

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: P638674

Luminaire Tested: **EPH-VN-06-E-730-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638674
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-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (96) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45259.9 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

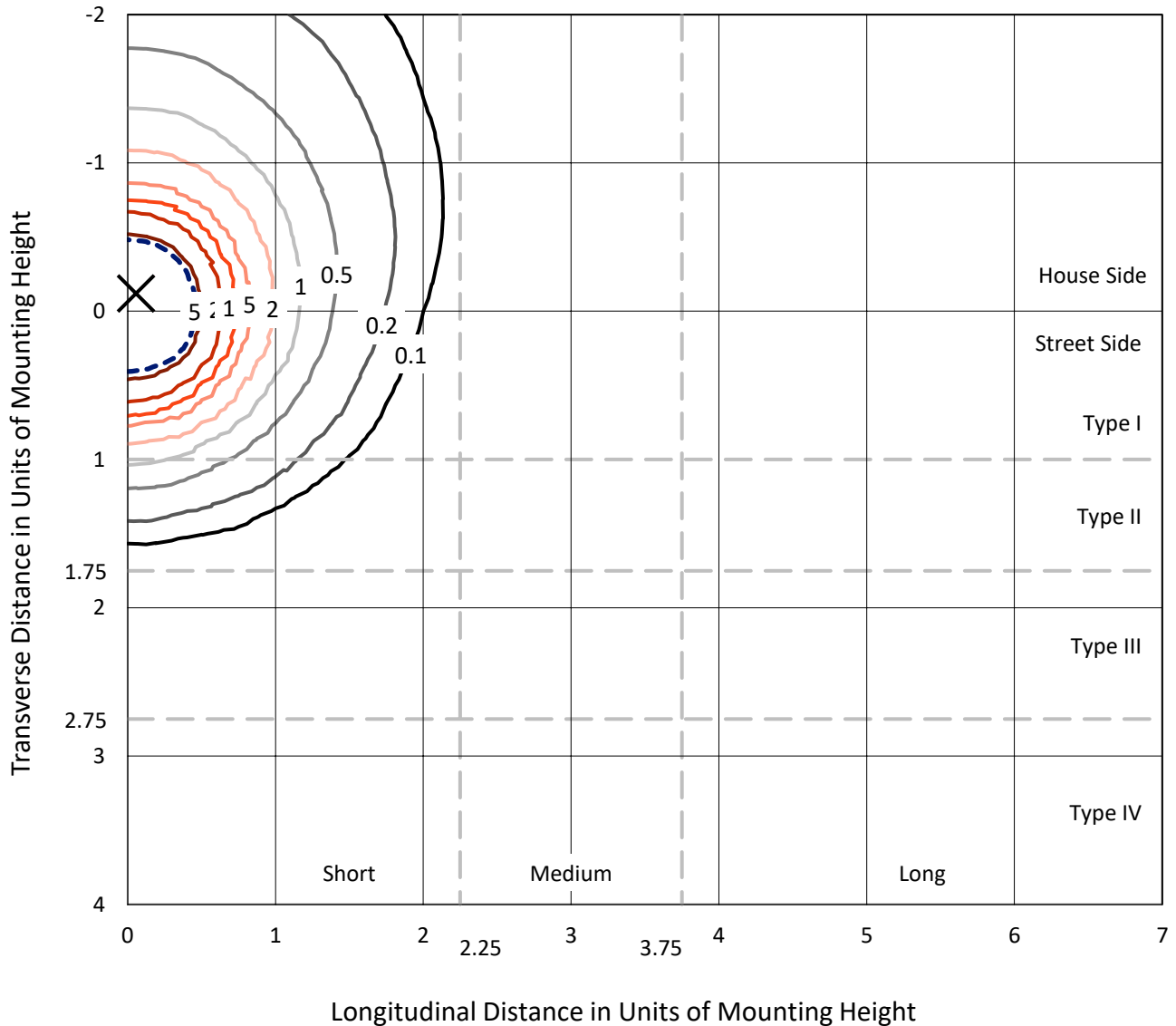
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

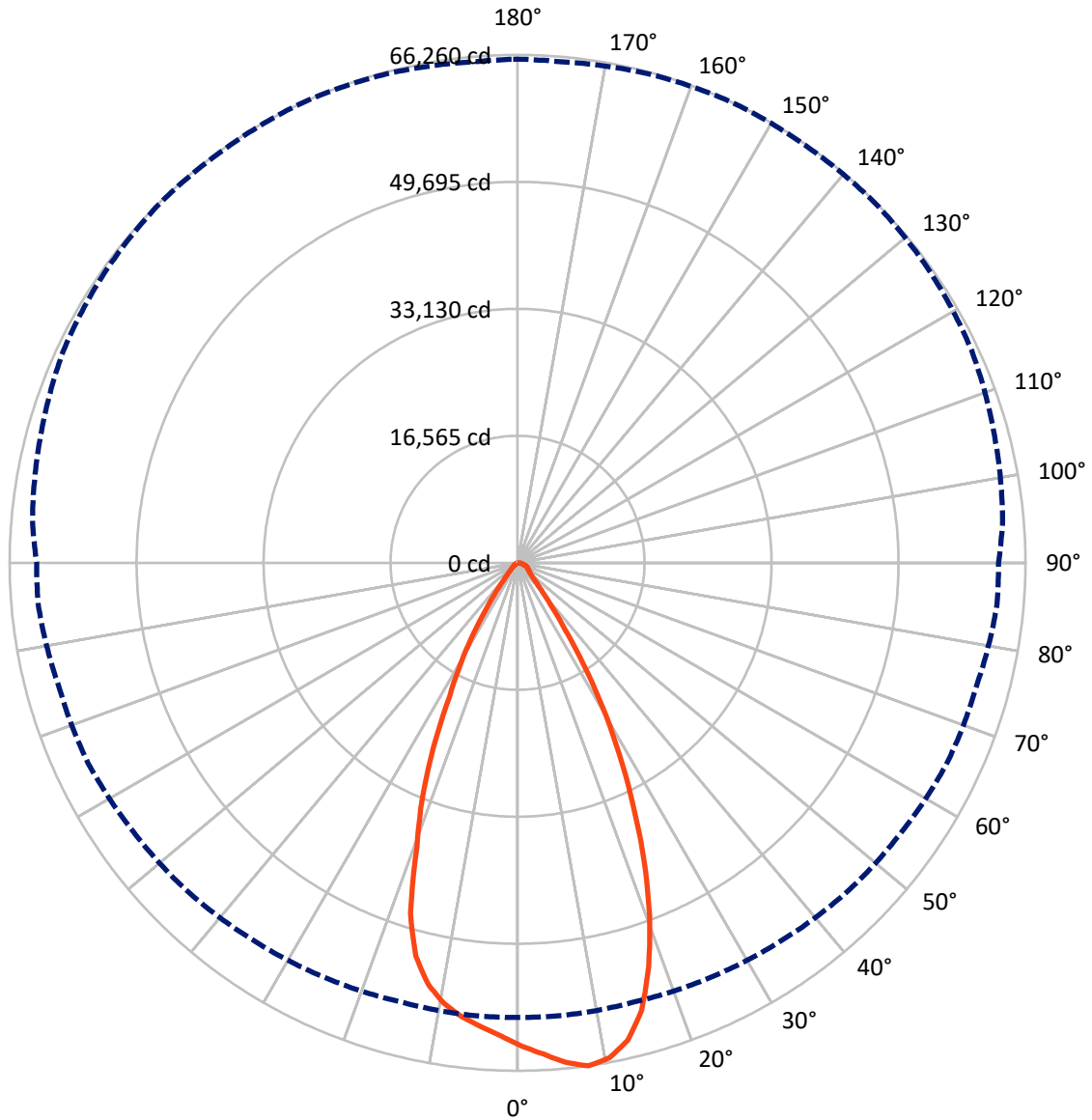
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 160.2 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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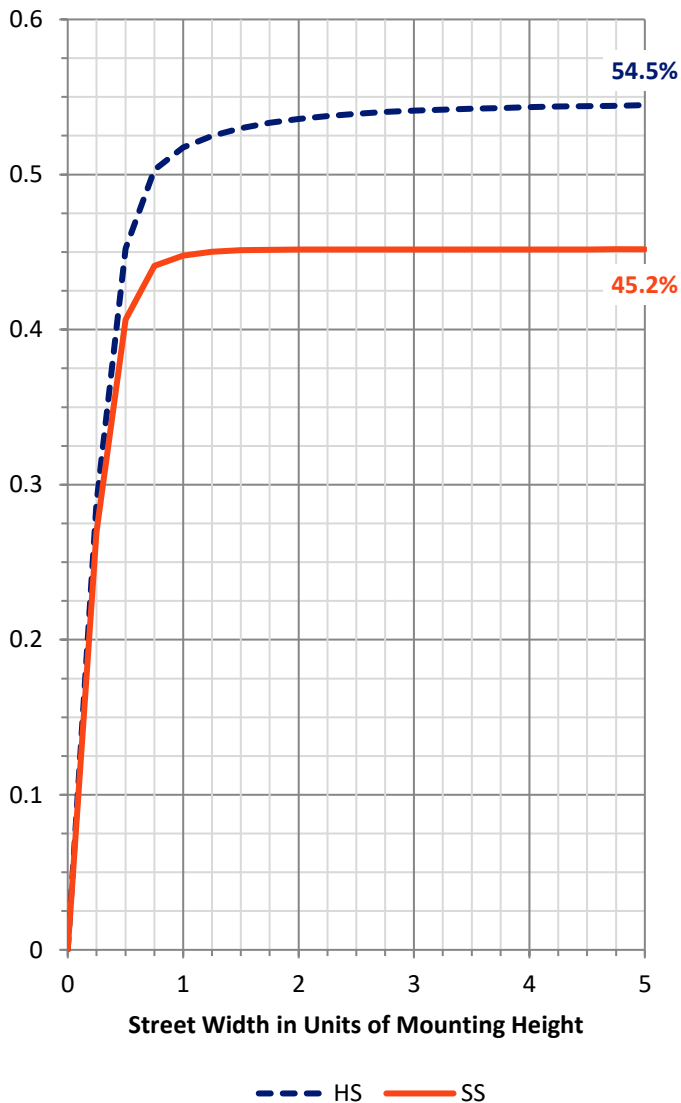
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24985.1	0.0	24985.1
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	20274.8	0.0	20274.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	45259.9	0.0	45259.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6012.3	13.3
10°-20°	15589.9	34.4
20°-30°	14284.7	31.6
30°-40°	5771.0	12.8
40°-50°	1692.9	3.7
50°-60°	946.6	2.1
60°-70°	574.9	1.3
70°-80°	292.1	0.6
80°-90°	95.5	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°	45259.9	100.0
0°-180°	45259.9	100.0



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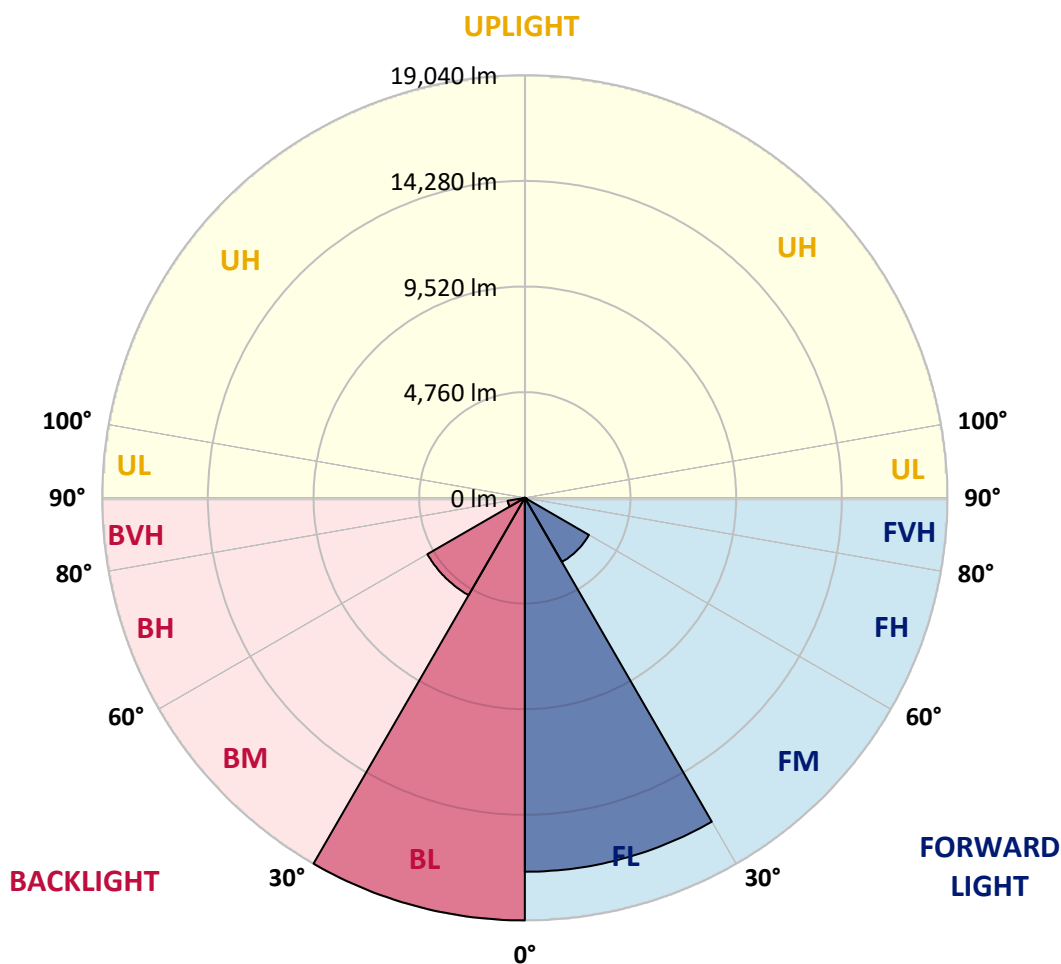
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	16846.9	37.2			
FM (30°-60°)	3338.7	7.4			
FH (60°-80°)	80.9	0.2			G0/660
FVH (80°-90°)	8.3	0.0			G0/10
BL (0°-30°)	19039.9	42.1	B5		
BM (30°-60°)	5071.8	11.2	B4/8500		
BH (60°-80°)	786.2	1.7	B2/1000		G2/1000
BVH (80°-90°)	87.3	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	63050.5	63050.5	63050.5	63050.5	63050.5	63050.5	63050.5	63050.5	63050.5	63050.5
2.5°	61683.1	61891.9	61474.4	61751.0	61965.0	62476.4	62518.2	62695.6	62758.2	63222.7
5°	60514.1	60675.9	60336.6	60707.2	61009.9	61463.9	61813.6	62304.2	62575.6	63123.6
7.5°	59298.1	59334.6	59266.7	59658.2	60112.2	60738.5	61171.7	61813.6	61980.6	62763.5
10°	57826.3	57560.1	57690.6	58264.7	58943.2	59903.5	60200.9	60842.9	61140.4	61938.9
12.5°	55477.8	55613.5	55451.7	56182.3	56746.0	57836.7	58149.9	58797.0	59365.9	60070.5
15°	52168.9	52090.7	52419.4	52988.3	53598.9	54465.3	54971.5	55676.1	56109.3	56839.9
17.5°	44731.9	44998.1	46355.0	47779.8	49032.3	50044.8	50650.2	51234.7	51547.9	52341.2
20°	38630.9	38296.9	38479.5	39283.3	42847.8	44397.9	45034.6	45175.5	45306.0	45932.3
22.5°	31809.7	31700.1	32310.7	33213.6	34059.1	37634.1	38500.4	38171.6	38443.0	39032.8
25°	23621.1	24174.3	24717.1	26449.8	27545.8	29299.4	30943.3	31089.5	31188.6	31559.2
27.5°	19226.7	19033.6	19023.2	19508.6	21126.4	22587.8	23986.4	24310.0	24252.6	24607.5
30°	15114.2	15051.5	14832.3	14947.2	14785.4	16084.9	16742.5	18073.3	18000.3	18010.7
32.5°	10902.5	10667.6	10578.9	10751.1	10584.1	10464.1	11038.1	12541.2	12515.1	12619.5
35°	6596.8	6565.5	6638.5	6789.9	6455.9	6445.4	6565.5	7979.8	8152.0	8319.1
37.5°	3642.8	3611.5	3668.9	4227.4	4117.8	4018.6	4049.9	4796.2	5292.0	5417.3
40°	2400.7	2395.5	2437.3	2536.4	2724.3	2687.8	2703.4	3037.4	3507.2	3616.8
42.5°	1607.4	1612.7	1638.8	1753.6	1779.7	1967.6	1936.2	2014.5	2452.9	2546.9
45°	1283.9	1278.7	1294.3	1242.1	1273.4	1466.5	1487.4	1492.6	1868.4	1925.8
47.5°	1012.5	1012.5	1028.1	960.3	944.6	1064.7	1174.3	1189.9	1492.6	1570.9
50°	709.8	709.8	788.1	756.8	793.3	829.8	949.9	965.5	1221.2	1304.7
52.5°	521.9	532.3	542.8	548.0	668.0	662.8	767.2	840.3	923.8	1069.9
55°	396.6	407.1	381.0	407.1	495.8	553.2	574.1	678.5	735.9	897.7
57.5°	260.9	287.0	266.2	313.1	334.0	428.0	459.3	558.4	595.0	735.9
60°	36.5	41.8	67.8	219.2	234.9	281.8	354.9	443.6	480.1	600.2
62.5°	5.2	5.2	15.7	36.5	156.6	187.9	266.2	307.9	354.9	448.8
65°	0.0	0.0	5.2	10.4	31.3	109.6	135.7	167.0	245.3	323.6
67.5°	0.0	0.0	5.2	10.4	15.7	36.5	57.4	109.6	140.9	224.4
70°	0.0	0.0	5.2	10.4	15.7	20.9	31.3	41.8	83.5	130.5
72.5°	0.0	0.0	5.2	10.4	15.7	20.9	26.1	31.3	36.5	83.5
75°	0.0	0.0	5.2	10.4	15.7	26.1	31.3	31.3	31.3	36.5
77.5°	0.0	0.0	5.2	10.4	20.9	31.3	36.5	31.3	26.1	26.1
80°	0.0	0.0	5.2	15.7	26.1	36.5	41.8	31.3	20.9	15.7
82.5°	0.0	0.0	5.2	15.7	26.1	36.5	41.8	36.5	20.9	15.7
85°	0.0	0.0	5.2	15.7	20.9	26.1	41.8	36.5	20.9	10.4
87.5°	0.0	0.0	0.0	5.2	5.2	10.4	20.9	15.7	10.4	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°
63050.5	0°	63050.5	63050.5	63050.5	63050.5	63050.5	63050.5	63050.5	63050.5	63050.5
63212.3	2.5°	63682.0	63916.9	64329.2	64444.0	64798.9	64391.8	64167.4	64188.2	63702.9
63055.7	5°	63682.0	64219.6	64939.8	65284.2	65545.2	65524.3	65466.9	65320.8	64965.9
62742.6	7.5°	63515.0	64391.8	65383.4	65842.7	66155.8	66129.7	66260.2	66025.3	65592.2
62184.2	10°	62977.4	63739.4	64960.7	65336.4	65842.7	65853.1	65691.3	65738.3	64965.9
60143.5	12.5°	61286.5	61881.5	62951.3	63379.3	63995.1	64094.3	63916.9	63849.0	63118.4
56798.2	15°	58014.2	58358.6	59433.8	59861.7	60472.3	60388.8	60566.3	60493.2	59851.3
52278.5	17.5°	53228.4	53338.0	54465.3	54825.4	55399.5	55623.9	55357.7	55697.0	55143.8
46041.9	20°	46365.4	46955.2	48223.4	48776.6	49110.6	49512.5	49162.8	49543.8	48896.6
38474.3	22.5°	39403.3	39753.0	40901.2	41699.7	42320.7	42399.0	42268.5	42534.7	41663.1
31804.5	25°	31799.3	32378.6	33286.7	34330.5	34941.1	35316.8	34977.6	35149.8	35008.9
24664.9	27.5°	25082.4	25599.1	26282.8	27060.4	27979.0	28469.5	28198.2	28490.4	27801.5
18391.7	30°	18407.3	18668.3	19440.7	20265.3	21272.6	21867.5	21893.6	22191.1	21784.0
12885.7	32.5°	12979.6	13209.2	13684.2	14232.2	15192.5	15855.3	15750.9	15792.6	15542.1
8397.3	35°	8439.1	8747.0	9086.2	9347.2	9926.5	10657.2	10599.8	10547.6	10375.3
5521.7	37.5°	5641.7	5761.8	5949.6	6184.5	6560.3	7019.5	7170.9	6983.0	6909.9
3726.4	40°	3815.1	4023.8	4149.1	4326.5	4504.0	4890.2	4994.6	4958.0	4885.0
2609.5	42.5°	2708.7	2870.4	3027.0	3199.2	3293.2	3533.3	3736.8	3679.4	3648.1
1983.2	45°	2056.3	2202.4	2385.1	2515.5	2609.5	2750.4	2943.5	2964.4	2917.4
1591.8	47.5°	1649.2	1779.7	1925.8	2087.6	2197.2	2285.9	2452.9	2515.5	2484.2
1341.3	50°	1398.7	1497.8	1638.8	1800.5	1920.6	1998.9	2145.0	2212.8	2192.0
1122.1	52.5°	1189.9	1310.0	1440.4	1576.1	1722.3	1800.5	1936.2	2035.4	2019.7
929.0	55°	986.4	1143.0	1278.7	1414.3	1581.4	1659.6	1779.7	1910.1	1884.1
788.1	57.5°	861.1	991.6	1132.5	1263.0	1440.4	1544.8	1654.4	1790.1	1784.9
647.2	60°	720.2	850.7	1007.3	1116.9	1304.7	1450.9	1550.0	1690.9	1701.4
490.6	62.5°	574.1	735.9	855.9	1007.3	1179.5	1351.7	1445.7	1586.6	1638.8
375.8	65°	428.0	605.4	741.1	892.4	1054.2	1247.3	1330.8	1471.8	1523.9
271.4	67.5°	318.4	454.1	626.3	756.8	939.4	1106.4	1205.6	1336.1	1372.6
161.8	70°	240.1	349.7	521.9	636.7	824.6	960.3	1059.5	1158.6	1205.6
109.6	72.5°	140.9	260.9	412.3	548.0	709.8	824.6	897.7	975.9	1007.3
52.2	75°	99.2	198.3	323.6	454.1	574.1	668.0	735.9	803.7	835.0
26.1	77.5°	52.2	146.1	255.7	365.3	448.8	527.1	595.0	647.2	668.0
20.9	80°	31.3	104.4	208.8	287.0	344.5	412.3	480.1	516.7	511.5
15.7	82.5°	20.9	83.5	151.4	208.8	250.5	302.7	349.7	375.8	375.8
10.4	85°	15.7	57.4	104.4	161.8	167.0	208.8	219.2	245.3	250.5
10.4	87.5°	10.4	36.5	57.4	93.9	88.7	109.6	114.8	130.5	140.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
63050.5
63311.5
65080.7
65691.3
64741.5
62951.3
60054.8
55008.1
48844.4
41543.1
34920.2
27979.0
21857.1
15683.0
10224.0
6894.3
4895.4
3622.0
2912.2
2468.6
2186.8
2009.3
1884.1
1779.7
1701.4
1633.5
1518.7
1372.6
1195.1
996.8
824.6
662.8
506.2
370.5
245.3
135.7
0.0

(END OF REPORT)