

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: P638630

Luminaire Tested: **EPH-VN-03-E-740-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638630
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-03-E-740-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26015.3 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 232.1
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



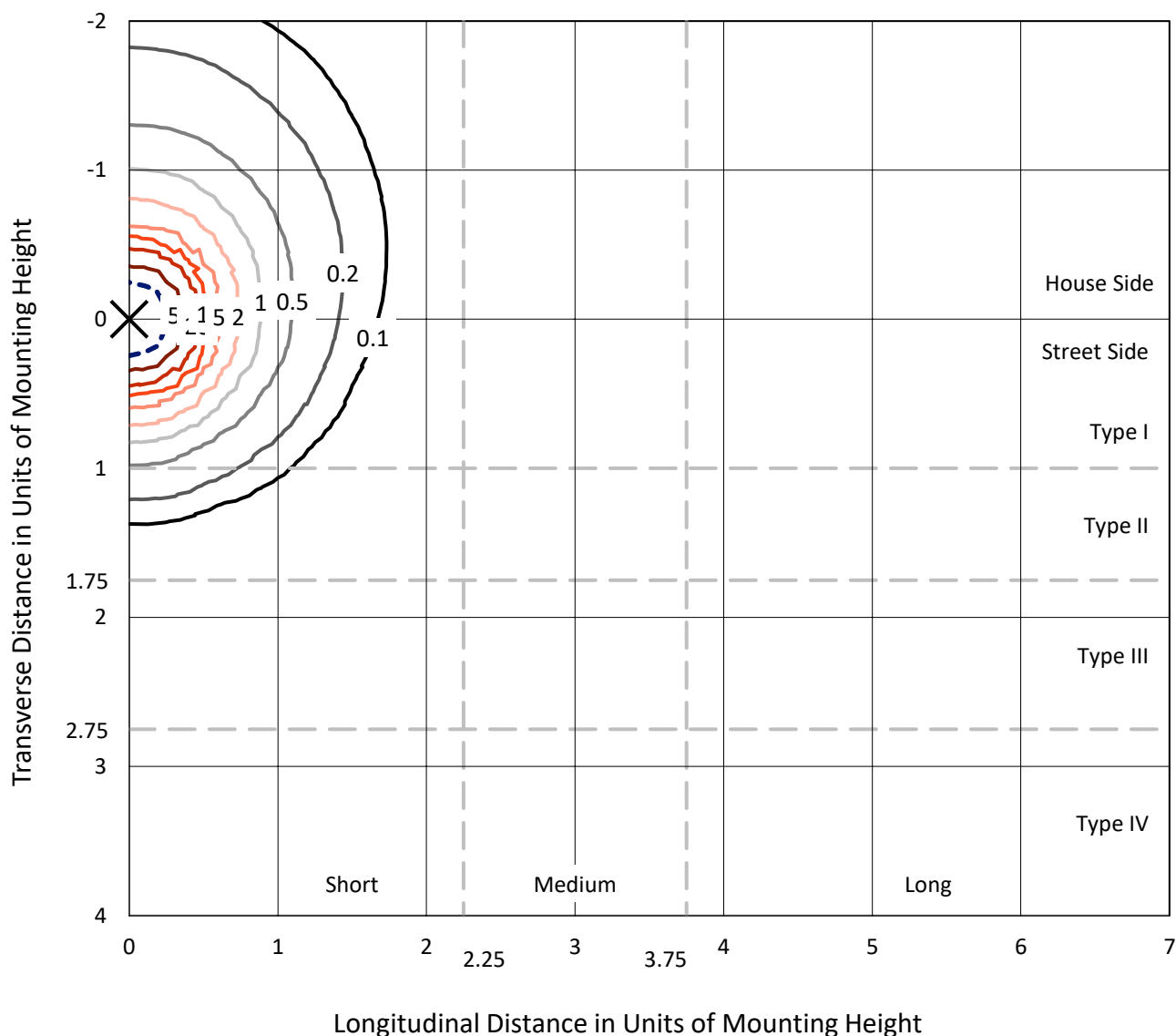
REPORT NUMBER: P638630

CATALOG NUMBER: EPH-VN-03-E-740-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

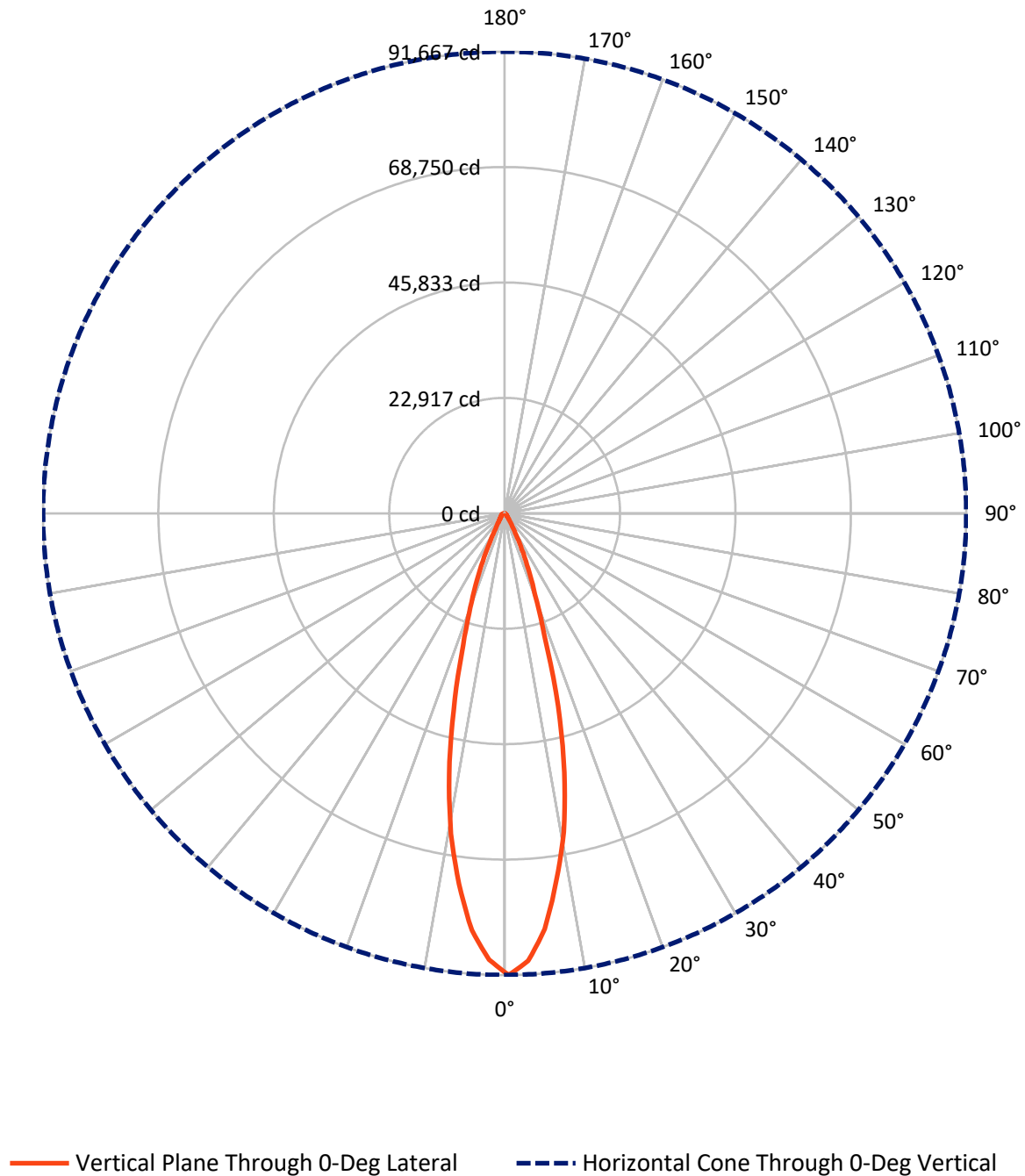


Based on 20 foot mounting height. Maximum calculated value = 229.2 fc

Type V - Short - N/A

REPORT NUMBER: P638630
CATALOG NUMBER: EPH-VN-03-E-740-U-44-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P638630

CATALOG NUMBER: EPH-VN-03-E-740-U-44-VI

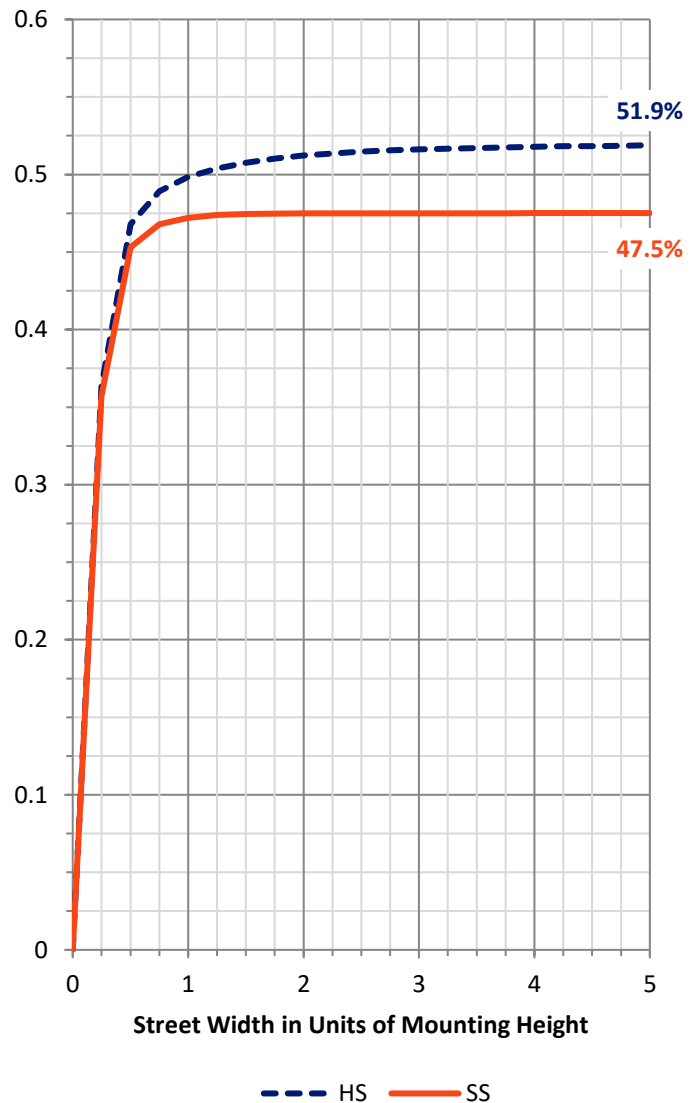
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13717.0	0.0	13717.0
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	12298.3	0.0	12298.3
	% Fixture	47.3	0.0	47.3
Total	Lumens	26015.3	0.0	26015.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7398.3	28.4
10°-20°	11204.7	43.1
20°-30°	4728.4	18.2
30°-40°	1233.2	4.7
40°-50°	623.8	2.4
50°-60°	407.7	1.6
60°-70°	244.3	0.9
70°-80°	128.5	0.5
80°-90°	46.4	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°	26015.3	100.0
0°-180°	26015.3	100.0

Coefficient of Utilization



REPORT NUMBER: P638630

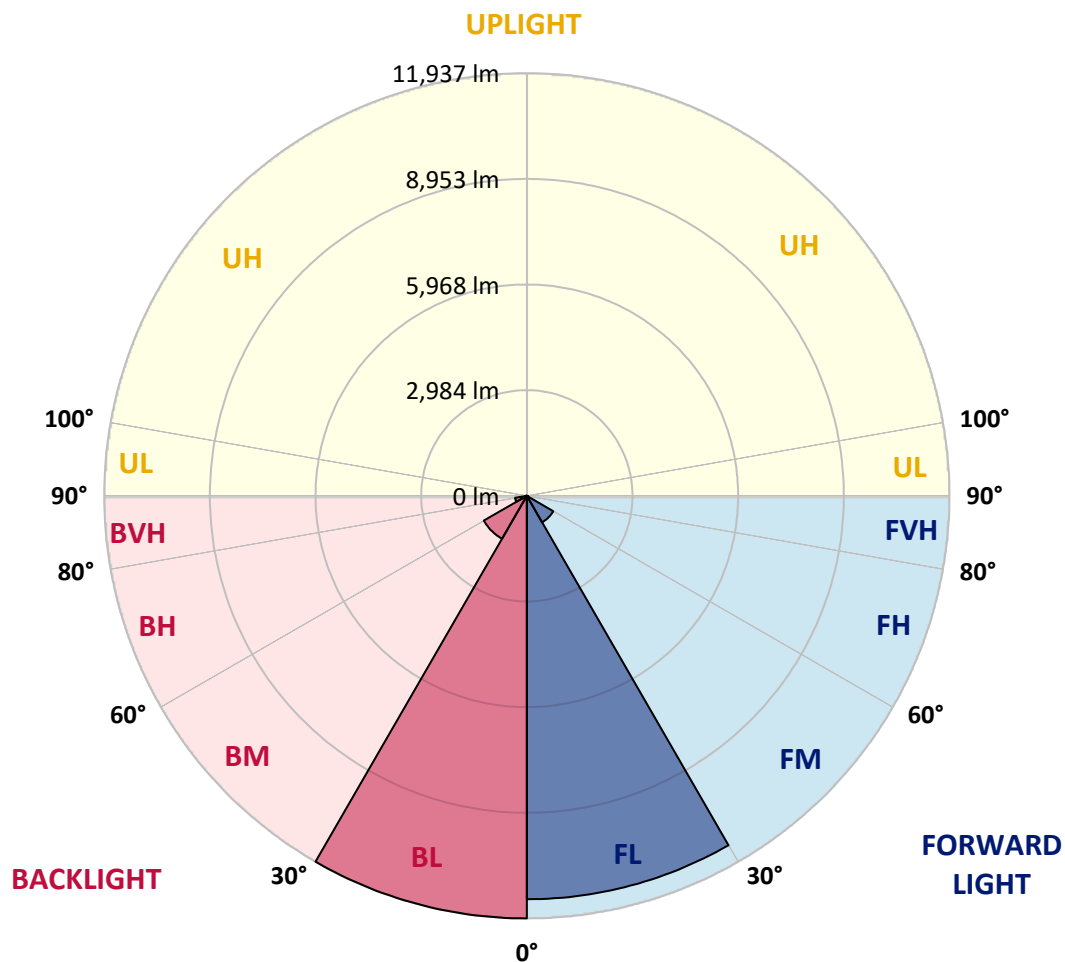
CATALOG NUMBER: EPH-VN-03-E-740-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	11394.5	43.8			
FM	(30°-60°)	862.9	3.3			
FH	(60°-80°)	35.2	0.1			G0/660
FVH	(80°-90°)	5.6	0.0			G0/10
BL	(0°-30°)	11936.9	45.9	B5		
BM	(30°-60°)	1401.7	5.4	B2/2500		
BH	(60°-80°)	337.6	1.3	B1/500		G0/660
BVH	(80°-90°)	40.8	0.2			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



REPORT NUMBER: P638630

CATALOG NUMBER: EPH-VN-03-E-740-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	91666.8	91666.8	91666.8	91666.8	91666.8	91666.8	91666.8	91666.8	91666.8	91666.8
2.5°	88996.5	89046.2	88862.1	89259.4	88949.7	89779.5	89367.5	90010.3	89794.1	90153.4
5°	82919.6	82837.8	82785.3	83401.7	83223.5	84114.6	83544.9	83357.9	83936.3	83831.2
7.5°	73743.0	73959.2	73836.5	73997.2	74087.8	75104.5	75425.8	75174.6	75183.4	75329.4
10°	64335.6	64017.2	63564.3	63865.2	64502.1	64946.2	64768.0	65136.1	65054.3	65402.0
12.5°	52760.4	53011.7	52757.5	52488.7	53601.8	53479.1	53788.8	53990.4	53485.0	54609.8
15°	39741.9	39873.4	40183.1	40162.7	41018.7	41191.0	41150.1	41363.4	40969.0	41156.0
17.5°	25531.5	25975.6	26808.2	28216.4	29799.9	29983.9	29937.2	29761.9	29572.0	29361.7
20°	17149.5	17102.8	17403.7	17815.7	21093.6	21961.3	21935.1	21385.8	20591.1	20439.2
22.5°	12013.4	12101.1	12060.2	12469.2	13147.0	15539.8	15244.7	14686.7	14426.7	14257.2
25°	7902.8	7870.7	8075.2	8197.9	8779.3	9071.4	10105.7	9898.2	9498.0	9541.8
27.5°	4817.6	4858.6	4934.5	5039.7	5451.6	5358.1	5948.3	6027.2	5898.6	5761.3
30°	2956.6	2985.8	3047.2	3123.1	3266.3	3164.0	3327.7	3611.0	3564.3	3467.9
32.5°	2007.1	2010.0	2053.9	2083.1	2065.5	1969.1	2021.7	2290.5	2296.3	2287.6
35°	1443.2	1443.2	1484.2	1507.5	1457.9	1379.0	1387.7	1554.3	1627.3	1641.9
37.5°	996.3	999.2	1069.3	1139.4	1083.9	1063.4	1028.4	1139.4	1256.3	1273.8
40°	756.7	753.8	788.8	841.4	847.3	809.3	821.0	891.1	1010.9	1025.5
42.5°	613.5	616.4	634.0	628.1	631.1	680.7	698.3	730.4	841.4	867.7
45°	517.1	520.0	528.8	499.6	487.9	563.9	587.2	604.8	698.3	730.4
47.5°	426.5	432.4	441.2	409.0	403.2	452.8	493.7	511.3	593.1	628.1
50°	306.8	312.6	344.7	327.2	344.7	356.4	411.9	438.2	493.7	540.5
52.5°	222.0	227.9	236.6	239.6	283.4	289.2	330.1	371.0	397.3	449.9
55°	175.3	181.1	175.3	169.5	207.4	239.6	254.2	298.0	318.4	379.8
57.5°	99.3	105.2	113.9	131.5	137.3	184.1	198.7	236.6	254.2	312.6
60°	17.5	20.5	32.1	78.9	96.4	116.9	149.0	181.1	204.5	245.4
62.5°	2.9	2.9	5.8	17.5	55.5	81.8	108.1	128.5	149.0	187.0
65°	0.0	0.0	2.9	5.8	14.6	46.7	58.4	76.0	102.3	134.4
67.5°	0.0	0.0	2.9	5.8	8.8	17.5	26.3	46.7	58.4	90.6
70°	0.0	0.0	2.9	5.8	8.8	11.7	14.6	20.5	35.1	55.5
72.5°	0.0	0.0	2.9	5.8	8.8	11.7	14.6	17.5	17.5	35.1
75°	0.0	0.0	2.9	5.8	8.8	14.6	17.5	17.5	14.6	14.6
77.5°	0.0	0.0	2.9	5.8	11.7	17.5	20.5	17.5	11.7	11.7
80°	0.0	0.0	5.8	8.8	14.6	20.5	26.3	20.5	11.7	5.8
82.5°	0.0	0.0	5.8	11.7	14.6	23.4	32.1	26.3	11.7	5.8
85°	0.0	0.0	2.9	8.8	17.5	23.4	32.1	23.4	11.7	2.9
87.5°	0.0	0.0	2.9	2.9	5.8	8.8	17.5	14.6	5.8	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P638630

CATALOG NUMBER: EPH-VN-03-E-740-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
91666.8	0°	91666.8	91666.8	91666.8	91666.8	91666.8	91666.8	91666.8	91666.8	91666.8
89472.7	2.5°	89986.9	90454.3	90550.8	90422.2	90609.2	90273.2	90016.1	89350.0	88949.7
83799.0	5°	84339.5	84269.4	84757.3	84918.0	84897.5	84640.4	84281.1	83877.9	83486.4
75046.0	7.5°	75513.5	75604.1	76048.1	76331.5	76188.4	75867.0	75618.7	75314.8	75051.9
65527.6	10°	66126.5	65504.2	66056.4	66056.4	66439.1	65530.5	65615.3	64849.8	64884.9
54589.3	12.5°	54776.3	55001.2	55091.8	55351.8	54904.8	54422.8	53832.6	53715.8	53350.6
40799.6	15°	41386.8	42029.5	41477.4	42421.0	41965.3	41462.7	41372.2	40466.5	40752.8
29592.5	17.5°	29446.4	30156.3	30378.4	30918.8	30504.0	30206.0	29829.1	29554.5	29534.0
20716.8	20°	20880.4	21593.2	21756.8	22405.4	22358.7	22265.2	21946.7	21599.1	21222.2
14102.4	22.5°	14315.6	14897.0	15440.4	16314.0	16299.4	16024.7	15992.6	15501.8	15510.5
9527.2	25°	9626.5	10050.2	10178.7	11072.7	11172.0	11142.8	10976.3	10520.5	10692.9
5819.7	27.5°	5825.6	6196.6	6631.9	6947.5	7245.5	7198.7	7032.2	6778.0	6667.0
3497.1	30°	3590.6	3757.1	3917.8	4297.6	4475.8	4569.3	4490.4	4253.8	4271.3
2302.2	32.5°	2351.9	2492.1	2609.0	2848.5	2942.0	3114.4	3082.2	3032.6	2974.1
1656.5	35°	1715.0	1817.2	1896.1	2007.1	2126.9	2273.0	2296.3	2275.9	2252.5
1279.6	37.5°	1308.9	1414.0	1504.6	1551.3	1644.8	1758.8	1823.1	1820.1	1802.6
1043.0	40°	1063.4	1142.3	1224.1	1285.5	1349.8	1434.5	1513.4	1522.1	1522.1
876.5	42.5°	888.2	955.3	1037.2	1101.4	1148.2	1227.1	1308.9	1314.7	1308.9
742.1	45°	759.6	818.0	896.9	972.9	1010.9	1069.3	1148.2	1165.7	1154.0
636.9	47.5°	660.3	712.9	780.1	861.9	902.8	955.3	1028.4	1048.8	1045.9
549.3	50°	566.8	628.1	695.3	762.5	815.1	864.8	934.9	958.3	949.5
467.4	52.5°	499.6	555.1	613.5	686.6	747.9	791.7	847.3	888.2	876.5
394.4	55°	417.8	485.0	546.3	607.7	683.6	730.4	783.0	832.6	821.0
333.1	57.5°	362.3	417.8	487.9	543.4	619.4	674.9	727.5	780.1	777.1
271.7	60°	303.8	362.3	429.5	487.9	558.0	619.4	672.0	730.4	736.2
204.5	62.5°	239.6	309.7	368.1	435.3	505.4	572.6	619.4	677.8	686.6
154.8	65°	181.1	254.2	318.4	382.7	452.8	525.9	566.8	616.4	625.2
113.9	67.5°	134.4	195.7	271.7	330.1	403.2	473.3	511.3	552.2	566.8
70.1	70°	102.3	149.0	227.9	283.4	359.4	414.9	455.8	490.8	502.5
46.7	72.5°	64.3	116.9	184.1	242.5	309.7	359.4	388.6	409.0	426.5
26.3	75°	43.8	90.6	149.0	207.4	257.1	295.1	321.4	338.9	353.5
11.7	77.5°	26.3	70.1	122.7	172.4	204.5	233.7	260.0	271.7	280.5
8.8	80°	14.6	52.6	102.3	140.2	160.7	181.1	201.6	216.2	222.0
5.8	82.5°	8.8	40.9	81.8	108.1	116.9	137.3	157.8	166.5	166.5
2.9	85°	5.8	29.2	55.5	78.9	84.7	99.3	105.2	111.0	116.9
2.9	87.5°	5.8	17.5	35.1	43.8	46.7	52.6	55.5	61.4	67.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
91666.8
88654.7
83048.2
74160.8
64543.0
53017.5
40466.5
28990.6
21058.6
15341.1
10421.2
6570.6
4195.4
2953.7
2243.8
1793.8
1504.6
1303.0
1154.0
1040.1
943.7
873.5
826.8
780.1
739.2
692.4
634.0
572.6
508.4
423.6
350.6
277.5
216.2
163.6
113.9
64.3
0.0

(END OF REPORT)