

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: P638579

Luminaire Tested: **EPH-VN-07-E-740-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638579
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-740-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56139.9 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

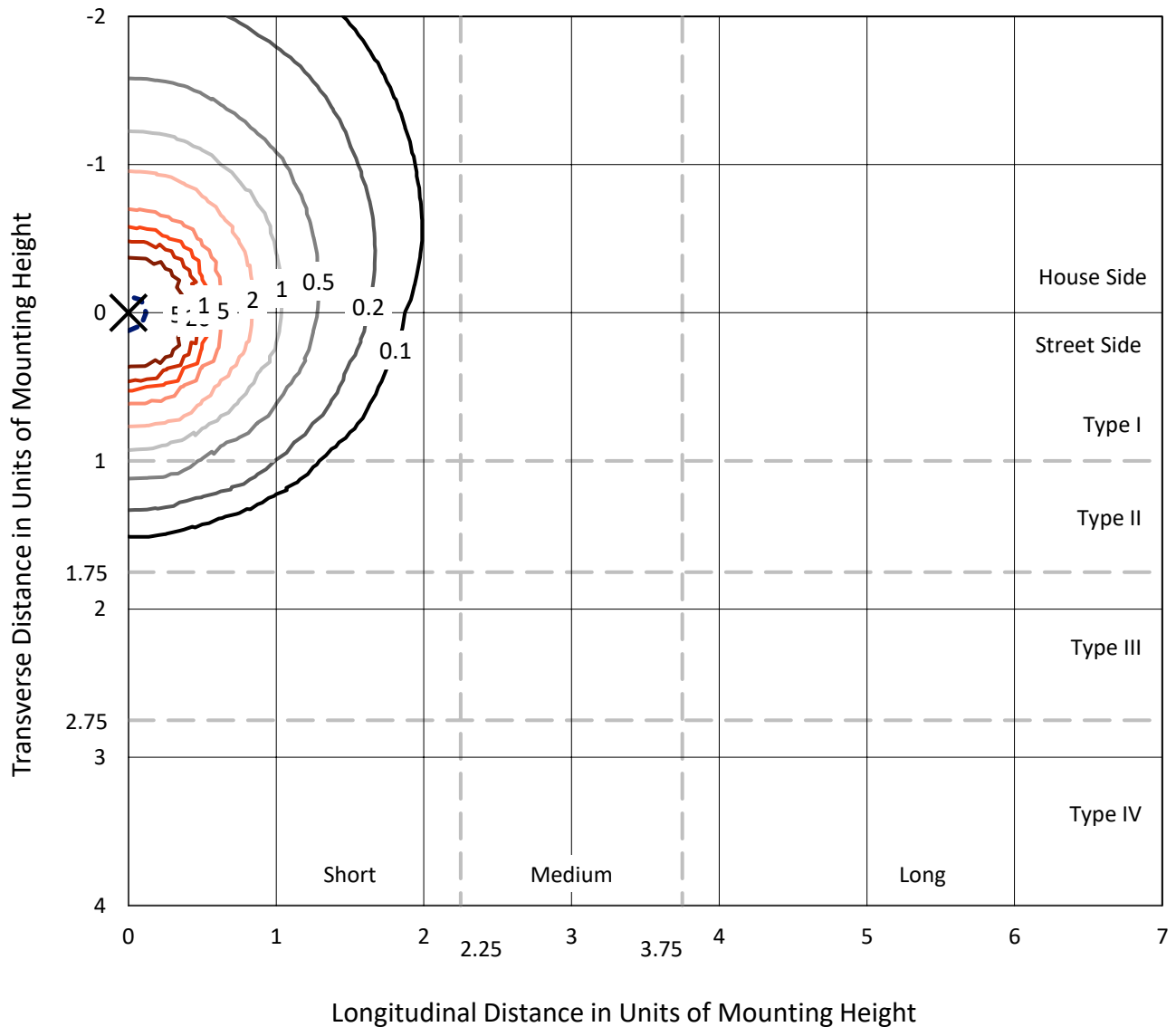
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

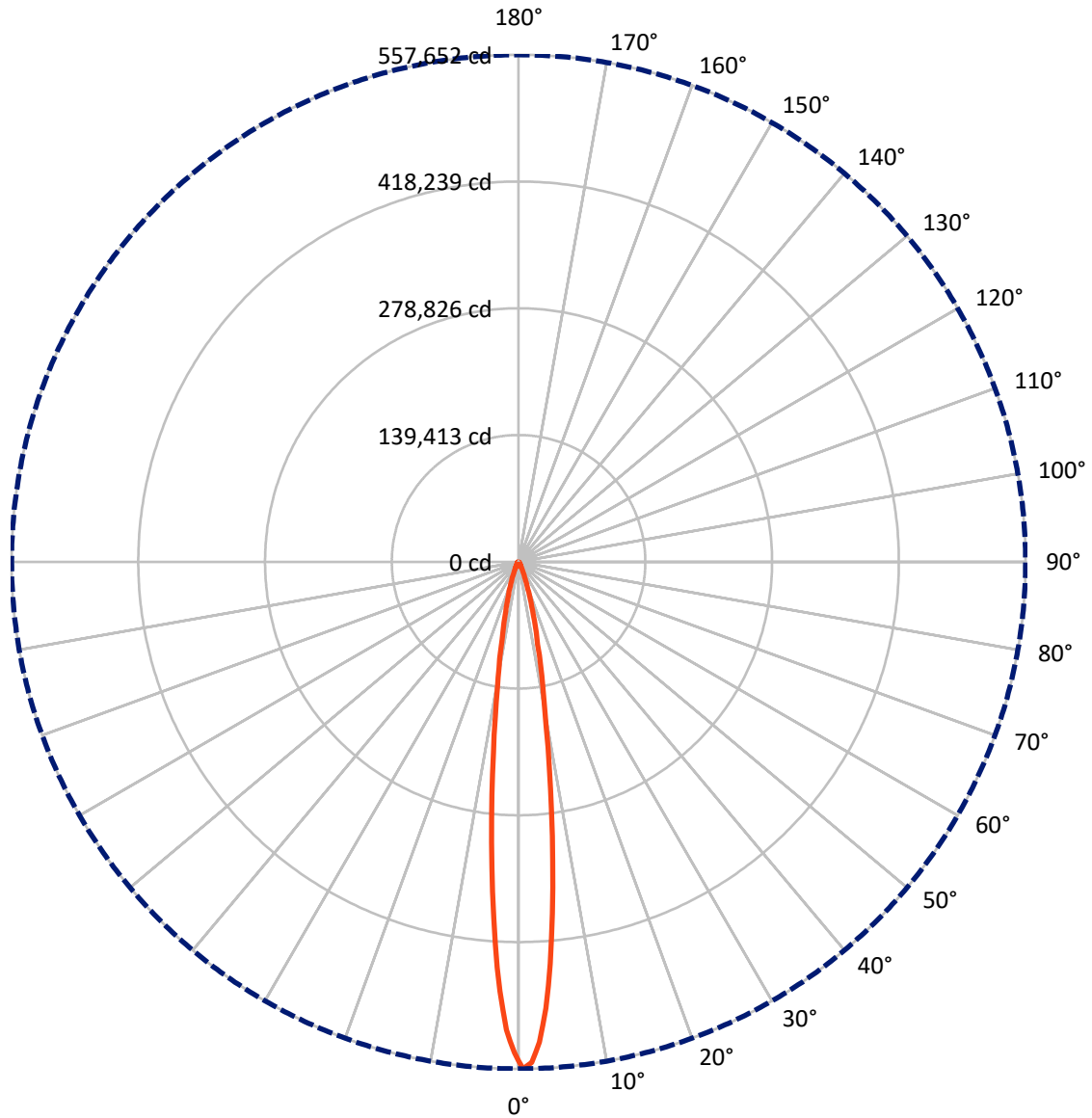
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1394.1 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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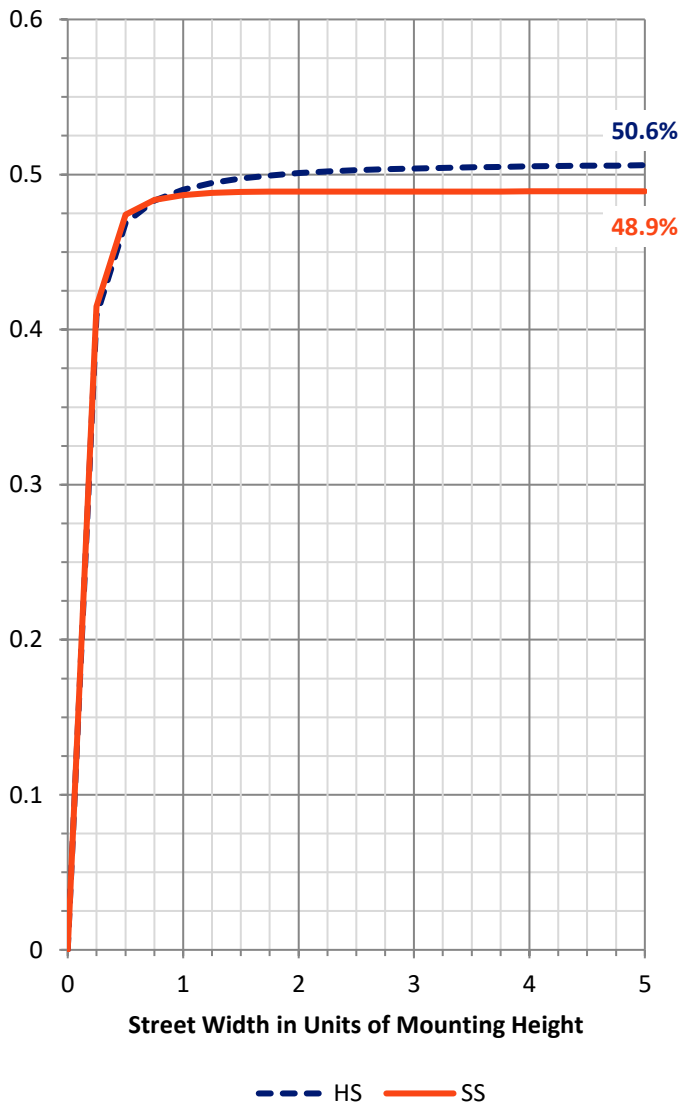
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28753.8	0.0	28753.8
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	27386.1	0.0	27386.1
	% Fixture	48.8	0.0	48.8
Total	Lumens	56139.9	0.0	56139.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28341.1	50.5
10°-20°	18143.9	32.3
20°-30°	5453.7	9.7
30°-40°	1775.7	3.2
40°-50°	1033.2	1.8
50°-60°	686.3	1.2
60°-70°	413.1	0.7
70°-80°	212.3	0.4
80°-90°	80.7	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°	56139.9	100.0
0°-180°	56139.9	100.0

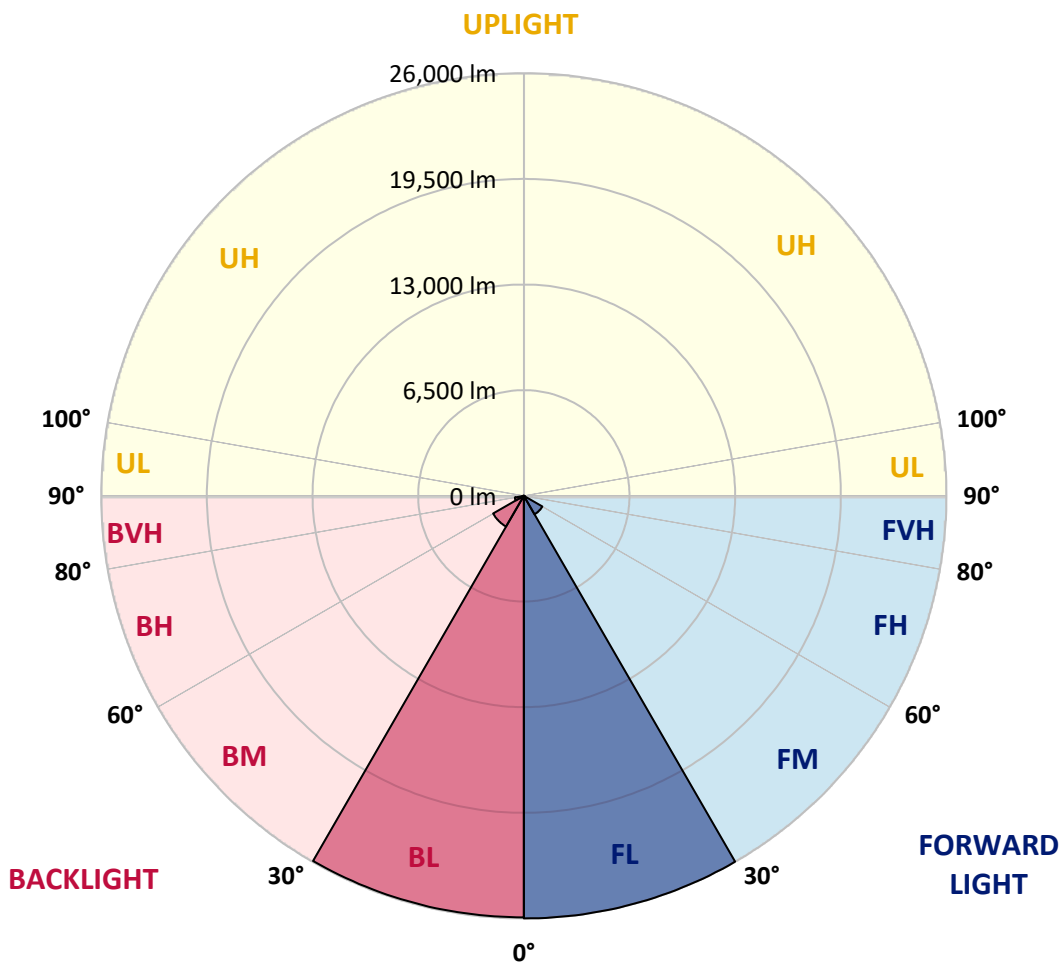


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	26000.1	46.3			
FM (30°-60°)	1312.0	2.3			
FH (60°-80°)	61.8	0.1			G0/660
FVH (80°-90°)	12.2	0.0			G1/100
BL (0°-30°)	25938.5	46.2	B5		
BM (30°-60°)	2183.2	3.9	B2/2500		
BH (60°-80°)	563.7	1.0	B2/1000		G0/660
BVH (80°-90°)	68.5	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°	557651.5	557651.5	557651.5	557651.5	557651.5	557651.5	557651.5	557651.5	557651.5	557651.5
1°	550974.4	549292.9	544951.6	548039.4	550754.3	549965.5	549910.5	549617.0	549207.3	552423.5
2°	528949.9	527861.5	521441.2	524088.8	527947.1	525134.4	526895.4	525348.4	525379.0	529218.9
3°	491822.4	492415.5	482173.7	486985.8	492348.3	485530.6	487646.2	491620.6	487456.6	486203.2
4°	443566.5	438418.1	432823.3	437714.9	439102.9	435134.6	439035.7	443902.8	438118.5	438375.3
5°	388474.6	384671.4	378049.3	381069.9	377627.4	378880.9	384726.4	386731.9	382696.4	377615.2
6°	331829.6	329126.9	320847.9	325201.4	323978.5	323269.2	330649.5	324534.9	326736.2	323660.5
7°	276016.1	270965.5	266899.3	271069.5	271338.5	269204.5	278786.0	277673.1	273668.1	272738.7
8°	228683.5	223645.1	220202.7	223308.8	225338.9	221988.1	226494.5	229453.9	226323.3	226604.6
9°	184444.9	183558.3	178770.6	182830.6	185038.0	181448.8	186438.2	187508.3	184579.4	186004.1
10°	151444.7	150411.4	146589.8	148234.6	151891.1	147610.9	152398.6	152747.1	150411.4	151077.9
12.5°	93589.0	93173.2	93069.3	93307.8	93258.8	94017.1	95240.0	93845.8	93662.4	91357.2
15°	60491.1	61108.6	60472.7	61695.6	61873.0	62588.4	61842.4	60717.3	58571.1	57507.2
17.5°	37751.1	38539.9	39628.3	41419.8	43211.4	43419.3	42428.7	41108.0	40068.5	38931.2
20°	21718.8	22104.0	21938.9	24085.1	28720.0	29979.6	28701.6	27313.6	26060.1	24910.6
22.5°	13494.8	13354.1	13610.9	14332.5	15842.8	19737.7	18692.1	17304.1	16393.1	15445.3
25°	8273.0	8425.8	8328.0	8725.4	9404.2	11055.1	11293.5	10694.3	10229.6	9740.5
27.5°	5325.8	5325.8	5368.6	5588.7	6053.4	5998.4	7270.2	6805.5	6554.8	6316.3
30°	3699.3	3711.5	3711.5	3839.9	3943.9	3760.4	4090.6	4689.8	4573.7	4390.2
32.5°	2745.4	2782.1	2812.7	2879.9	2794.3	2598.7	2678.2	3375.2	3308.0	3240.7
35°	2091.2	2121.7	2195.1	2231.8	2109.5	1987.2	1913.8	2482.5	2513.1	2494.7
37.5°	1522.5	1540.9	1675.4	1816.0	1675.4	1565.3	1522.5	1907.7	2054.5	2036.1
40°	1167.9	1174.0	1198.4	1357.4	1357.4	1271.8	1284.1	1424.7	1681.5	1681.5
42.5°	1002.8	1002.8	1027.2	1002.8	1008.9	1100.6	1131.2	1149.5	1424.7	1424.7
45°	868.3	868.3	880.5	819.3	758.2	947.8	972.2	978.3	1198.4	1229.0
47.5°	727.6	727.6	752.1	672.6	642.0	752.1	819.3	837.7	1033.4	1057.8
50°	538.1	544.2	617.6	550.3	568.7	580.9	709.3	721.5	874.4	929.4
52.5°	360.8	360.8	373.0	428.0	495.3	476.9	574.8	617.6	697.1	770.4
55°	293.5	293.5	287.4	275.2	366.9	397.4	421.9	513.6	568.7	660.4
57.5°	201.8	214.0	195.7	226.2	238.5	299.6	318.0	403.6	434.1	556.4
60°	24.5	30.6	42.8	165.1	159.0	201.8	238.5	318.0	354.6	428.0
62.5°	6.1	6.1	12.2	30.6	110.1	134.5	189.6	220.1	256.8	330.2
65°	0.0	0.0	6.1	12.2	24.5	73.4	97.8	128.4	183.4	232.4
67.5°	0.0	0.0	6.1	12.2	12.2	30.6	48.9	79.5	97.8	171.2
70°	0.0	0.0	6.1	12.2	12.2	24.5	30.6	36.7	67.3	91.7
72.5°	0.0	0.0	6.1	12.2	18.3	24.5	30.6	30.6	30.6	61.1
75°	0.0	0.0	6.1	12.2	18.3	24.5	30.6	30.6	24.5	24.5
77.5°	0.0	0.0	6.1	12.2	24.5	30.6	36.7	30.6	18.3	18.3
80°	0.0	0.0	6.1	18.3	30.6	42.8	48.9	36.7	18.3	12.2
82.5°	0.0	0.0	12.2	24.5	36.7	48.9	67.3	55.0	24.5	12.2
85°	0.0	0.0	6.1	18.3	36.7	48.9	97.8	67.3	30.6	6.1
87.5°	0.0	0.0	0.0	6.1	6.1	12.2	36.7	24.5	12.2	6.1
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°
557651.5	0°	557651.5	557651.5	557651.5	557651.5	557651.5	557651.5	557651.5	557651.5
548712.0	1°	552545.8	552931.1	551671.5	553622.0	552937.2	548926.0	547599.2	546027.7
526962.6	2°	525348.4	527311.2	527409.0	529573.5	529543.0	524865.4	523416.2	526088.3
488746.8	3°	487267.1	489553.9	487493.3	491339.4	490183.7	484509.4	483035.8	486068.6
440405.3	4°	439090.7	438656.6	437947.3	435758.3	438454.8	434584.3	431667.6	435782.7
384353.4	5°	383583.0	382616.9	381235.0	380586.8	382592.4	380116.0	374117.7	380128.3
329224.8	6°	329628.3	325470.4	325268.7	324907.9	325109.7	318175.8	318591.6	323067.4
269540.8	7°	272390.2	273154.5	271595.3	274096.1	272188.4	267492.5	265682.5	270396.9
227839.7	8°	226249.9	225283.8	224091.5	227827.5	224519.5	221437.8	219328.3	223052.0
186236.4	9°	185887.9	184218.6	183008.0	182818.4	183332.0	177547.7	178721.7	181540.5
151444.7	10°	151499.8	148760.5	149426.9	149604.3	149041.7	145250.7	145287.4	146259.6
92885.9	12.5°	92555.7	91210.5	91546.8	91730.2	92873.6	91540.7	89657.4	88300.0
58565.0	15°	58173.7	57207.6	59182.6	60509.4	60240.4	59054.2	58167.5	56938.5
38931.2	17.5°	38570.5	39836.2	39842.3	41053.0	41175.3	39989.0	39304.2	38197.5
25320.3	20°	25228.6	25754.4	26848.9	27704.9	28200.2	27295.3	26475.9	25717.7
15787.7	22.5°	15787.7	16704.9	17389.7	18502.6	18955.1	18294.7	17713.8	17096.2
9856.6	25°	9691.5	10345.8	10914.4	11880.5	12498.1	12180.1	11648.2	11214.1
6365.2	27.5°	6463.1	6738.2	7019.5	7686.0	8328.0	8150.7	7936.7	7673.7
4488.1	30°	4555.3	4579.8	4879.4	5252.4	5680.4	5790.5	5692.6	5558.1
3295.7	32.5°	3356.9	3454.7	3595.3	3827.7	4115.1	4378.0	4329.1	4267.9
2519.2	35°	2592.6	2739.3	2855.5	3032.8	3185.7	3436.4	3479.2	3460.8
2072.8	37.5°	2115.6	2244.0	2360.2	2464.2	2592.6	2763.8	2898.3	2904.4
1712.1	40°	1754.9	1871.0	2023.9	2103.4	2195.1	2323.5	2488.6	2500.8
1449.1	42.5°	1479.7	1589.8	1742.6	1840.5	1907.7	2030.0	2195.1	2219.6
1241.3	45°	1271.8	1339.1	1498.1	1614.2	1681.5	1761.0	1938.3	1962.8
1070.0	47.5°	1106.7	1174.0	1271.8	1436.9	1498.1	1571.4	1712.1	1754.9
947.8	50°	972.2	1039.5	1125.1	1271.8	1363.5	1424.7	1540.9	1602.0
825.5	52.5°	862.1	929.4	1021.1	1137.3	1241.3	1296.3	1406.3	1485.8
672.6	55°	721.5	837.7	905.0	1008.9	1149.5	1198.4	1284.1	1388.0
587.0	57.5°	629.8	727.6	825.5	911.1	1051.7	1112.8	1198.4	1296.3
464.7	60°	532.0	623.7	739.9	813.2	947.8	1027.2	1119.0	1210.7
354.6	62.5°	421.9	544.2	623.7	727.6	856.0	960.0	1033.4	1125.1
275.2	65°	311.8	446.4	538.1	648.1	770.4	880.5	941.6	1039.5
195.7	67.5°	226.2	348.5	458.6	562.5	678.7	788.8	849.9	935.5
122.3	70°	177.3	256.8	379.1	470.8	593.1	684.8	752.1	807.1
79.5	72.5°	103.9	195.7	305.7	409.7	519.7	580.9	629.8	678.7
36.7	75°	67.3	152.9	250.7	342.4	421.9	476.9	519.7	562.5
18.3	77.5°	42.8	110.1	201.8	287.4	324.1	391.3	428.0	452.5
12.2	80°	24.5	85.6	177.3	232.4	262.9	305.7	342.4	373.0
12.2	82.5°	18.3	73.4	146.7	195.7	195.7	244.6	262.9	262.9
6.1	85°	12.2	61.1	116.2	183.4	146.7	183.4	171.2	171.2
6.1	87.5°	12.2	42.8	55.0	79.5	67.3	79.5	79.5	91.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
557651.5
539803.2
514770.3
472598.3
420887.7
364291.6
310092.4
257574.7
212418.9
172735.5
139643.7
87474.5
56308.7
37922.3
25454.8
16766.0
10963.4
7520.9
5466.4
4219.0
3399.7
2861.6
2482.5
2201.2
1956.7
1761.0
1608.1
1485.8
1394.1
1302.4
1235.1
1167.9
1057.8
941.6
825.5
690.9
562.5
440.2
336.3
244.6
165.1
91.7
0.0

(END OF REPORT)