

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: P638782

Luminaire Tested: **EPH-VN-06-E-730-U-77-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638782
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-E-730-U-77-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens and Visor
Light Source: (96) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37061.3 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

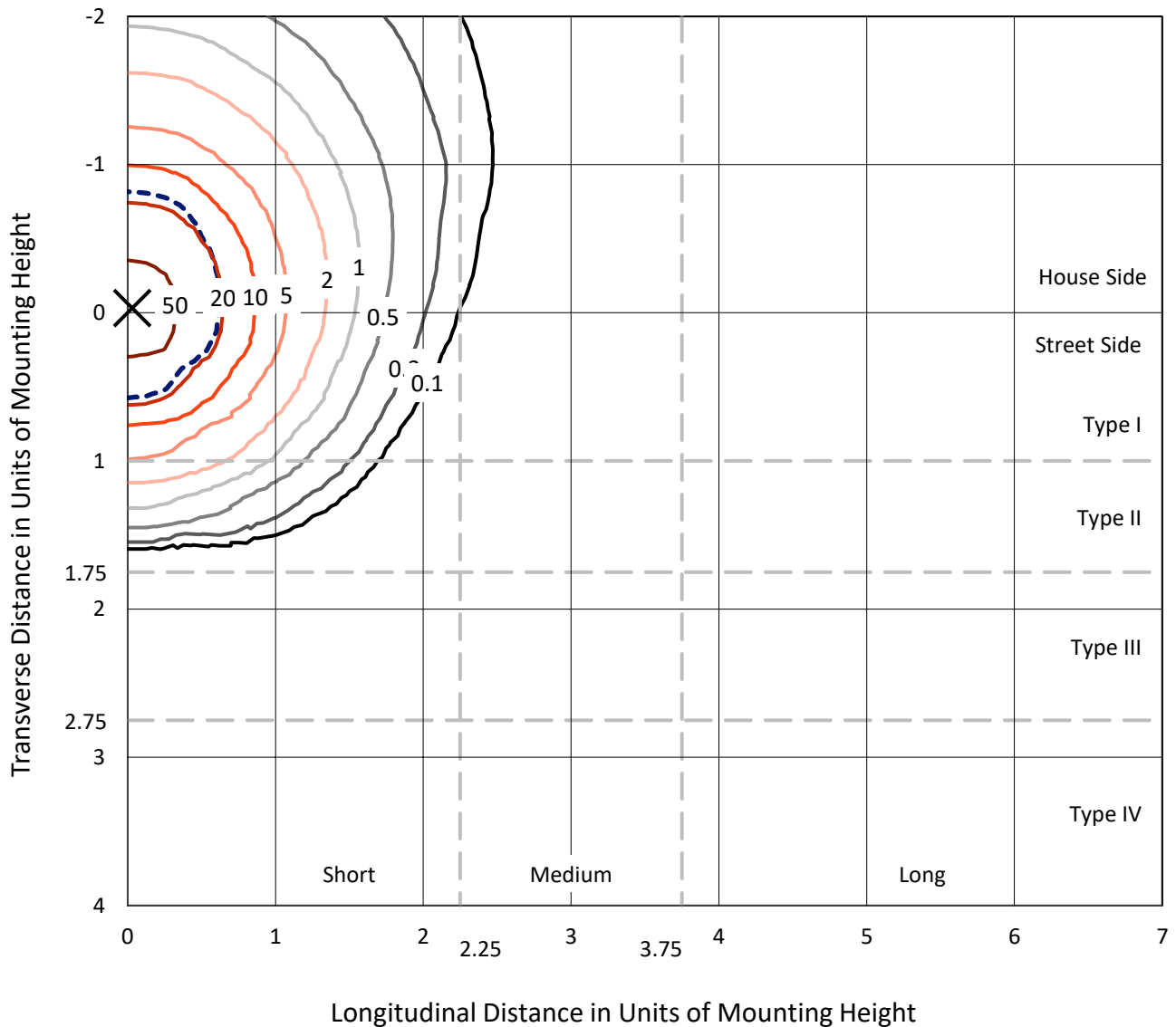
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

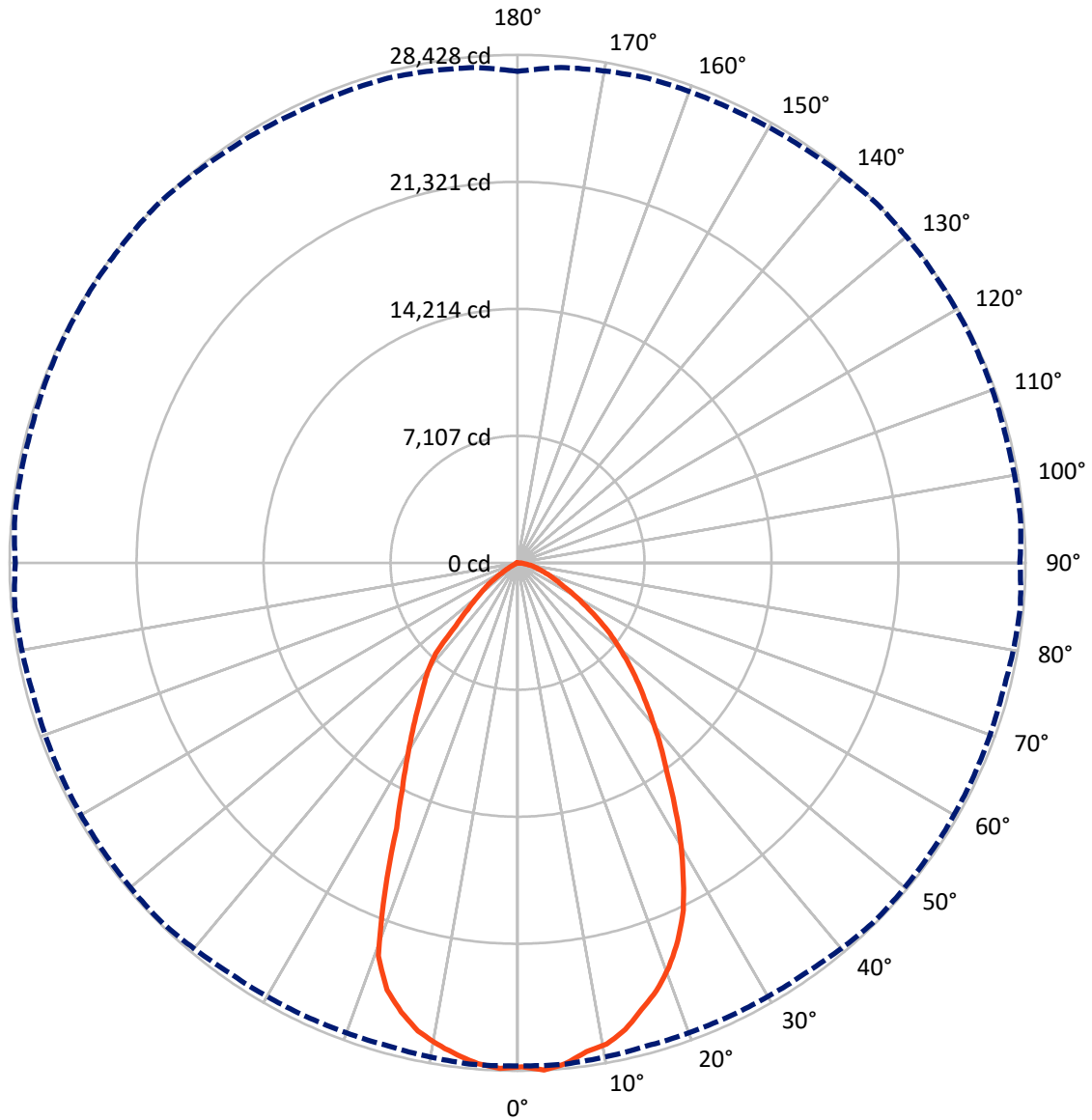
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 70.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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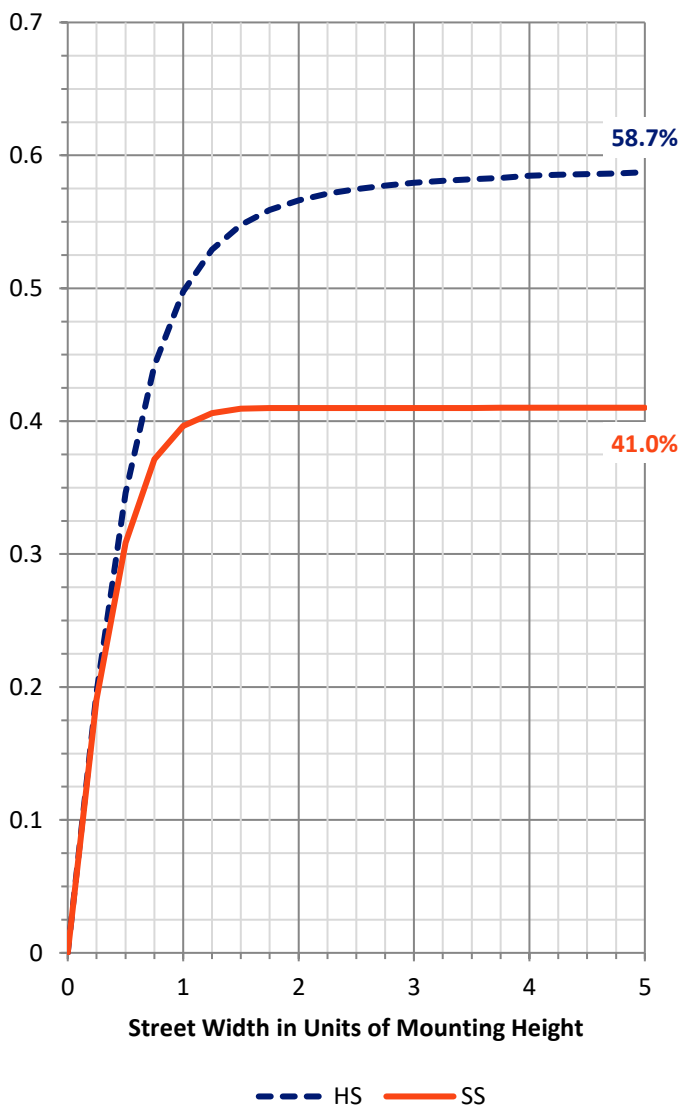
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21949.6	0.0	21949.6
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	15111.7	0.0	15111.7
	% Fixture	40.8	0.0	40.8
Total	Lumens	37061.3	0.0	37061.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2645.0	7.1
10°-20°	7092.8	19.1
20°-30°	8650.1	23.3
30°-40°	7897.5	21.3
40°-50°	5707.3	15.4
50°-60°	3116.3	8.4
60°-70°	1288.5	3.5
70°-80°	521.8	1.4
80°-90°	142.0	0.4
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°	37061.3	100.0
0°-180°	37061.3	100.0

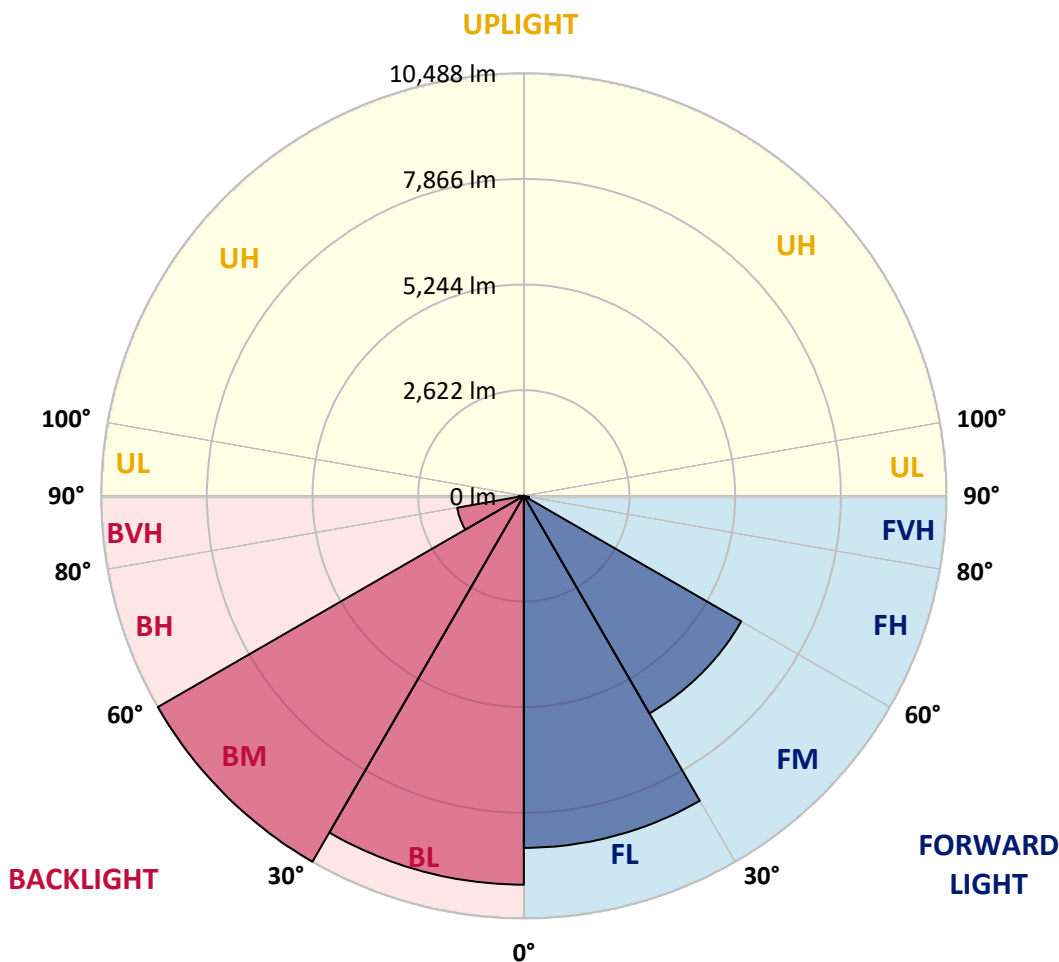


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8736.7	23.6			
FM (30°-60°)	6233.0	16.8			
FH (60°-80°)	130.6	0.4			G0/660
FVH (80°-90°)	11.4	0.0			G1/100
BL (0°-30°)	9651.3	26.0	B5		
BM (30°-60°)	10488.0	28.3	B5		
BH (60°-80°)	1679.7	4.5	B3/2500		G3/2500
BVH (80°-90°)	130.6	0.4			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°	28203.5	28203.5	28203.5	28203.5	28203.5	28203.5	28203.5	28203.5	28203.5	28203.5
2.5°	28151.3	28187.8	27989.5	28010.4	28046.9	28313.1	28245.3	28182.6	28093.9	28245.3
5°	28114.8	28135.7	27926.9	27853.8	27885.1	28125.2	27906.0	27906.0	27885.1	27859.1
7.5°	27833.0	27843.4	27681.6	27551.1	27634.6	27744.2	27582.4	27660.7	27545.9	27634.6
10°	27410.2	27342.4	27149.3	27112.7	27206.7	27311.1	27201.5	27274.5	27170.1	27238.0
12.5°	26789.2	26684.8	26528.2	26481.2	26643.0	26783.9	26695.2	26653.5	26517.8	26684.8
15°	24393.6	24315.3	24670.2	25291.3	25849.7	25969.8	25875.8	25917.6	25635.8	25682.7
17.5°	20077.5	19931.4	20312.4	21784.1	23882.2	24988.6	24905.1	24633.7	24216.2	24310.1
20°	18245.6	18203.9	18162.1	18511.8	19978.4	23334.2	23449.0	22760.1	22165.1	22034.6
22.5°	17212.3	17196.6	17154.9	17233.2	17619.4	19774.8	21090.0	20453.3	20056.6	20020.1
25°	16267.6	16241.5	16116.3	16215.5	16215.5	16340.7	18026.4	18412.7	18063.0	18021.2
27.5°	15307.3	15260.4	15239.5	15286.5	15046.4	14200.9	14628.9	16512.9	16330.3	16340.7
30°	14268.8	14253.1	14195.7	14294.9	13553.8	12504.7	12233.3	14790.7	14827.2	14816.8
32.5°	12723.9	12791.8	13052.7	13162.3	11941.1	11074.7	10620.7	12797.0	13543.3	13527.7
35°	9242.9	9242.9	10093.6	11674.9	10464.1	9811.7	9566.4	10850.3	12275.1	12327.3
37.5°	7598.9	7625.0	7792.0	8512.2	9028.9	8799.2	8726.2	9133.3	10646.8	10730.3
40°	6836.9	6836.9	6836.9	6539.4	6523.8	7927.7	7885.9	7755.4	9195.9	9378.6
42.5°	6142.8	6158.4	6168.9	5417.3	4999.8	6852.6	6758.6	6560.3	7896.4	8110.3
45°	5427.8	5453.9	5485.2	4530.1	4347.4	4932.0	5720.0	5500.8	6612.5	6889.1
47.5°	3314.1	3355.8	4065.6	3841.2	3862.1	3804.7	4665.8	4629.3	5422.5	5814.0
50°	2239.0	2254.6	2322.5	2437.3	3314.1	2990.5	3303.6	3830.8	4117.8	4712.8
52.5°	1878.8	1904.9	1737.9	1581.4	2176.3	2338.1	2306.8	2844.4	2959.2	3695.1
55°	1320.4	1403.9	1325.6	1310.0	1236.9	1816.2	1748.4	2186.8	2259.8	2807.8
57.5°	135.7	156.6	271.4	976.0	808.9	1028.1	1247.3	1602.2	1675.3	2071.9
60°	10.4	10.4	26.1	135.7	589.7	615.8	861.1	986.4	1127.3	1445.7
62.5°	0.0	5.2	10.4	20.9	93.9	328.8	433.2	516.7	678.5	934.2
65°	0.0	0.0	5.2	15.7	20.9	125.3	167.0	271.4	370.5	579.3
67.5°	0.0	0.0	5.2	10.4	15.7	31.3	57.4	99.2	198.3	328.8
70°	0.0	0.0	5.2	10.4	15.7	26.1	41.8	62.6	88.7	177.4
72.5°	0.0	0.0	5.2	5.2	10.4	26.1	31.3	41.8	62.6	88.7
75°	0.0	0.0	5.2	5.2	15.7	31.3	26.1	31.3	41.8	57.4
77.5°	0.0	0.0	5.2	10.4	15.7	31.3	26.1	31.3	31.3	36.5
80°	0.0	0.0	5.2	10.4	20.9	36.5	31.3	31.3	26.1	26.1
82.5°	0.0	0.0	5.2	15.7	20.9	47.0	47.0	41.8	20.9	15.7
85°	0.0	0.0	10.4	20.9	31.3	52.2	52.2	41.8	15.7	10.4
87.5°	0.0	0.0	10.4	15.7	26.1	36.5	52.2	41.8	15.7	5.2
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°
28203.5	0°	28203.5	28203.5	28203.5	28203.5	28203.5	28203.5	28203.5	28203.5	28203.5
28114.8	2.5°	28255.7	28224.4	28328.8	28370.5	28427.9	28208.7	28073.0	28078.3	27827.7
27796.4	5°	27963.4	27968.7	28104.3	28093.9	28151.3	28031.3	27979.1	27890.4	27671.2
27394.6	7.5°	27592.9	27545.9	27676.4	27775.5	27629.4	27712.9	27592.9	27634.6	27504.2
27039.7	10°	27305.8	27196.2	27316.3	27384.1	27389.3	27305.8	27191.0	27081.4	27034.4
26486.5	12.5°	26669.1	26528.2	26731.7	26825.7	26810.0	26648.2	26517.8	26543.9	26392.5
25515.7	15°	25792.3	25797.5	25943.7	26032.4	25948.9	25912.4	25922.8	25860.2	25729.7
24174.4	17.5°	24451.0	24529.3	24915.5	25129.5	25176.5	25103.4	25066.9	24993.8	24863.3
22034.6	20°	22217.3	22687.0	23375.9	24038.7	24169.2	24148.3	24017.9	23986.6	23913.5
19915.7	22.5°	20255.0	20604.6	21403.1	22436.5	22968.8	23021.0	22864.5	22817.5	22739.2
18021.2	25°	18224.8	18600.5	19320.8	20442.8	21544.1	21768.5	21742.4	21601.5	21518.0
16340.7	27.5°	16512.9	16888.7	17541.1	18553.6	19733.1	20453.3	20521.1	20296.7	20291.5
14842.9	30°	14968.1	15484.8	15980.6	16805.2	17948.2	19028.5	19143.3	18986.7	19002.4
13470.3	32.5°	13757.3	14185.3	14608.0	15161.2	16111.1	17368.9	17817.7	17671.6	17614.1
12327.3	35°	12520.4	12812.7	13245.8	13752.1	14399.2	15646.6	16424.2	16314.6	16257.2
10782.5	37.5°	11111.3	11612.3	11925.4	12494.3	13000.5	13992.2	15088.1	15072.5	14952.5
9467.3	40°	9665.6	10192.7	10667.6	11241.7	11633.2	12421.2	13637.3	13632.0	13647.7
8105.1	42.5°	8355.6	8841.0	9415.1	10041.4	10417.1	10991.2	12296.0	12369.0	12457.8
6983.0	45°	7170.9	7609.3	8141.6	8903.6	9357.7	9686.5	10845.1	11179.1	11173.9
5981.0	47.5°	6106.2	6518.5	6967.4	7708.5	8287.8	8585.3	9545.6	10020.5	9989.2
4905.9	50°	5125.1	5490.4	5960.1	6497.7	7275.3	7536.2	8251.2	8877.5	8830.6
3909.0	52.5°	4123.0	4629.3	5025.9	5516.5	6335.9	6591.6	7144.8	7755.4	7718.9
2933.1	55°	3214.9	3705.5	4185.6	4608.4	5297.3	5678.3	6074.9	6701.2	6690.8
2296.4	57.5°	2432.1	2969.6	3423.7	3825.5	4373.5	4843.2	5161.6	5730.5	5803.5
1570.9	60°	1800.6	2212.9	2703.4	3152.3	3585.5	4070.8	4284.8	4843.2	4874.6
1075.1	62.5°	1226.5	1680.5	2160.7	2567.8	2891.3	3392.4	3585.5	4044.7	4102.1
688.9	65°	850.7	1143.0	1691.0	1983.2	2379.9	2807.8	3000.9	3366.3	3481.1
396.6	67.5°	563.7	814.2	1320.4	1586.6	1978.0	2270.3	2515.6	2813.0	2938.3
250.5	70°	307.9	600.2	944.6	1252.6	1591.8	1873.6	2113.7	2353.8	2463.4
114.8	72.5°	208.8	401.9	657.6	991.6	1283.9	1560.5	1774.5	1951.9	1957.1
67.8	75°	104.4	271.4	501.0	767.2	1002.0	1273.4	1466.5	1570.9	1445.7
41.8	77.5°	62.6	198.3	407.1	615.8	814.2	1028.1	1137.7	1195.2	991.6
31.3	80°	36.5	140.9	318.4	490.6	563.7	756.8	861.1	876.8	662.8
20.9	82.5°	26.1	104.4	250.5	360.1	344.5	532.3	647.2	626.3	422.7
15.7	85°	15.7	73.1	156.6	224.4	208.8	349.7	375.8	386.2	245.3
10.4	87.5°	10.4	41.8	83.5	120.0	99.2	151.4	151.4	182.7	120.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
28203.5
27504.2
27619.0
27285.0
26825.7
26262.0
25599.2
24805.9
23746.5
22718.3
21429.2
20281.1
18924.1
17619.4
16178.9
15051.6
13647.7
12410.8
11184.3
9999.6
8872.3
7797.2
6716.9
5772.2
4921.5
4112.6
3455.0
2922.6
2421.6
1910.2
1351.7
955.1
621.1
391.4
224.4
104.4
0.0

(END OF REPORT)