

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: P638573

Luminaire Tested: **EPH-VN-07-E-735-U-33-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638573  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-07-E-735-U-33-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 3 distribution lens and Visor  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 55370.8 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

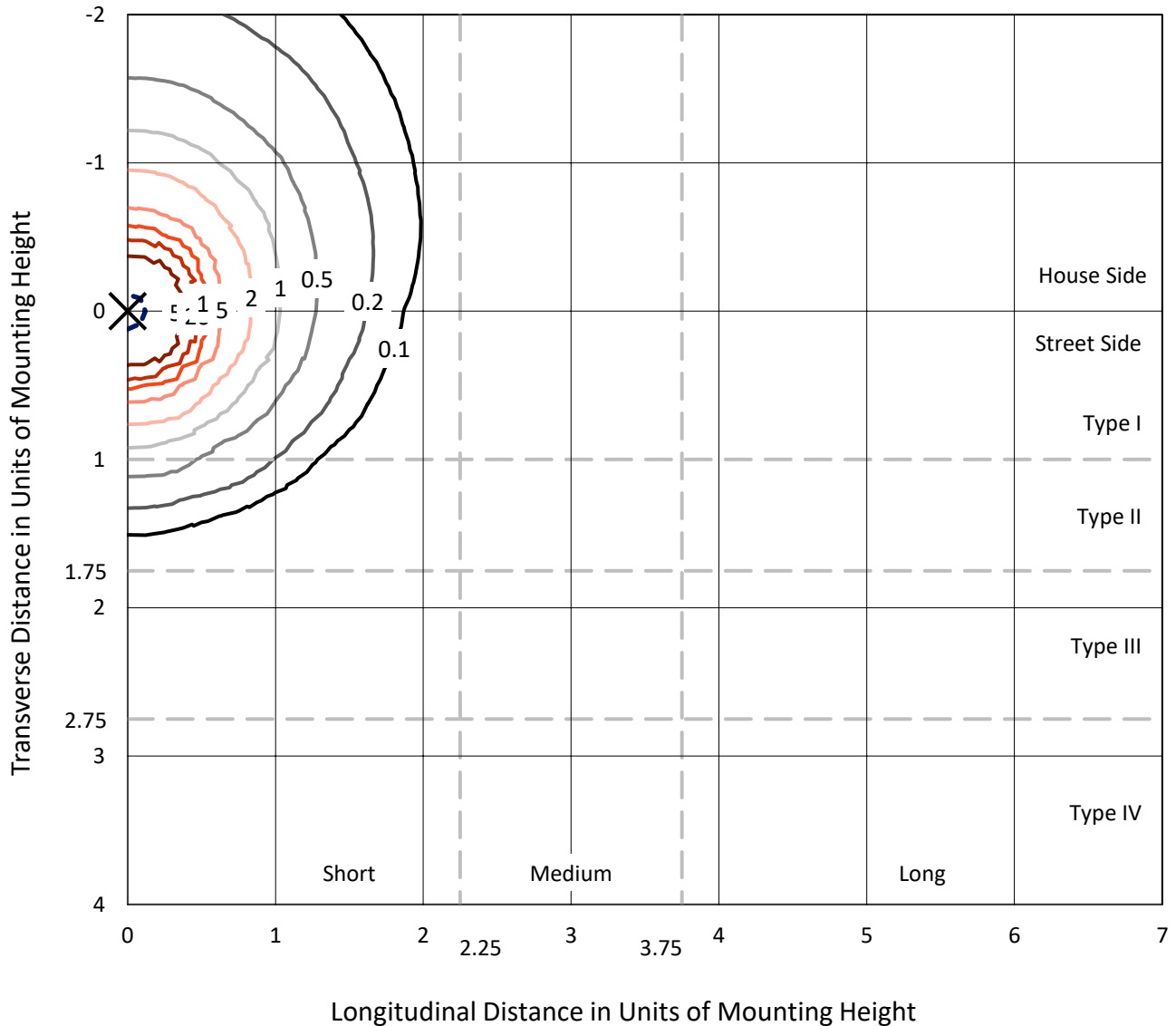
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

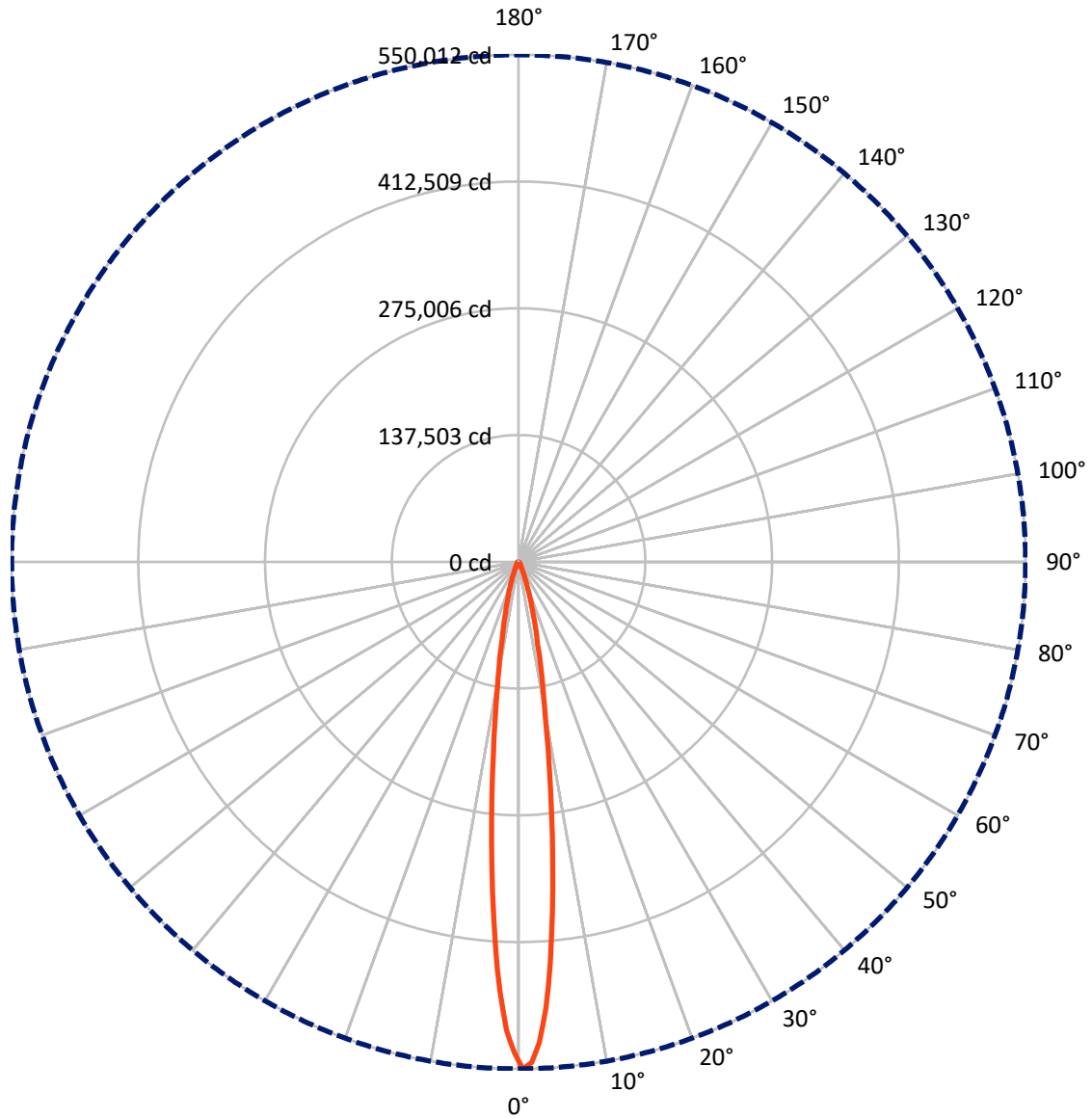
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1375 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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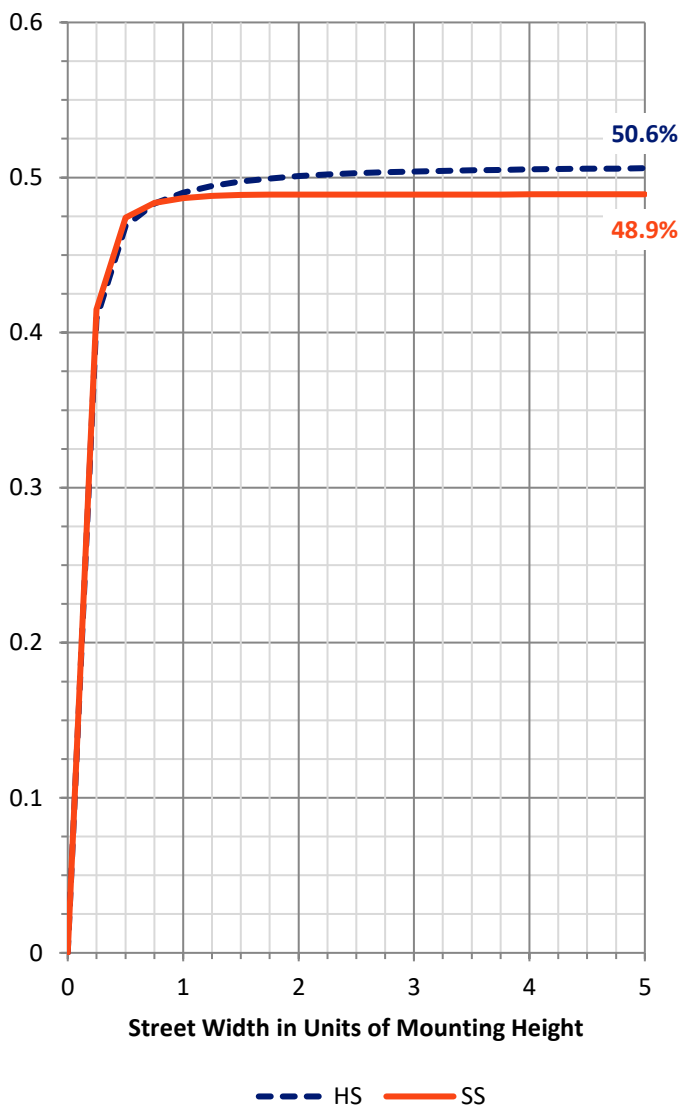
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	28359.9	0.0	28359.9
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	27010.9	0.0	27010.9
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	55370.8	0.0	55370.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27952.8	50.5
10°-20°	17895.3	32.3
20°-30°	5379.0	9.7
30°-40°	1751.4	3.2
40°-50°	1019.0	1.8
50°-60°	676.9	1.2
60°-70°	407.4	0.7
70°-80°	209.4	0.4
80°-90°	79.6	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°	55370.8	100.0
0°-180°	55370.8	100.0

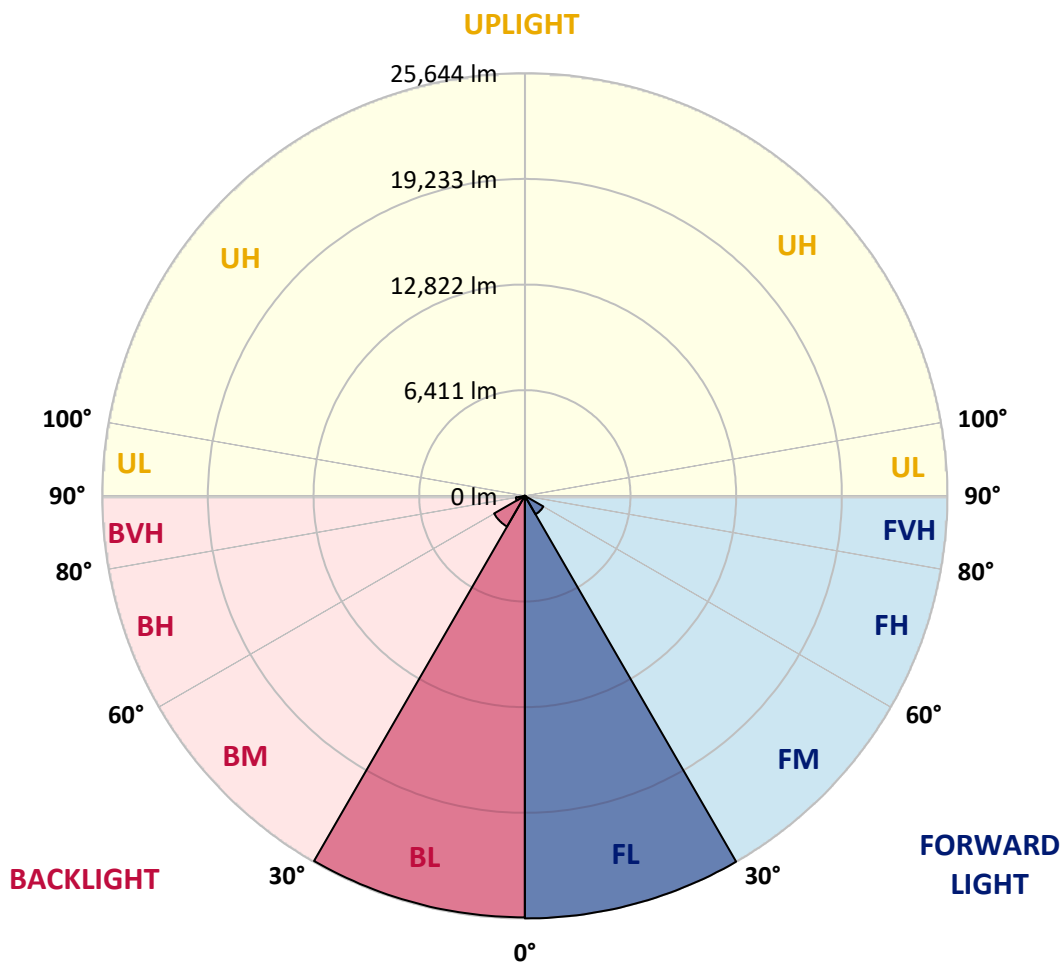


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	25643.9	46.3			
FM (30°-60°)	1294.0	2.3			
FH (60°-80°)	60.9	0.1			G0/660
FVH (80°-90°)	12.0	0.0			G1/100
BL (0°-30°)	25583.2	46.2	B5		
BM (30°-60°)	2153.2	3.9	B2/2500		
BH (60°-80°)	555.9	1.0	B2/1000		G0/660
BVH (80°-90°)	67.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	550011.6	550011.6	550011.6	550011.6	550011.6	550011.6	550011.6	550011.6	550011.6	550011.6
1°	543426.1	541767.6	537485.8	540531.3	543208.9	542431.0	542376.7	542087.2	541683.2	544855.3
2°	521703.2	520629.8	514297.5	516908.8	520714.2	517940.0	519676.9	518151.1	518181.3	521968.6
3°	485084.5	485669.4	475567.9	480314.1	485603.1	478878.8	480965.4	484885.4	480778.5	479542.2
4°	437489.7	432411.8	426893.6	431718.2	433087.2	429173.2	433020.9	437821.4	432116.3	432369.5
5°	383152.5	379401.4	372870.0	375849.2	372453.9	373690.2	379455.6	381433.7	377453.4	372441.9
6°	327283.5	324617.9	316452.2	320746.1	319540.0	318840.4	326119.6	320088.8	322259.9	319226.4
7°	272234.7	267253.3	263242.8	267355.8	267621.2	265516.4	274966.6	273869.0	269918.9	269002.2
8°	225550.5	220581.2	217185.9	220249.5	222251.7	218946.9	223391.5	226310.4	223222.7	223500.1
9°	181918.0	181043.5	176321.4	180325.9	182503.0	178962.9	183884.0	184939.4	182050.7	183455.8
10°	149369.9	148350.7	144581.5	146203.8	149810.2	145588.7	150310.7	150654.5	148350.7	149008.1
12.5°	92306.9	91896.8	91794.2	92029.4	91981.2	92729.0	93935.2	92560.2	92379.2	90105.6
15°	59662.3	60271.4	59644.2	60850.4	61025.3	61730.9	60995.1	59885.5	57768.7	56719.3
17.5°	37233.9	38011.9	39085.4	40852.4	42619.4	42824.5	41847.5	40544.8	39519.6	38397.9
20°	21421.3	21801.2	21638.4	23755.2	28326.5	29568.8	28308.4	26939.4	25703.1	24569.3
22.5°	13309.9	13171.2	13424.5	14136.1	15625.7	19467.3	18436.0	17067.1	16168.5	15233.7
25°	8159.6	8310.4	8213.9	8605.9	9275.3	10903.6	11138.8	10547.8	10089.5	9607.0
27.5°	5252.8	5252.8	5295.0	5512.1	5970.5	5916.2	7170.6	6712.2	6465.0	6229.8
30°	3648.6	3660.7	3660.7	3787.3	3889.8	3708.9	4034.6	4625.6	4511.0	4330.1
32.5°	2707.8	2744.0	2774.2	2840.5	2756.1	2563.1	2641.5	3329.0	3262.6	3196.3
35°	2062.5	2092.7	2165.0	2201.2	2080.6	1960.0	1887.6	2448.5	2478.6	2460.6
37.5°	1501.7	1519.8	1652.4	1791.1	1652.4	1543.9	1501.7	1881.6	2026.3	2008.2
40°	1151.9	1157.9	1182.0	1338.8	1338.8	1254.4	1266.5	1405.2	1658.5	1658.5
42.5°	989.0	989.0	1013.2	989.0	995.1	1085.5	1115.7	1133.8	1405.2	1405.2
45°	856.4	856.4	868.4	808.1	747.8	934.8	958.9	964.9	1182.0	1212.2
47.5°	717.7	717.7	741.8	663.4	633.2	741.8	808.1	826.2	1019.2	1043.3
50°	530.7	536.7	609.1	542.8	560.9	572.9	699.6	711.6	862.4	916.7
52.5°	355.8	355.8	367.9	422.2	488.5	470.4	566.9	609.1	687.5	759.9
55°	289.5	289.5	283.4	271.4	361.8	392.0	416.1	506.6	560.9	651.3
57.5°	199.0	211.1	193.0	223.1	235.2	295.5	313.6	398.0	428.2	548.8
60°	24.1	30.2	42.2	162.8	156.8	199.0	235.2	313.6	349.8	422.2
62.5°	6.0	6.0	12.1	30.2	108.6	132.7	187.0	217.1	253.3	325.7
65°	0.0	0.0	6.0	12.1	24.1	72.4	96.5	126.6	180.9	229.2
67.5°	0.0	0.0	6.0	12.1	12.1	30.2	48.2	78.4	96.5	168.9
70°	0.0	0.0	6.0	12.1	12.1	24.1	30.2	36.2	66.3	90.5
72.5°	0.0	0.0	6.0	12.1	18.1	24.1	30.2	30.2	30.2	60.3
75°	0.0	0.0	6.0	12.1	18.1	24.1	30.2	30.2	24.1	24.1
77.5°	0.0	0.0	6.0	12.1	24.1	30.2	36.2	30.2	18.1	18.1
80°	0.0	0.0	6.0	18.1	30.2	42.2	48.2	36.2	18.1	12.1
82.5°	0.0	0.0	12.1	24.1	36.2	48.2	66.3	54.3	24.1	12.1
85°	0.0	0.0	6.0	18.1	36.2	48.2	96.5	66.3	30.2	6.0
87.5°	0.0	0.0	0.0	6.0	6.0	12.1	36.2	24.1	12.1	6.0
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°
550011.6	0°	550011.6	550011.6	550011.6	550011.6	550011.6	550011.6	550011.6	550011.6
541194.7	1°	544976.0	545355.9	544113.6	546037.4	545361.9	541405.7	540097.1	538547.2
519743.2	2°	518151.1	520087.0	520183.5	522318.4	522288.2	517674.7	516245.4	518880.8
482051.0	3°	480591.5	482847.0	480814.7	484608.0	483468.2	477871.7	476418.2	479409.5
434371.8	4°	433075.1	432647.0	431947.4	429788.4	432447.9	428630.5	425753.8	429812.5
379087.8	5°	378327.9	377375.0	376012.1	375372.8	377350.9	374908.4	368992.3	374920.5
324714.4	6°	325112.4	321011.5	320812.5	320456.7	320655.7	313816.8	314226.9	318641.4
265848.1	7°	268658.4	269412.3	267874.4	270341.0	268459.4	263827.8	262042.7	266692.4
224718.3	8°	223150.3	222197.4	221021.4	224706.2	221443.6	218404.1	216323.5	219996.2
183685.0	9°	183341.2	181694.8	180500.7	180313.8	180820.4	175115.3	176273.2	179053.4
149369.9	10°	149424.2	146722.4	147379.8	147554.7	146999.9	143260.8	143297.0	144255.9
91613.3	12.5°	91287.7	89960.9	90292.6	90473.5	91601.3	90286.6	88429.1	87090.3
57762.7	15°	57376.7	56423.8	58371.8	59680.4	59415.1	58245.1	57370.7	56158.5
38397.9	17.5°	38042.1	39290.4	39296.5	40490.5	40611.2	39441.2	38765.7	37674.2
24973.4	20°	24882.9	25401.6	26481.1	27325.4	27813.9	26921.3	26113.2	25365.4
15571.4	22.5°	15571.4	16476.0	17151.5	18249.1	18695.4	18044.0	17471.1	16862.0
9721.6	25°	9558.8	10204.1	10764.9	11717.8	12326.9	12013.3	11488.6	11060.4
6278.0	27.5°	6374.5	6645.9	6923.3	7580.7	8213.9	8039.0	7827.9	7568.6
4426.6	30°	4492.9	4517.0	4812.5	5180.4	5602.6	5711.1	5614.6	5482.0
3250.6	32.5°	3310.9	3407.4	3546.1	3775.3	4058.7	4318.0	4269.8	4209.5
2484.7	35°	2557.0	2701.8	2816.4	2991.3	3142.0	3389.3	3431.5	3413.4
2044.4	37.5°	2086.6	2213.3	2327.9	2430.4	2557.0	2725.9	2858.6	2864.6
1688.6	40°	1730.8	1845.4	1996.2	2074.6	2165.0	2291.7	2454.5	2466.6
1429.3	42.5°	1459.4	1568.0	1718.8	1815.3	1881.6	2002.2	2165.0	2189.2
1224.2	45°	1254.4	1320.7	1477.5	1592.1	1658.5	1736.9	1911.8	1935.9
1055.4	47.5°	1091.6	1157.9	1254.4	1417.2	1477.5	1549.9	1688.6	1730.8
934.8	50°	958.9	1025.2	1109.7	1254.4	1344.9	1405.2	1519.8	1580.1
814.2	52.5°	850.3	916.7	1007.1	1121.7	1224.2	1278.5	1387.1	1465.5
663.4	55°	711.6	826.2	892.6	995.1	1133.8	1182.0	1266.5	1369.0
579.0	57.5°	621.2	717.7	814.2	898.6	1037.3	1097.6	1182.0	1278.5
458.3	60°	524.7	615.1	729.7	802.1	934.8	1013.2	1103.6	1194.1
349.8	62.5°	416.1	536.7	615.1	717.7	844.3	946.8	1019.2	1109.7
271.4	65°	307.6	440.2	530.7	639.3	759.9	868.4	928.7	1025.2
193.0	67.5°	223.1	343.8	452.3	554.8	669.4	778.0	838.3	922.7
120.6	70°	174.9	253.3	373.9	464.4	585.0	675.4	741.8	796.1
78.4	72.5°	102.5	193.0	301.5	404.1	512.6	572.9	621.2	669.4
36.2	75°	66.3	150.8	247.3	337.7	416.1	470.4	512.6	554.8
18.1	77.5°	42.2	108.6	199.0	283.4	319.6	386.0	422.2	446.3
12.1	80°	24.1	84.4	174.9	229.2	259.3	301.5	337.7	367.9
12.1	82.5°	18.1	72.4	144.7	193.0	193.0	241.2	259.3	259.3
6.0	85°	12.1	60.3	114.6	180.9	144.7	180.9	168.9	168.9
6.0	87.5°	12.1	42.2	54.3	78.4	66.3	78.4	78.4	90.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
550011.6  
532407.9  
507717.9  
466123.7  
415121.6  
359300.8  
305844.1  
254045.9  
209508.7  
170369.1  
137730.6  
86276.1  
55537.3  
37402.8  
25106.1  
16536.4  
10813.2  
7417.8  
5391.5  
4161.2  
3353.1  
2822.4  
2448.5  
2171.1  
1929.8  
1736.9  
1586.1  
1465.5  
1375.0  
1284.6  
1218.2  
1151.9  
1043.3  
928.7  
814.2  
681.5  
554.8  
434.2  
331.7  
241.2  
162.8  
90.5  
0.0

(END OF REPORT)