

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: P638689

Luminaire Tested: **EPH-VN-08-E-740-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638689
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-740-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64312.6 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

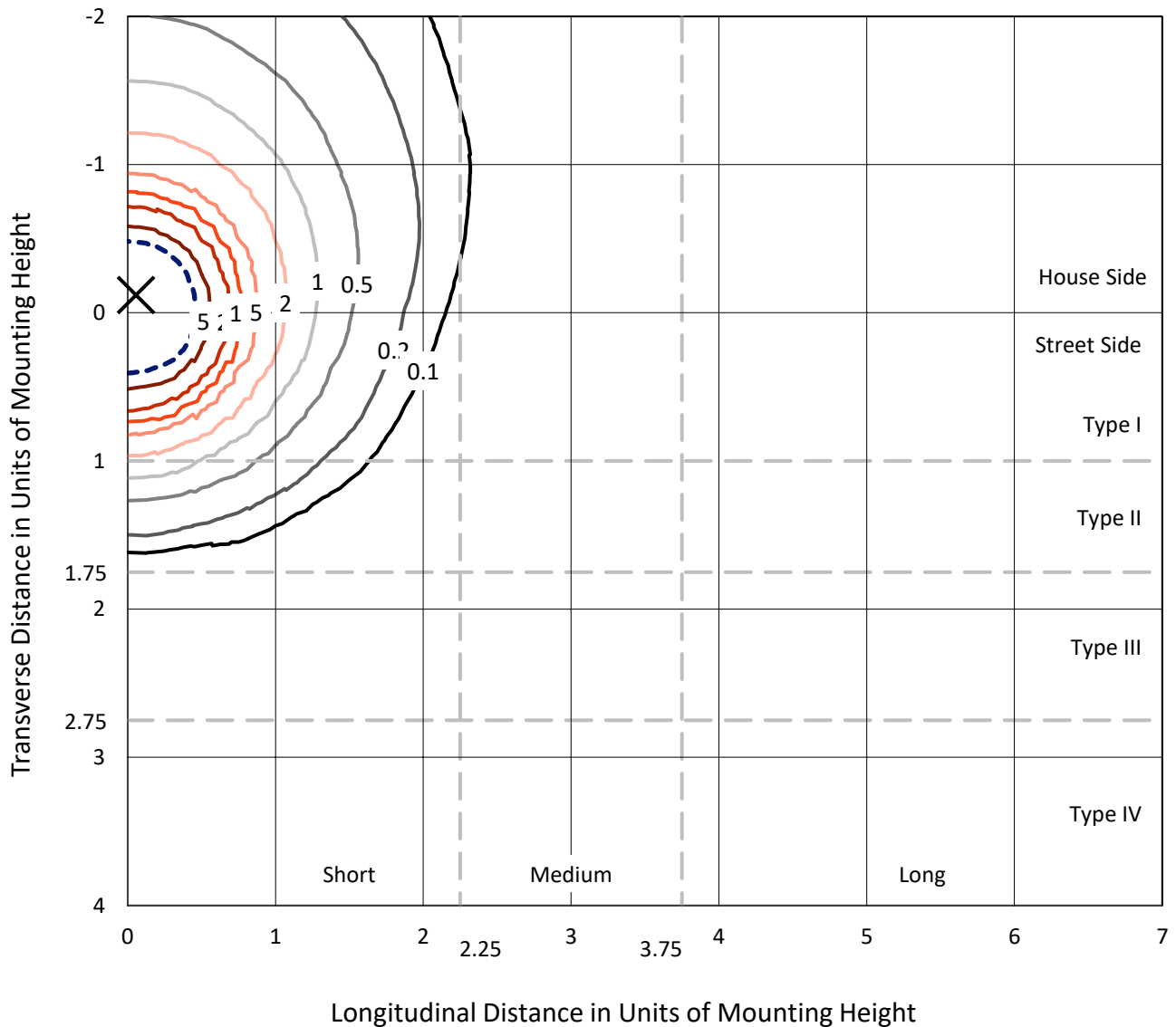
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

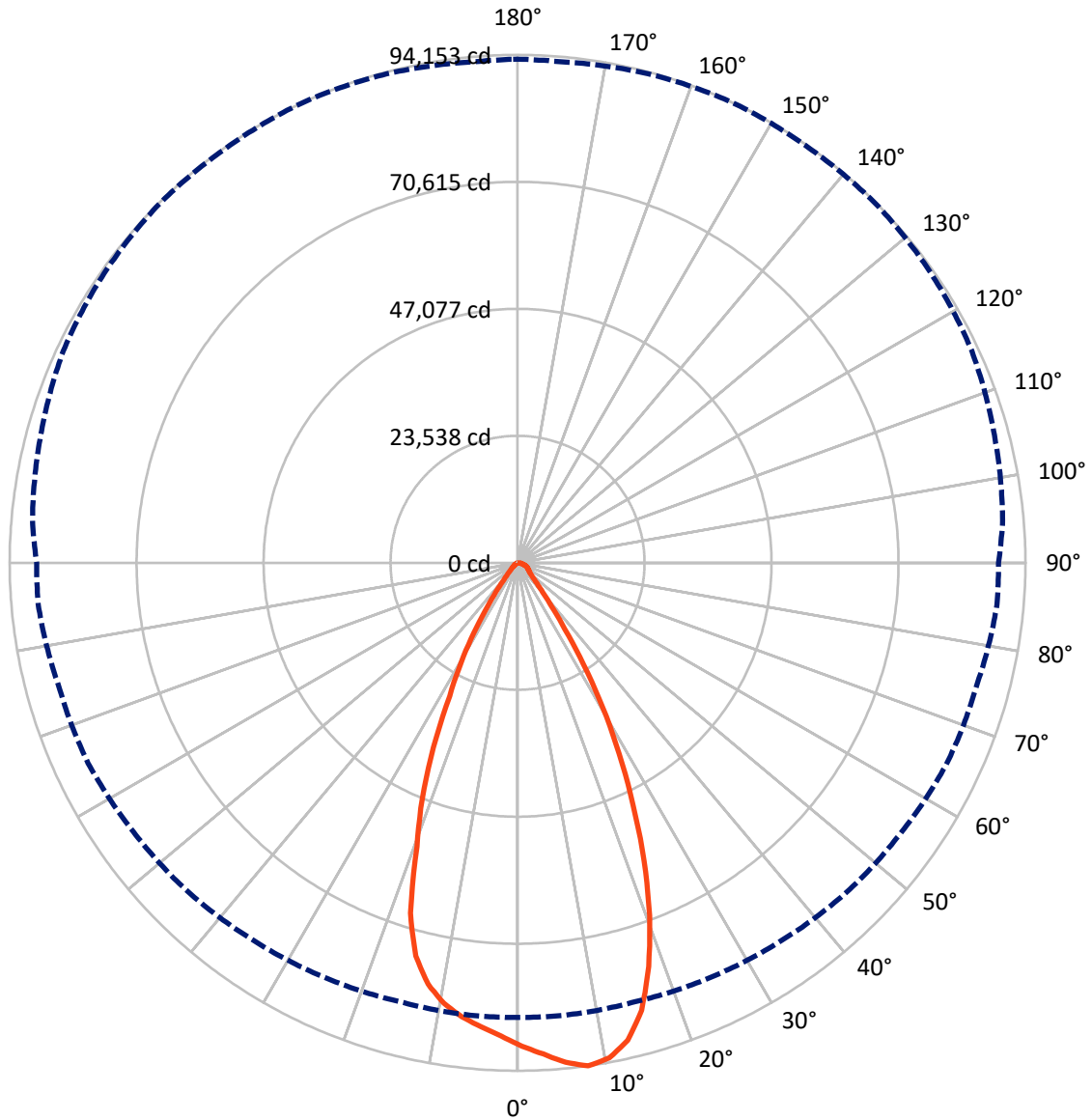
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 227.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

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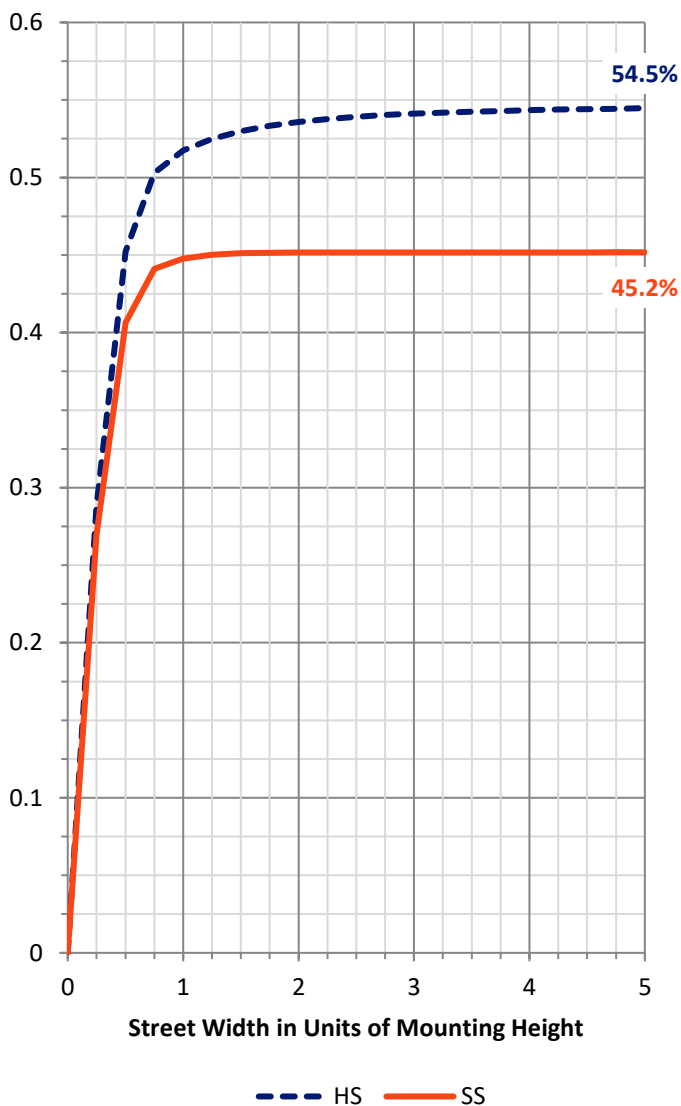
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	35502.9	0.0	35502.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	28809.7	0.0	28809.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	64312.6	0.0	64312.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8543.2	13.3
10°-20°	22152.6	34.4
20°-30°	20298.0	31.6
30°-40°	8200.4	12.8
40°-50°	2405.6	3.7
50°-60°	1345.0	2.1
60°-70°	816.9	1.3
70°-80°	415.1	0.6
80°-90°	135.8	0.2
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°	64312.6	100.0
0°-180°	64312.6	100.0



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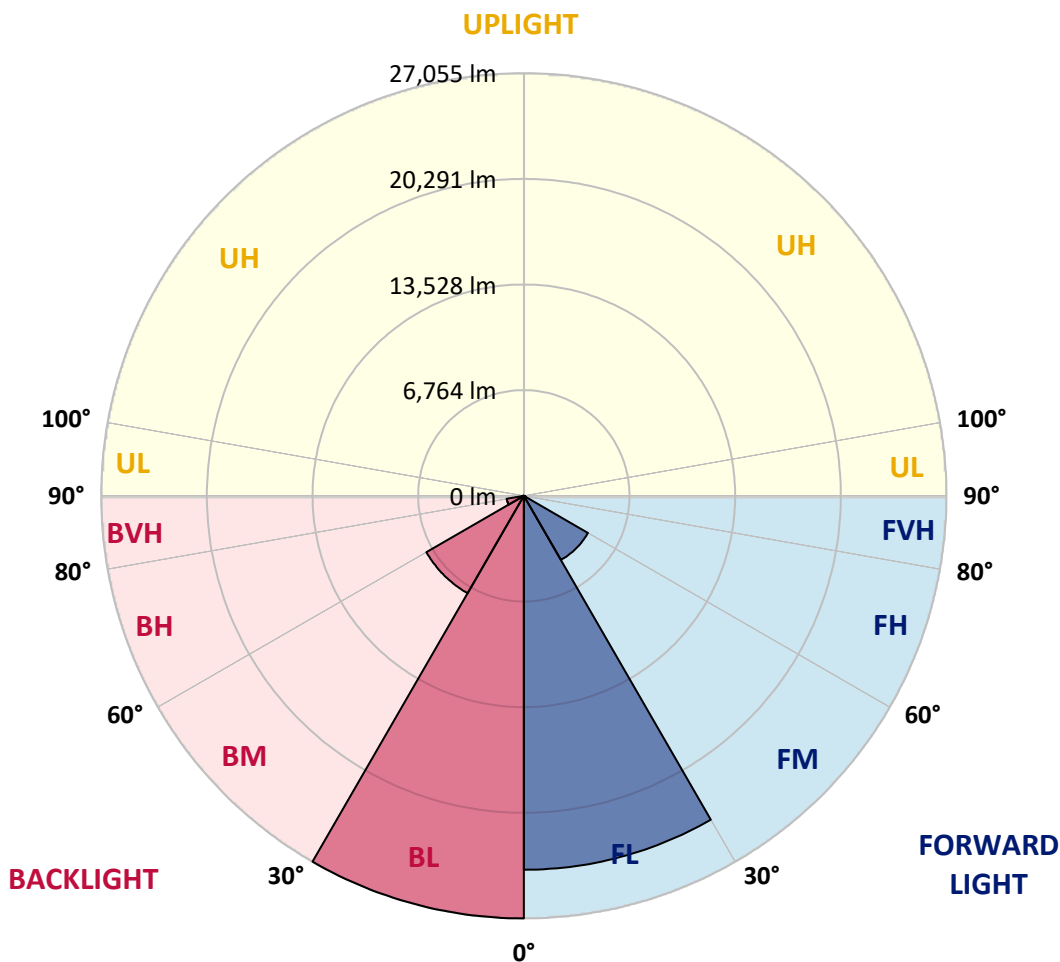
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	23938.8	37.2			
FM (30°-60°)	4744.2	7.4			
FH (60°-80°)	114.9	0.2			G0/660
FVH (80°-90°)	11.8	0.0			G1/100
BL (0°-30°)	27055.0	42.1	B5		
BM (30°-60°)	7206.8	11.2	B4/8500		
BH (60°-80°)	1117.1	1.7	B3/2500		G3/2500
BVH (80°-90°)	124.0	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	89592.4	89592.4	89592.4	89592.4	89592.4	89592.4	89592.4	89592.4	89592.4	89592.4
2.5°	87649.5	87946.1	87352.8	87745.9	88049.9	88776.7	88836.0	89088.2	89177.1	89837.2
5°	85988.3	86218.2	85736.1	86262.7	86692.8	87338.0	87834.8	88532.0	88917.6	89696.3
7.5°	84260.3	84312.3	84215.9	84772.1	85417.2	86307.2	86922.7	87834.8	88072.2	89184.6
10°	82169.0	81790.8	81976.2	82792.0	83756.1	85120.6	85543.3	86455.5	86878.2	88012.8
12.5°	78831.9	79024.7	78794.8	79833.0	80633.9	82183.9	82628.8	83548.4	84356.8	85357.9
15°	74130.1	74018.9	74486.1	75294.4	76162.1	77393.2	78112.5	79113.7	79729.2	80767.4
17.5°	63562.4	63940.6	65868.7	67893.3	69673.1	71111.8	71972.1	72802.7	73247.6	74374.8
20°	54893.1	54418.5	54678.0	55820.1	60885.2	63087.7	63992.5	64192.7	64378.1	65268.0
22.5°	45200.4	45044.7	45912.3	47195.3	48396.7	53476.6	54707.7	54240.5	54626.1	55464.1
25°	33564.7	34350.8	35122.1	37584.2	39141.5	41633.3	43969.3	44177.0	44317.9	44844.4
27.5°	27320.5	27046.1	27031.2	27720.9	30019.9	32096.4	34083.8	34543.6	34462.1	34966.3
30°	21476.7	21387.7	21076.2	21239.4	21009.5	22856.0	23790.5	25681.5	25577.7	25592.5
32.5°	15492.0	15158.3	15032.2	15276.9	15039.6	14869.0	15684.8	17820.6	17783.5	17931.8
35°	9373.8	9329.3	9433.1	9648.2	9173.6	9158.7	9329.3	11339.0	11583.8	11821.1
37.5°	5176.4	5131.9	5213.4	6006.9	5851.2	5710.3	5754.8	6815.3	7519.8	7697.8
40°	3411.4	3403.9	3463.3	3604.2	3871.1	3819.2	3841.5	4316.1	4983.5	5139.3
42.5°	2284.1	2291.5	2328.6	2491.8	2528.8	2795.8	2751.3	2862.6	3485.5	3619.0
45°	1824.3	1816.9	1839.2	1765.0	1809.5	2083.9	2113.6	2121.0	2654.9	2736.5
47.5°	1438.7	1438.7	1460.9	1364.5	1342.3	1512.9	1668.6	1690.8	2121.0	2232.2
50°	1008.6	1008.6	1119.8	1075.3	1127.2	1179.1	1349.7	1372.0	1735.3	1854.0
52.5°	741.6	756.4	771.3	778.7	949.2	941.8	1090.1	1194.0	1312.6	1520.3
55°	563.6	578.4	541.4	578.4	704.5	786.1	815.8	964.1	1045.7	1275.5
57.5°	370.8	407.9	378.2	445.0	474.6	608.1	652.6	793.5	845.4	1045.7
60°	51.9	59.3	96.4	311.5	333.7	400.5	504.3	630.4	682.3	852.8
62.5°	7.4	7.4	22.2	51.9	222.5	267.0	378.2	437.5	504.3	637.8
65°	0.0	0.0	7.4	14.8	44.5	155.7	192.8	237.3	348.6	459.8
67.5°	0.0	0.0	7.4	14.8	22.2	51.9	81.6	155.7	200.2	318.9
70°	0.0	0.0	7.4	14.8	22.2	29.7	44.5	59.3	118.7	185.4
72.5°	0.0	0.0	7.4	14.8	22.2	29.7	37.1	44.5	51.9	118.7
75°	0.0	0.0	7.4	14.8	22.2	37.1	44.5	44.5	44.5	51.9
77.5°	0.0	0.0	7.4	14.8	29.7	44.5	51.9	44.5	37.1	37.1
80°	0.0	0.0	7.4	22.2	37.1	51.9	59.3	44.5	29.7	22.2
82.5°	0.0	0.0	7.4	22.2	37.1	51.9	59.3	51.9	29.7	22.2
85°	0.0	0.0	7.4	22.2	29.7	37.1	59.3	51.9	29.7	14.8
87.5°	0.0	0.0	0.0	7.4	7.4	14.8	29.7	22.2	14.8	7.4
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°
89592.4	0°	89592.4	89592.4	89592.4	89592.4	89592.4	89592.4	89592.4	89592.4	89592.4
89822.3	2.5°	90489.8	90823.5	91409.4	91572.5	92076.8	91498.3	91179.5	91209.1	90519.4
89599.9	5°	90489.8	91253.6	92277.0	92766.5	93137.3	93107.6	93026.0	92818.4	92314.1
89154.9	7.5°	90252.5	91498.3	92907.4	93560.0	94004.9	93967.9	94153.3	93819.5	93204.0
88361.4	10°	89488.6	90571.3	92306.7	92840.6	93560.0	93574.8	93344.9	93411.7	92314.1
85461.7	12.5°	87085.8	87931.3	89451.5	90059.6	90934.7	91075.6	90823.5	90727.1	89688.8
80708.1	15°	82436.0	82925.5	84453.2	85061.3	85928.9	85810.3	86062.4	85958.6	85046.4
74285.9	17.5°	75635.6	75791.3	77393.2	77904.9	78720.6	79039.5	78661.3	79143.3	78357.2
65423.8	20°	65883.6	66721.6	68523.6	69309.7	69784.4	70355.4	69858.5	70399.9	69480.3
54670.6	22.5°	55990.6	56487.5	58119.0	59253.7	60136.2	60247.4	60062.0	60440.2	59201.8
45193.0	25°	45185.6	46008.7	47299.1	48782.3	49650.0	50183.9	49701.9	49946.6	49746.4
35047.9	27.5°	35641.2	36375.4	37346.9	38451.8	39757.1	40454.2	40068.5	40483.8	39504.9
26133.9	30°	26156.2	26527.0	27624.5	28796.2	30227.5	31073.0	31110.0	31532.7	30954.3
18310.1	32.5°	18443.5	18769.8	19444.7	20223.4	21587.9	22529.7	22381.4	22440.8	22084.8
11932.3	35°	11991.6	12429.2	12911.2	13282.0	14105.2	15143.4	15061.9	14987.7	14743.0
7846.1	37.5°	8016.7	8187.2	8454.2	8787.9	9321.9	9974.5	10189.6	9922.6	9818.8
5295.0	40°	5421.1	5717.7	5895.7	6147.8	6400.0	6948.8	7097.1	7045.2	6941.4
3708.0	42.5°	3848.9	4078.8	4301.3	4546.0	4679.5	5020.6	5309.8	5228.3	5183.8
2818.1	45°	2921.9	3129.5	3389.1	3574.5	3708.0	3908.2	4182.6	4212.3	4145.5
2261.9	47.5°	2343.4	2528.8	2736.5	2966.4	3122.1	3248.2	3485.5	3574.5	3530.0
1905.9	50°	1987.5	2128.4	2328.6	2558.5	2729.1	2840.3	3048.0	3144.4	3114.7
1594.4	52.5°	1690.8	1861.4	2046.8	2239.6	2447.3	2558.5	2751.3	2892.2	2870.0
1320.0	55°	1401.6	1624.1	1816.9	2009.7	2247.0	2358.3	2528.8	2714.2	2677.2
1119.8	57.5°	1223.6	1409.0	1609.3	1794.7	2046.8	2195.1	2350.9	2543.7	2536.3
919.6	60°	1023.4	1208.8	1431.3	1587.0	1854.0	2061.6	2202.5	2402.8	2417.6
697.1	62.5°	815.8	1045.7	1216.2	1431.3	1676.0	1920.7	2054.2	2254.5	2328.6
534.0	65°	608.1	860.3	1053.1	1268.1	1498.0	1772.4	1891.1	2091.3	2165.5
385.6	67.5°	452.4	645.2	889.9	1075.3	1334.9	1572.2	1713.1	1898.5	1950.4
229.9	70°	341.1	496.9	741.6	904.7	1171.7	1364.5	1505.4	1646.3	1713.1
155.7	72.5°	200.2	370.8	585.9	778.7	1008.6	1171.7	1275.5	1386.8	1431.3
74.2	75°	140.9	281.8	459.8	645.2	815.8	949.2	1045.7	1142.1	1186.6
37.1	77.5°	74.2	207.6	363.4	519.1	637.8	749.0	845.4	919.6	949.2
29.7	80°	44.5	148.3	296.6	407.9	489.5	585.9	682.3	734.2	726.8
22.2	82.5°	29.7	118.7	215.1	296.6	356.0	430.1	496.9	534.0	534.0
14.8	85°	22.2	81.6	148.3	229.9	237.3	296.6	311.5	348.6	356.0
14.8	87.5°	14.8	51.9	81.6	133.5	126.1	155.7	163.2	185.4	200.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
89592.4
89963.2
92477.3
93344.9
91995.2
89451.5
85335.7
78164.4
69406.1
59031.2
49620.3
39757.1
31058.1
22285.0
14527.9
9796.5
6956.2
5146.7
4138.1
3507.8
3107.3
2855.2
2677.2
2528.8
2417.6
2321.2
2158.0
1950.4
1698.3
1416.5
1171.7
941.8
719.3
526.5
348.6
192.8
0.0

(END OF REPORT)