

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: P638586

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

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638586  
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-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: 56709.6 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

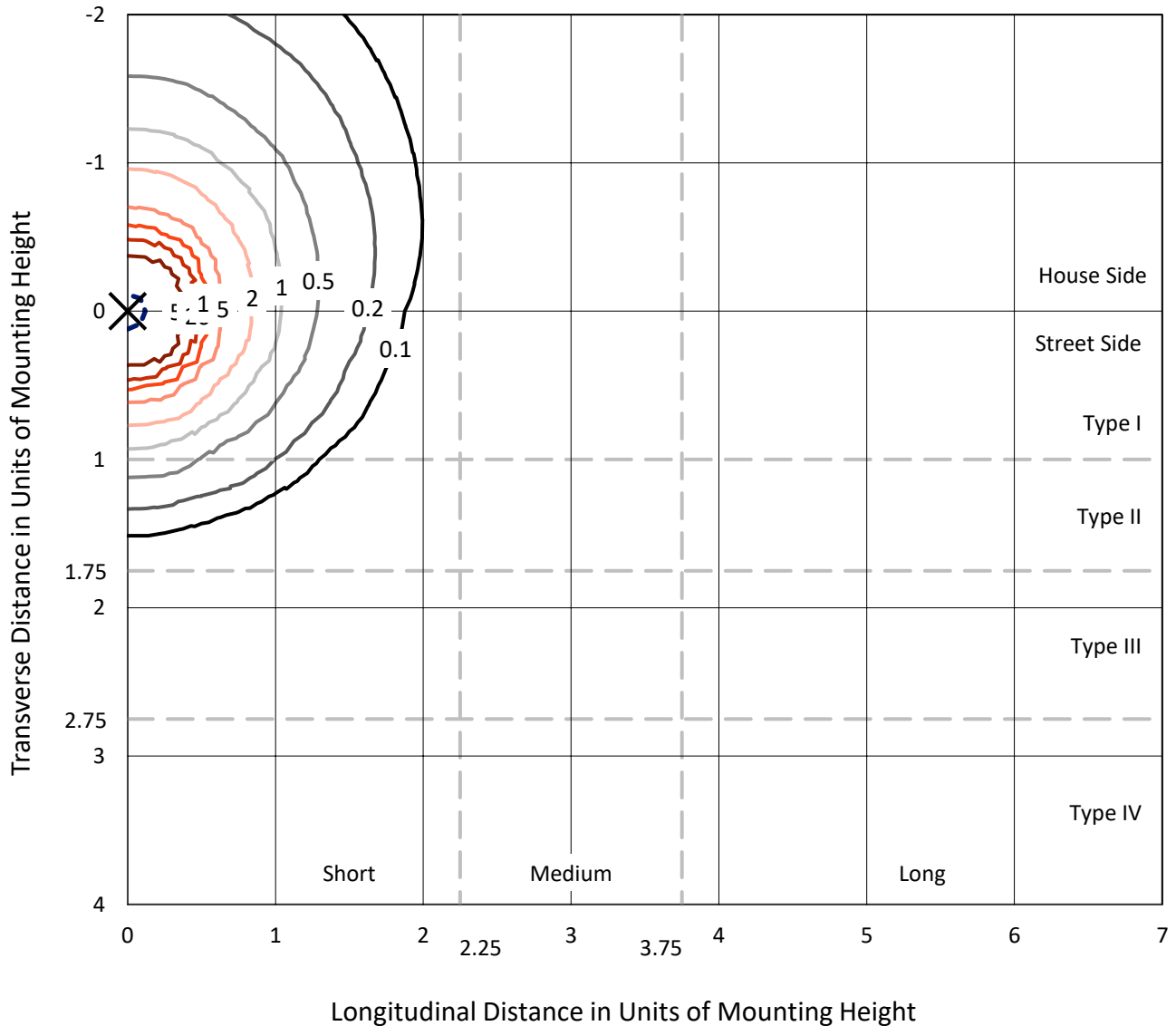
Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

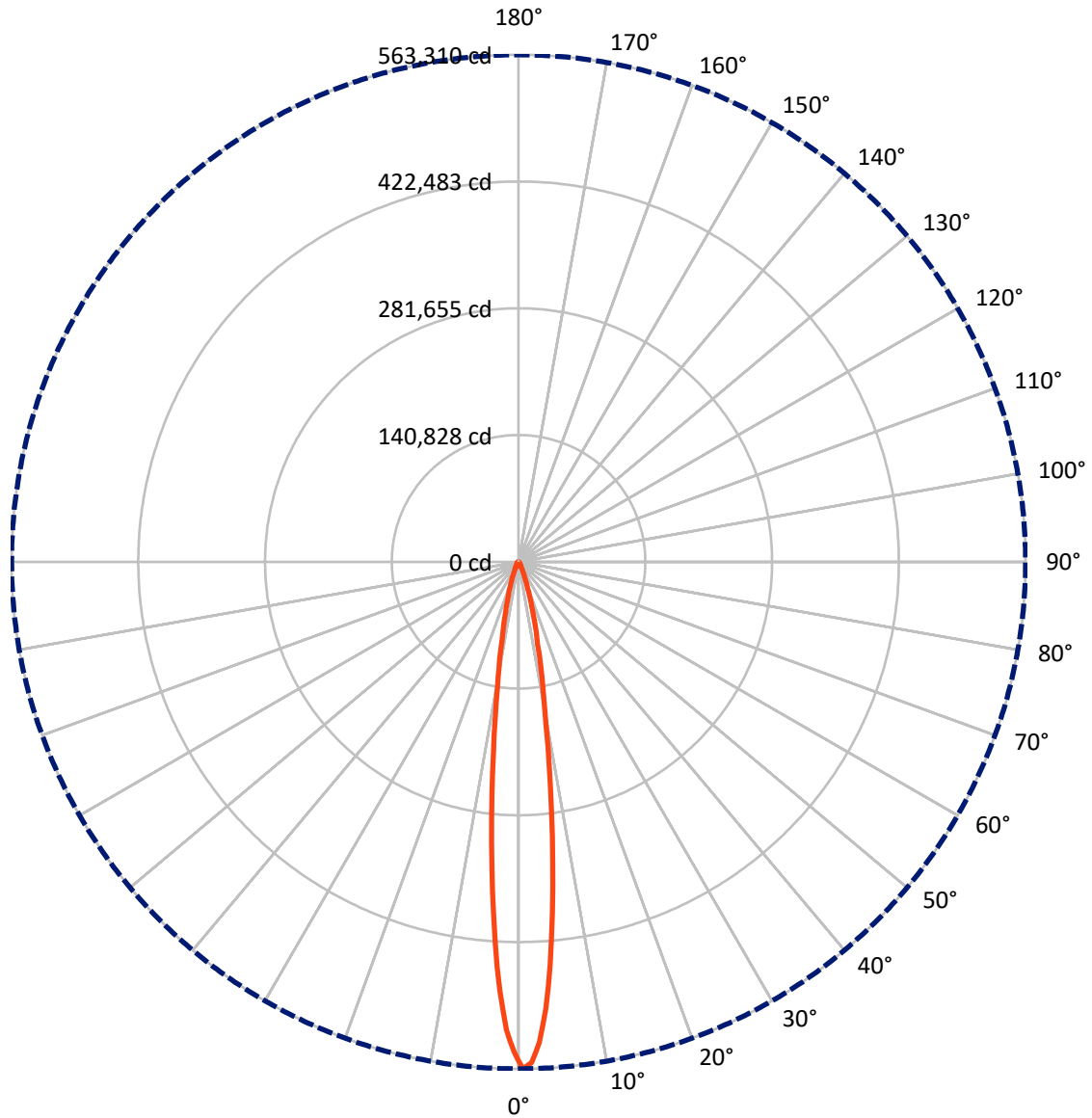
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1408.3 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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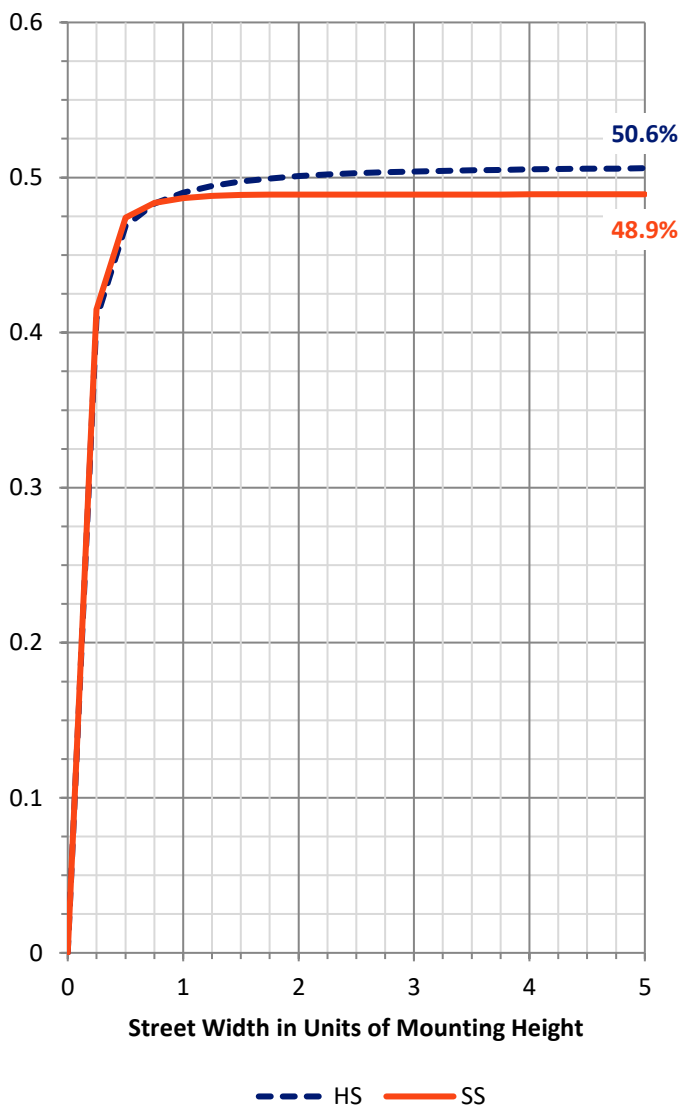
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	29045.6	0.0	29045.6
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	27664.0	0.0	27664.0
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	56709.6	0.0	56709.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28628.7	50.5
10°-20°	18328.0	32.3
20°-30°	5509.0	9.7
30°-40°	1793.8	3.2
40°-50°	1043.7	1.8
50°-60°	693.2	1.2
60°-70°	417.3	0.7
70°-80°	214.5	0.4
80°-90°	81.5	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°	56709.6	100.0
0°-180°	56709.6	100.0

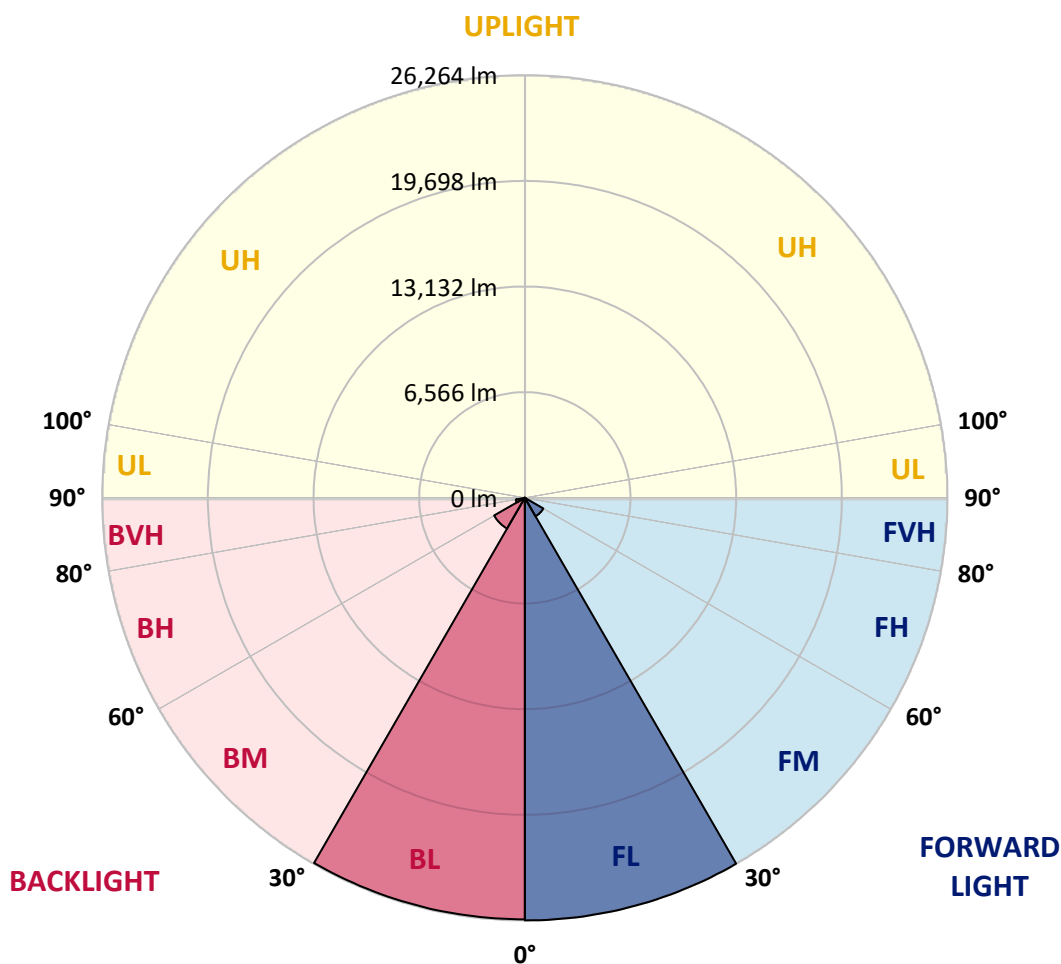


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	26264.0	46.3			
FM (30°-60°)	1325.3	2.3			
FH (60°-80°)	62.4	0.1			G0/660
FVH (80°-90°)	12.3	0.0			G1/100
BL (0°-30°)	26201.7	46.2	B5		
BM (30°-60°)	2205.3	3.9	B2/2500		
BH (60°-80°)	569.4	1.0	B2/1000		G0/660
BVH (80°-90°)	69.2	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°	563310.2	563310.2	563310.2	563310.2	563310.2	563310.2	563310.2	563310.2	563310.2	563310.2
1°	556565.3	554866.8	550481.4	553600.6	556343.0	555546.2	555490.6	555194.1	554780.3	558029.2
2°	534317.3	533217.9	526732.5	529406.9	533304.3	530463.1	532242.0	530679.3	530710.2	534589.1
3°	496813.1	497412.2	487066.5	491927.4	497344.3	490457.4	492594.5	496609.3	492403.0	491136.8
4°	448067.6	442866.9	437215.3	442156.6	443558.7	439550.1	443490.7	448407.3	442564.2	442823.6
5°	392416.6	388574.7	381885.5	384936.7	381459.3	382725.5	388630.3	390656.3	386579.7	381447.0
6°	335196.8	332466.7	324103.6	328501.3	327266.0	326549.5	334004.7	327828.1	330051.7	326944.8
7°	278816.9	273715.1	269607.7	273820.1	274091.9	271936.2	281614.9	280490.8	276445.1	275506.3
8°	231004.0	225914.5	222437.1	225574.8	227625.5	224240.7	228792.8	231782.3	228619.9	228904.0
9°	186316.5	185420.9	180584.6	184685.9	186915.6	183290.0	188330.1	189411.0	186452.4	187891.5
10°	152981.5	151937.7	148077.3	149738.8	153432.4	149108.8	153945.0	154297.1	151937.7	152610.9
12.5°	94538.7	94118.7	94013.7	94254.6	94205.2	94971.1	96206.4	94798.1	94612.8	92284.3
15°	61104.9	61728.7	61086.4	62321.7	62500.8	63223.5	62469.9	61333.4	59165.4	58090.7
17.5°	38134.2	38931.0	40030.4	41840.1	43649.9	43859.9	42859.3	41525.1	40475.1	39326.3
20°	21939.2	22328.3	22161.6	24329.5	29011.4	30283.8	28992.9	27590.8	26324.6	25163.4
22.5°	13631.7	13489.6	13749.1	14477.9	16003.5	19938.0	18881.8	17479.7	16559.4	15602.0
25°	8356.9	8511.3	8412.5	8814.0	9499.6	11167.3	11408.1	10802.8	10333.4	9839.3
27.5°	5379.8	5379.8	5423.0	5645.4	6114.8	6059.2	7344.0	6874.5	6621.3	6380.4
30°	3736.8	3749.2	3749.2	3878.9	3983.9	3798.6	4132.1	4737.4	4620.1	4434.8
32.5°	2773.3	2810.3	2841.2	2909.2	2822.7	2625.0	2705.3	3409.5	3341.5	3273.6
35°	2112.4	2143.3	2217.4	2254.5	2130.9	2007.4	1933.3	2507.7	2538.6	2520.0
37.5°	1538.0	1556.5	1692.4	1834.4	1692.4	1581.2	1538.0	1927.1	2075.3	2056.8
40°	1179.7	1185.9	1210.6	1371.2	1371.2	1284.7	1297.1	1439.1	1698.6	1698.6
42.5°	1013.0	1013.0	1037.7	1013.0	1019.1	1111.8	1142.7	1161.2	1439.1	1439.1
45°	877.1	877.1	889.4	827.7	765.9	957.4	982.1	988.3	1210.6	1241.5
47.5°	735.0	735.0	759.7	679.4	648.5	759.7	827.7	846.2	1043.8	1068.5
50°	543.5	549.7	623.8	555.9	574.4	586.8	716.5	728.8	883.3	938.8
52.5°	364.4	364.4	376.8	432.4	500.3	481.8	580.6	623.8	704.1	778.2
55°	296.5	296.5	290.3	277.9	370.6	401.5	426.2	518.8	574.4	667.1
57.5°	203.8	216.2	197.7	228.5	240.9	302.7	321.2	407.7	438.5	562.1
60°	24.7	30.9	43.2	166.8	160.6	203.8	240.9	321.2	358.2	432.4
62.5°	6.2	6.2	12.4	30.9	111.2	135.9	191.5	222.4	259.4	333.5
65°	0.0	0.0	6.2	12.4	24.7	74.1	98.8	129.7	185.3	234.7
67.5°	0.0	0.0	6.2	12.4	12.4	30.9	49.4	80.3	98.8	172.9
70°	0.0	0.0	6.2	12.4	12.4	24.7	30.9	37.1	67.9	92.6
72.5°	0.0	0.0	6.2	12.4	18.5	24.7	30.9	30.9	30.9	61.8
75°	0.0	0.0	6.2	12.4	18.5	24.7	30.9	30.9	24.7	24.7
77.5°	0.0	0.0	6.2	12.4	24.7	30.9	37.1	30.9	18.5	18.5
80°	0.0	0.0	6.2	18.5	30.9	43.2	49.4	37.1	18.5	12.4
82.5°	0.0	0.0	12.4	24.7	37.1	49.4	67.9	55.6	24.7	12.4
85°	0.0	0.0	6.2	18.5	37.1	49.4	98.8	67.9	30.9	6.2
87.5°	0.0	0.0	0.0	6.2	6.2	12.4	37.1	24.7	12.4	6.2
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°
563310.2	0°	563310.2	563310.2	563310.2	563310.2	563310.2	563310.2	563310.2	563310.2
554280.0	1°	558152.7	558541.8	557269.5	559239.8	558548.0	554496.2	553155.9	551568.5
532309.9	2°	530679.3	532662.0	532760.8	534947.3	534916.4	530191.3	528727.5	531426.7
493706.3	3°	492211.6	494521.6	492440.1	496325.2	495157.8	489425.9	487937.4	491001.0
444874.3	4°	443546.3	443107.8	442391.3	440180.1	442903.9	438994.2	436047.9	440204.8
388253.6	5°	387475.3	386499.4	385103.5	384448.8	386474.7	383973.2	377914.0	383985.5
332565.5	6°	332973.2	328773.1	328569.3	328204.9	328408.7	321404.5	321824.5	326345.7
272275.9	7°	275154.2	275926.3	274351.3	276877.5	274950.4	270206.8	268378.5	273140.7
230151.7	8°	228545.8	227569.9	226365.4	230139.3	226797.8	223684.8	221553.9	225315.4
188126.2	9°	187774.2	186088.0	184865.0	184673.5	185192.4	179349.3	180535.2	183382.6
152981.5	10°	153037.1	150270.0	150943.2	151122.4	150554.1	146724.6	146761.7	147743.8
93828.4	12.5°	93494.9	92136.0	92475.7	92661.0	93816.1	92469.6	90567.2	89196.0
59159.3	15°	58764.0	57788.1	59783.1	61123.4	60851.7	59653.4	58757.8	57516.3
39326.3	17.5°	38961.9	40240.4	40246.6	41469.5	41593.1	40394.8	39703.0	38585.1
25577.2	20°	25484.6	26015.7	27121.4	27986.1	28486.4	27572.2	26744.6	25978.7
15947.9	22.5°	15947.9	16874.4	17566.2	18690.3	19147.4	18480.3	17893.5	17269.7
9956.6	25°	9789.9	10450.8	11025.2	12001.1	12624.9	12303.7	11766.4	11327.8
6429.8	27.5°	6528.6	6806.6	7090.7	7764.0	8412.5	8233.4	8017.2	7751.6
4533.6	30°	4601.6	4626.3	4928.9	5305.7	5738.0	5849.2	5750.4	5614.5
3329.2	32.5°	3390.9	3489.8	3631.8	3866.5	4156.8	4422.4	4373.0	4311.3
2544.8	35°	2618.9	2767.1	2884.5	3063.6	3218.0	3471.2	3514.5	3495.9
2093.9	37.5°	2137.1	2266.8	2384.2	2489.2	2618.9	2791.8	2927.7	2933.9
1729.4	40°	1772.7	1890.0	2044.4	2124.7	2217.4	2347.1	2513.9	2526.2
1463.8	42.5°	1494.7	1605.9	1760.3	1859.2	1927.1	2050.6	2217.4	2242.1
1253.8	45°	1284.7	1352.7	1513.3	1630.6	1698.6	1778.9	1958.0	1982.7
1080.9	47.5°	1118.0	1185.9	1284.7	1451.5	1513.3	1587.4	1729.4	1772.7
957.4	50°	982.1	1050.0	1136.5	1284.7	1377.4	1439.1	1556.5	1618.3
833.8	52.5°	870.9	938.8	1031.5	1148.8	1253.8	1309.4	1420.6	1500.9
679.4	55°	728.8	846.2	914.1	1019.1	1161.2	1210.6	1297.1	1402.1
593.0	57.5°	636.2	735.0	833.8	920.3	1062.4	1124.1	1210.6	1309.4
469.4	60°	537.4	630.0	747.4	821.5	957.4	1037.7	1130.3	1223.0
358.2	62.5°	426.2	549.7	630.0	735.0	864.7	969.7	1043.8	1136.5
277.9	65°	315.0	450.9	543.5	654.7	778.2	889.4	951.2	1050.0
197.7	67.5°	228.5	352.1	463.2	568.2	685.6	796.8	858.5	945.0
123.5	70°	179.1	259.4	382.9	475.6	599.1	691.8	759.7	815.3
80.3	72.5°	105.0	197.7	308.8	413.8	525.0	586.8	636.2	685.6
37.1	75°	67.9	154.4	253.2	345.9	426.2	481.8	525.0	568.2
18.5	77.5°	43.2	111.2	203.8	290.3	327.4	395.3	432.4	457.1
12.4	80°	24.7	86.5	179.1	234.7	265.6	308.8	345.9	376.8
12.4	82.5°	18.5	74.1	148.2	197.7	197.7	247.1	265.6	265.6
6.2	85°	12.4	61.8	117.4	185.3	148.2	185.3	172.9	172.9
6.2	87.5°	12.4	43.2	55.6	80.3	67.9	80.3	80.3	92.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
563310.2  
545280.7  
519993.8  
477394.0  
425158.6  
367988.2  
313239.0  
260188.4  
214574.3  
174488.4  
141060.7  
88362.1  
56880.1  
38307.1  
25713.1  
16936.2  
11074.6  
7597.2  
5521.9  
4261.8  
3434.2  
2890.6  
2507.7  
2223.6  
1976.5  
1778.9  
1624.4  
1500.9  
1408.3  
1315.6  
1247.7  
1179.7  
1068.5  
951.2  
833.8  
698.0  
568.2  
444.7  
339.7  
247.1  
166.8  
92.6  
0.0

(END OF REPORT)