

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: P638660

Luminaire Tested: **EPH-VN-03-E-940-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638660
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-940-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (48) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18798.7 lumens
Efficiency: N/A
Efficacy: 81.0 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

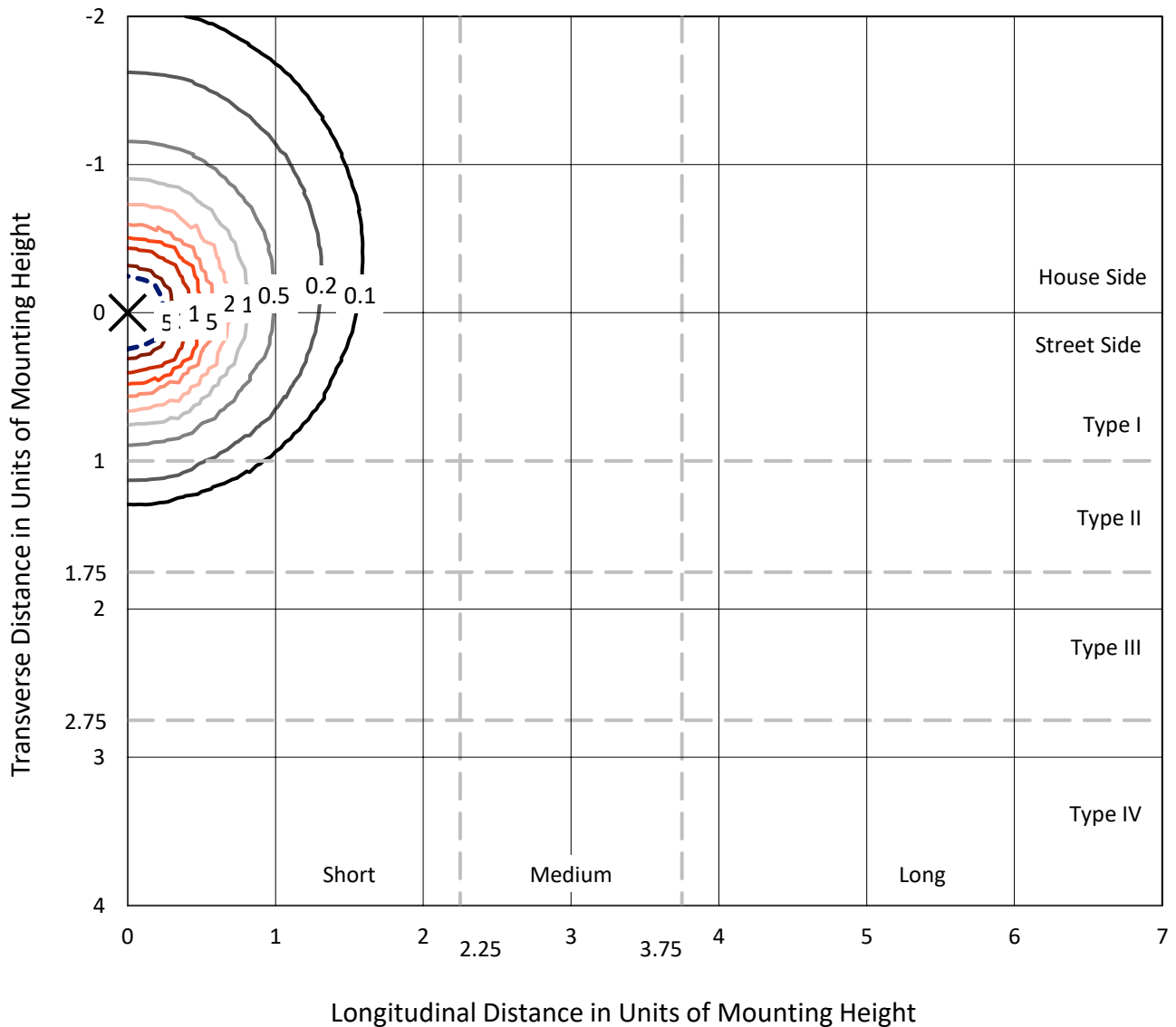
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

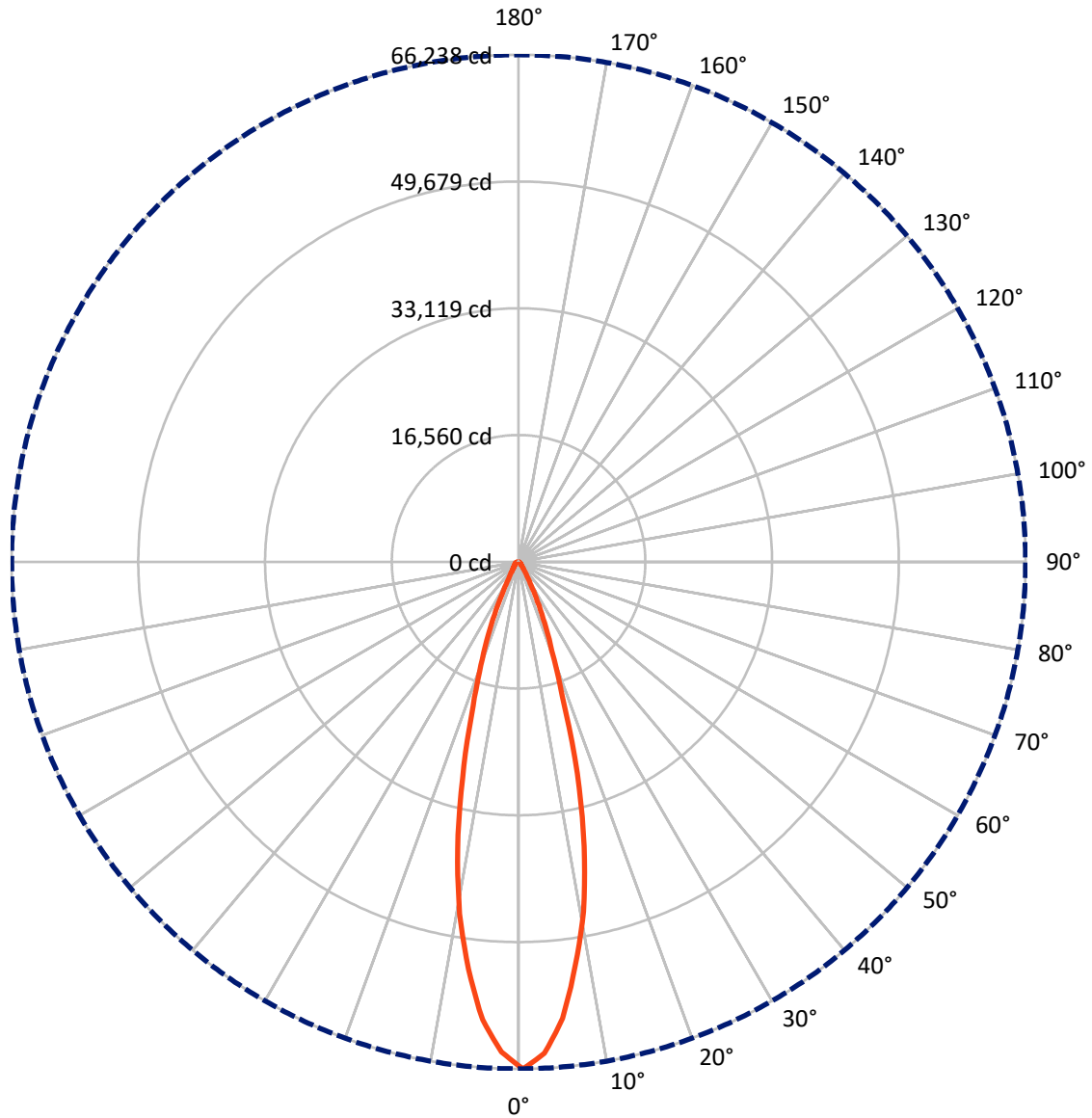
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 165.6 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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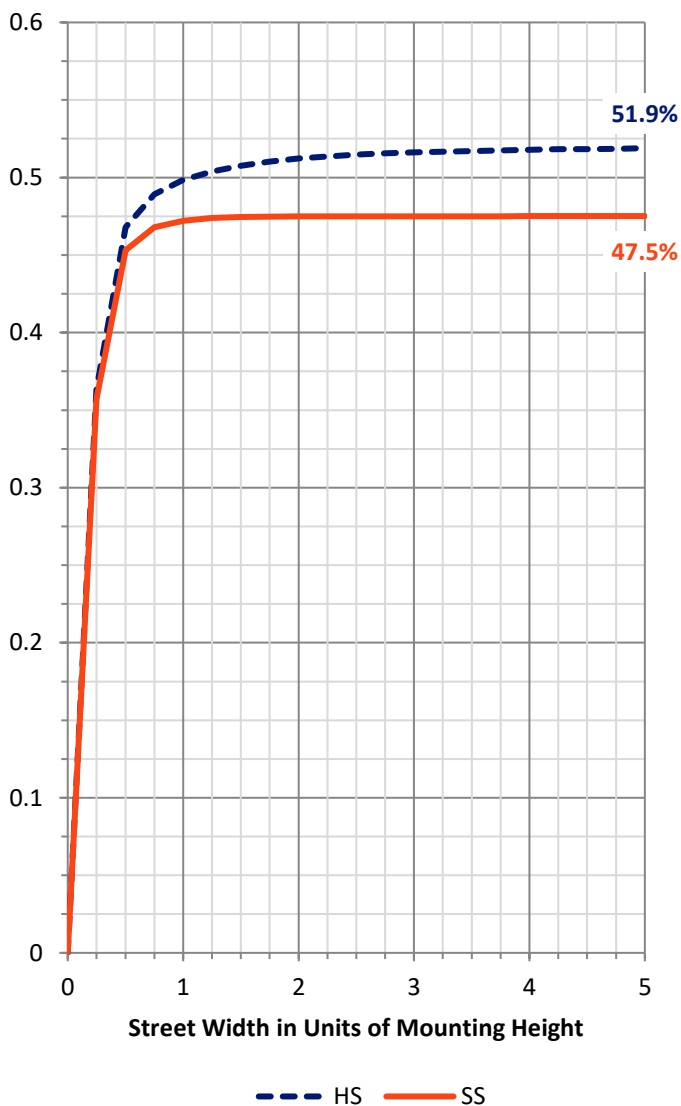
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9911.9	0.0	9911.9
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	8886.7	0.0	8886.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	18798.7	0.0	18798.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5346.0	28.4
10°-20°	8096.5	43.1
20°-30°	3416.8	18.2
30°-40°	891.1	4.7
40°-50°	450.7	2.4
50°-60°	294.6	1.6
60°-70°	176.5	0.9
70°-80°	92.9	0.5
80°-90°	33.5	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°	18798.7	100.0
0°-180°	18798.7	100.0

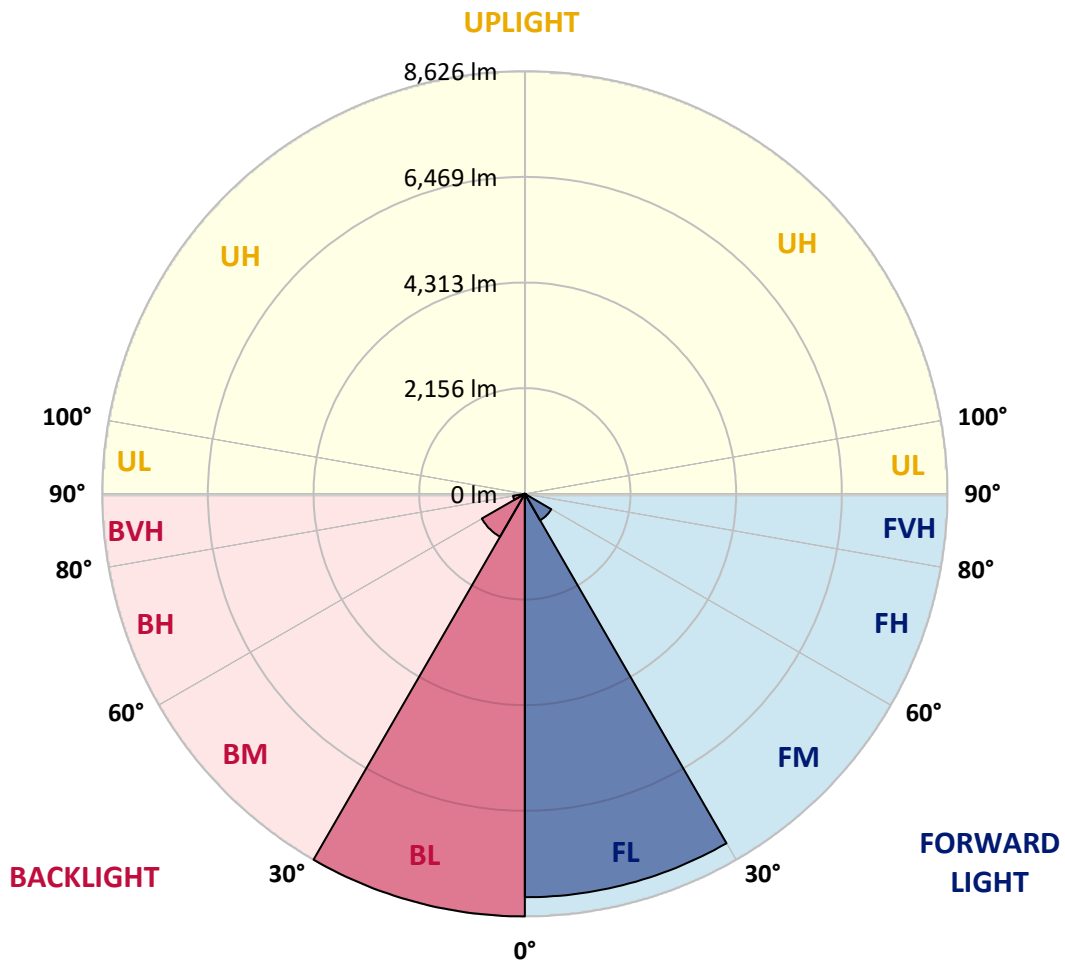


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8233.7	43.8			
FM (30°-60°)	623.6	3.3			
FH (60°-80°)	25.4	0.1			G0/660
FVH (80°-90°)	4.1	0.0			G0/10
BL (0°-30°)	8625.6	45.9	B5		
BM (30°-60°)	1012.9	5.4	B2/2500		
BH (60°-80°)	244.0	1.3	B1/500		G0/660
BVH (80°-90°)	29.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	66238.4	66238.4	66238.4	66238.4	66238.4	66238.4	66238.4	66238.4	66238.4	66238.4
2.5°	64308.9	64344.7	64211.7	64498.9	64275.1	64874.6	64577.0	65041.4	64885.2	65144.9
5°	59917.7	59858.6	59820.6	60266.1	60137.3	60781.2	60369.5	60234.4	60652.4	60576.4
7.5°	53286.7	53442.9	53354.3	53470.4	53535.8	54270.5	54502.7	54321.2	54327.5	54433.1
10°	46488.9	46258.8	45931.6	46149.0	46609.3	46930.1	46801.4	47067.4	47008.3	47259.5
12.5°	38124.7	38306.2	38122.6	37928.3	38732.7	38644.0	38867.8	39013.5	38648.2	39461.0
15°	28717.5	28812.5	29036.3	29021.5	29640.1	29764.6	29735.1	29889.2	29604.2	29739.3
17.5°	18449.1	18769.9	19371.6	20389.2	21533.4	21666.4	21632.6	21506.0	21368.7	21216.7
20°	12392.3	12358.5	12575.9	12873.6	15242.3	15869.3	15850.3	15453.4	14879.2	14769.4
22.5°	8680.9	8744.2	8714.7	9010.2	9500.0	11229.0	11015.8	10612.6	10424.7	10302.3
25°	5710.6	5687.4	5835.1	5923.8	6343.9	6555.0	7302.4	7152.5	6863.2	6894.9
27.5°	3481.2	3510.8	3565.7	3641.7	3939.3	3871.8	4298.2	4355.2	4262.3	4163.1
30°	2136.5	2157.6	2201.9	2256.8	2360.2	2286.3	2404.6	2609.3	2575.6	2505.9
32.5°	1450.3	1452.4	1484.1	1505.2	1492.6	1422.9	1460.9	1655.1	1659.3	1653.0
35°	1042.9	1042.9	1072.4	1089.3	1053.4	996.4	1002.8	1123.1	1175.9	1186.4
37.5°	719.9	722.0	772.7	823.3	783.2	768.4	743.1	823.3	907.8	920.4
40°	546.8	544.7	570.0	608.0	612.2	584.8	593.2	643.9	730.4	741.0
42.5°	443.3	445.4	458.1	453.9	456.0	491.9	504.6	527.8	608.0	627.0
45°	373.7	375.8	382.1	361.0	352.6	407.4	424.3	437.0	504.6	527.8
47.5°	308.2	312.4	318.8	295.6	291.3	327.2	356.8	369.4	428.6	453.9
50°	221.7	225.9	249.1	236.4	249.1	257.6	297.7	316.7	356.8	390.6
52.5°	160.4	164.7	171.0	173.1	204.8	209.0	238.6	268.1	287.1	325.1
55°	126.7	130.9	126.7	122.4	149.9	173.1	183.7	215.3	230.1	274.4
57.5°	71.8	76.0	82.3	95.0	99.2	133.0	143.6	171.0	183.7	225.9
60°	12.7	14.8	23.2	57.0	69.7	84.4	107.7	130.9	147.8	177.3
62.5°	2.1	2.1	4.2	12.7	40.1	59.1	78.1	92.9	107.7	135.1
65°	0.0	0.0	2.1	4.2	10.6	33.8	42.2	54.9	73.9	97.1
67.5°	0.0	0.0	2.1	4.2	6.3	12.7	19.0	33.8	42.2	65.4
70°	0.0	0.0	2.1	4.2	6.3	8.4	10.6	14.8	25.3	40.1
72.5°	0.0	0.0	2.1	4.2	6.3	8.4	10.6	12.7	12.7	25.3
75°	0.0	0.0	2.1	4.2	6.3	10.6	12.7	12.7	10.6	10.6
77.5°	0.0	0.0	2.1	4.2	8.4	12.7	14.8	12.7	8.4	8.4
80°	0.0	0.0	4.2	6.3	10.6	14.8	19.0	14.8	8.4	4.2
82.5°	0.0	0.0	4.2	8.4	10.6	16.9	23.2	19.0	8.4	4.2
85°	0.0	0.0	2.1	6.3	12.7	16.9	23.2	16.9	8.4	2.1
87.5°	0.0	0.0	2.1	2.1	4.2	6.3	12.7	10.6	4.2	2.1
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°
66238.4	0°	66238.4	66238.4	66238.4	66238.4	66238.4	66238.4	66238.4	66238.4	66238.4
64653.0	2.5°	65024.5	65362.3	65432.0	65339.1	65474.2	65231.4	65045.6	64564.3	64275.1
60553.2	5°	60943.7	60893.1	61245.6	61361.7	61347.0	61161.2	60901.5	60610.2	60327.3
54228.3	7.5°	54566.1	54631.5	54952.4	55157.2	55053.7	54821.5	54642.1	54422.5	54232.5
47350.3	10°	47783.0	47333.4	47732.4	47732.4	48008.9	47352.4	47413.6	46860.5	46885.8
39446.2	12.5°	39581.3	39743.9	39809.3	39997.2	39674.2	39325.9	38899.5	38815.0	38551.1
29481.8	15°	29906.1	30370.5	29971.5	30653.4	30324.1	29961.0	29895.5	29241.1	29448.0
21383.5	17.5°	21278.0	21791.0	21951.4	22342.0	22042.2	21826.8	21554.5	21356.1	21341.3
14969.9	20°	15088.2	15603.3	15721.5	16190.2	16156.4	16088.8	15858.7	15607.5	15335.2
10190.4	22.5°	10344.5	10764.6	11157.3	11788.5	11777.9	11579.5	11556.3	11201.6	11207.9
6884.4	25°	6956.1	7262.2	7355.1	8001.1	8072.9	8051.8	7931.5	7602.1	7726.7
4205.3	27.5°	4209.6	4477.7	4792.2	5020.2	5235.6	5201.8	5081.5	4897.8	4817.6
2527.0	30°	2594.6	2714.9	2831.0	3105.5	3234.2	3301.8	3244.8	3073.8	3086.5
1663.6	32.5°	1699.4	1800.8	1885.2	2058.3	2125.9	2250.5	2227.2	2191.3	2149.1
1197.0	35°	1239.2	1313.1	1370.1	1450.3	1536.9	1642.4	1659.3	1644.6	1627.7
924.7	37.5°	945.8	1021.8	1087.2	1121.0	1188.6	1270.9	1317.3	1315.2	1302.6
753.7	40°	768.4	825.4	884.6	928.9	975.3	1036.6	1093.6	1099.9	1099.9
633.3	42.5°	641.8	690.3	749.4	795.9	829.7	886.7	945.8	950.0	945.8
536.2	45°	548.9	591.1	648.1	703.0	730.4	772.7	829.7	842.3	833.9
460.2	47.5°	477.1	515.1	563.7	622.8	652.3	690.3	743.1	757.9	755.8
396.9	50°	409.6	453.9	502.4	551.0	589.0	624.9	675.6	692.4	686.1
337.8	52.5°	361.0	401.1	443.3	496.1	540.4	572.1	612.2	641.8	633.3
285.0	55°	301.9	350.4	394.8	439.1	494.0	527.8	565.8	601.7	593.2
240.7	57.5°	261.8	301.9	352.6	392.7	447.6	487.7	525.7	563.7	561.6
196.3	60°	219.6	261.8	310.3	352.6	403.2	447.6	485.6	527.8	532.0
147.8	62.5°	173.1	223.8	266.0	314.6	365.2	413.8	447.6	489.8	496.1
111.9	65°	130.9	183.7	230.1	276.6	327.2	380.0	409.6	445.4	451.8
82.3	67.5°	97.1	141.4	196.3	238.6	291.3	342.0	369.4	399.0	409.6
50.7	70°	73.9	107.7	164.7	204.8	259.7	299.8	329.3	354.7	363.1
33.8	72.5°	46.4	84.4	133.0	175.2	223.8	259.7	280.8	295.6	308.2
19.0	75°	31.7	65.4	107.7	149.9	185.8	213.2	232.2	244.9	255.4
8.4	77.5°	19.0	50.7	88.7	124.6	147.8	168.9	187.9	196.3	202.7
6.3	80°	10.6	38.0	73.9	101.3	116.1	130.9	145.7	156.2	160.4
4.2	82.5°	6.3	29.6	59.1	78.1	84.4	99.2	114.0	120.3	120.3
2.1	85°	4.2	21.1	40.1	57.0	61.2	71.8	76.0	80.2	84.4
2.1	87.5°	4.2	12.7	25.3	31.7	33.8	38.0	40.1	44.3	48.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
66238.4
64061.9
60010.6
53588.6
46638.8
38310.4
29241.1
20948.6
15216.9
11085.5
7530.4
4747.9
3031.6
2134.3
1621.3
1296.2
1087.2
941.6
833.9
751.6
681.9
631.2
597.4
563.7
534.1
500.3
458.1
413.8
367.3
306.1
253.3
200.6
156.2
118.2
82.3
46.4
0.0

(END OF REPORT)