	691820.7	691820.7	691820.7
1°	683537.2	681451.1	676065.3	679896.1	683264.1	682285.6	682217.3	681853.2	681344.9	685335.0
2°	656213.6	654863.4	646898.4	650183.0	654969.6	651480.2	653664.8	651745.7	651783.6	656547.4
3°	610153.4	610889.2	598183.2	604153.2	610805.8	602347.8	604972.4	609903.1	604737.2	603182.2
4°	550287.3	543900.2	536959.3	543027.8	544749.8	539826.7	544666.3	550704.5	543528.5	543847.1
5°	481940.4	477222.1	469006.8	472754.2	468483.4	470038.5	477290.4	479778.5	474772.0	468468.3
6°	411666.8	408313.9	398042.9	403443.9	401926.8	401046.8	410202.7	402617.1	405347.9	401532.3
7°	342424.8	336159.0	331114.5	336288.0	336621.7	333974.3	345861.1	344480.5	339511.9	338358.8
8°	283704.1	277453.5	273182.8	277036.3	279554.7	275397.8	280988.4	284659.9	280776.0	281125.0
9°	228821.8	227721.8	221782.3	226819.1	229557.6	225104.8	231294.7	232622.2	228988.6	230756.1
10°	187881.9	186599.9	181858.9	183899.4	188435.6	183125.7	189065.3	189497.6	186599.9	187426.8
12.5°	116106.3	115590.4	115461.5	115757.3	115696.6	116637.3	118154.4	116424.9	116197.3	113337.5
15°	75045.0	75811.2	75022.3	76539.4	76759.4	77646.9	76721.5	75325.7	72663.1	71343.2
17.5°	46833.9	47812.5	49162.7	51385.3	53607.9	53865.8	52637.0	50998.5	49708.9	48298.0
20°	26944.3	27422.2	27217.4	29880.0	35629.9	37192.5	35607.1	33885.2	32330.1	30904.0
22.5°	16741.6	16567.1	16885.7	17780.8	19654.5	24486.5	23189.4	21467.4	20337.2	19161.4
25°	10263.4	10453.1	10331.7	10824.8	11666.8	13714.9	14010.7	13267.3	12690.8	12084.0
27.5°	6607.1	6607.1	6660.2	6933.3	7509.8	7441.5	9019.4	8442.9	8131.8	7836.0
30°	4589.3	4604.5	4604.5	4763.8	4892.8	4665.2	5074.8	5818.2	5674.1	5446.5
32.5°	3406.0	3451.5	3489.4	3572.9	3466.7	3223.9	3322.5	4187.3	4103.8	4020.4
35°	2594.3	2632.2	2723.3	2768.8	2617.1	2465.3	2374.3	3079.8	3117.7	3095.0
37.5°	1888.8	1911.6	2078.5	2252.9	2078.5	1941.9	1888.8	2366.7	2548.8	2526.0
40°	1448.9	1456.4	1486.8	1684.0	1684.0	1577.8	1593.0	1767.5	2086.1	2086.1
42.5°	1244.0	1244.0	1274.4	1244.0	1251.6	1365.4	1403.3	1426.1	1767.5	1767.5
45°	1077.2	1077.2	1092.3	1016.5	940.6	1175.8	1206.1	1213.7	1486.8	1524.7
47.5°	902.7	902.7	933.0	834.4	796.5	933.0	1016.5	1039.2	1282.0	1312.3
50°	667.5	675.1	766.2	682.7	705.5	720.6	879.9	895.1	1084.8	1153.0
52.5°	447.6	447.6	462.7	531.0	614.4	591.7	713.1	766.2	864.8	955.8
55°	364.1	364.1	356.5	341.4	455.1	493.1	523.4	637.2	705.5	819.3
57.5°	250.3	265.5	242.7	280.7	295.8	371.7	394.5	500.7	538.6	690.3
60°	30.3	37.9	53.1	204.8	197.2	250.3	295.8	394.5	440.0	531.0
62.5°	7.6	7.6	15.2	37.9	136.5	166.9	235.2	273.1	318.6	409.6
65°	0.0	0.0	7.6	15.2	30.3	91.0	121.4	159.3	227.6	288.3
67.5°	0.0	0.0	7.6	15.2	15.2	37.9	60.7	98.6	121.4	212.4
70°	0.0	0.0	7.6	15.2	15.2	30.3	37.9	45.5	83.4	113.8
72.5°	0.0	0.0	7.6	15.2	22.8	30.3	37.9	37.9	37.9	75.9
75°	0.0	0.0	7.6	15.2	22.8	30.3	37.9	37.9	30.3	30.3
77.5°	0.0	0.0	7.6	15.2	30.3	37.9	45.5	37.9	22.8	22.8
80°	0.0	0.0	7.6	22.8	37.9	53.1	60.7	45.5	22.8	15.2
82.5°	0.0	0.0	15.2	30.3	45.5	60.7	83.4	68.3	30.3	15.2
85°	0.0	0.0	7.6	22.8	45.5	60.7	121.4	83.4	37.9	7.6
87.5°	0.0	0.0	0.0	7.6	7.6	15.2	45.5	30.3	15.2	7.6
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°
691820.7	691820.7	691820.7	691820.7	691820.7	691820.7	691820.7	691820.7	691820.7	691820.7
680730.5	685486.7	685964.6	684402.0	686821.8	685972.2	680996.0	679349.9	677400.4	674593.7
653748.3	651745.7	654180.7	654302.0	656987.3	656949.4	651146.4	649348.6	652663.5	646192.9
606337.8	604502.1	607339.1	604782.8	609554.2	608120.5	601081.0	599252.8	603015.3	598312.2
546365.5	544734.6	544196.0	543316.1	540600.4	543945.7	539144.0	535525.6	540630.7	530572.1
476827.7	475871.9	474673.3	472959.0	472154.9	474643.0	471570.8	464129.3	471586.0	453645.9
408435.3	408935.9	403777.7	403527.3	403079.8	403330.1	394728.0	395243.8	400796.5	385867.9
334391.5	337926.5	338874.7	336940.3	340042.9	337676.1	331850.3	329605.0	335453.5	324901.9
282657.3	280685.0	279486.4	278007.2	282642.1	278538.2	274715.1	272098.0	276717.7	268881.7
231044.4	230612.0	228541.1	227039.1	226804.0	227441.2	220265.1	221721.6	225218.6	220500.3
187881.9	187950.2	184551.8	185378.6	185598.6	184900.7	180197.6	180243.1	181449.2	175775.2
115233.9	114824.3	113155.4	113572.7	113800.2	115218.8	113565.1	111228.7	109544.7	108695.1
72655.6	72170.1	70971.5	73421.7	75067.8	74734.0	73262.4	72162.5	70637.8	69408.9
48298.0	47850.4	49420.6	49428.2	50930.2	51081.9	49610.3	48760.7	47387.7	47448.4
31412.3	31298.5	31950.8	33308.7	34370.7	34985.1	33862.4	32846.0	31905.3	31510.9
19586.2	19586.2	20724.1	21573.6	22954.2	23515.6	22696.3	21975.7	21209.5	20739.2
12228.1	12023.3	12835.0	13540.4	14739.0	15505.1	15110.7	14450.7	13912.1	13661.8
7896.7	8018.1	8359.4	8708.3	9535.2	10331.7	10111.7	9846.2	9520.0	9406.2
5567.9	5651.3	5681.7	6053.4	6516.1	7047.1	7183.6	7062.3	6895.4	6766.4
4088.7	4164.5	4285.9	4460.4	4748.6	5105.2	5431.3	5370.7	5294.8	5234.1
3125.3	3216.3	3398.4	3542.5	3762.5	3952.1	4263.1	4316.2	4293.5	4248.0
2571.5	2624.6	2783.9	2928.1	3057.0	3216.3	3428.7	3595.6	3603.2	3557.7
2124.0	2177.1	2321.2	2510.9	2609.5	2723.3	2882.6	3087.4	3102.5	3087.4
1797.8	1835.7	1972.3	2161.9	2283.3	2366.7	2518.4	2723.3	2753.6	2723.3
1539.9	1577.8	1661.3	1858.5	2002.6	2086.1	2184.7	2404.7	2435.0	2427.4
1327.5	1373.0	1456.4	1577.8	1782.6	1858.5	1949.5	2124.0	2177.1	2177.1
1175.8	1206.1	1289.6	1395.8	1577.8	1691.6	1767.5	1911.6	1987.4	1987.4
1024.1	1069.6	1153.0	1266.8	1410.9	1539.9	1608.2	1744.7	1843.3	1843.3
834.4	895.1	1039.2	1122.7	1251.6	1426.1	1486.8	1593.0	1721.9	1721.9
728.2	781.3	902.7	1024.1	1130.3	1304.7	1380.6	1486.8	1608.2	1623.3
576.5	660.0	773.7	917.9	1008.9	1175.8	1274.4	1388.2	1502.0	1532.3
440.0	523.4	675.1	773.7	902.7	1062.0	1191.0	1282.0	1395.8	1441.3
341.4	386.9	553.8	667.5	804.1	955.8	1092.3	1168.2	1289.6	1319.9
242.7	280.7	432.4	568.9	697.9	842.0	978.6	1054.4	1160.6	1183.4
151.7	220.0	318.6	470.3	584.1	735.8	849.6	933.0	1001.3	1024.1
98.6	129.0	242.7	379.3	508.2	644.8	720.6	781.3	842.0	857.2
45.5	83.4	189.6	311.0	424.8	523.4	591.7	644.8	697.9	705.5
22.8	53.1	136.5	250.3	356.5	402.0	485.5	531.0	561.3	546.2
15.2	30.3	106.2	220.0	288.3	326.2	379.3	424.8	462.7	424.8
15.2	22.8	91.0	182.1	242.7	242.7	303.4	326.2	326.2	311.0
7.6	15.2	75.9	144.1	227.6	182.1	227.6	212.4	212.4	212.4
7.6	15.2	53.1	68.3	98.6	83.4	98.6	98.6	113.8	113.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
691820.7
669678.2
638622.4
586304.1
522152.1
451939.1
384699.7
319546.4
263526.2
214295.2
173241.5
108520.6
69856.4
47046.3
31579.1
20799.9
13601.1
9330.4
6781.6
5234.1
4217.6
3550.1
3079.8
2730.8
2427.4
2184.7
1995.0
1843.3
1729.5
1615.7
1532.3
1448.9
1312.3
1168.2
1024.1
857.2
697.9
546.2
417.2
303.4
204.8
113.8
0.0

(END OF REPORT)