

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: P638694

Luminaire Tested: **EPH-VN-08-D-750-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638694
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-D-750-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53565.3 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

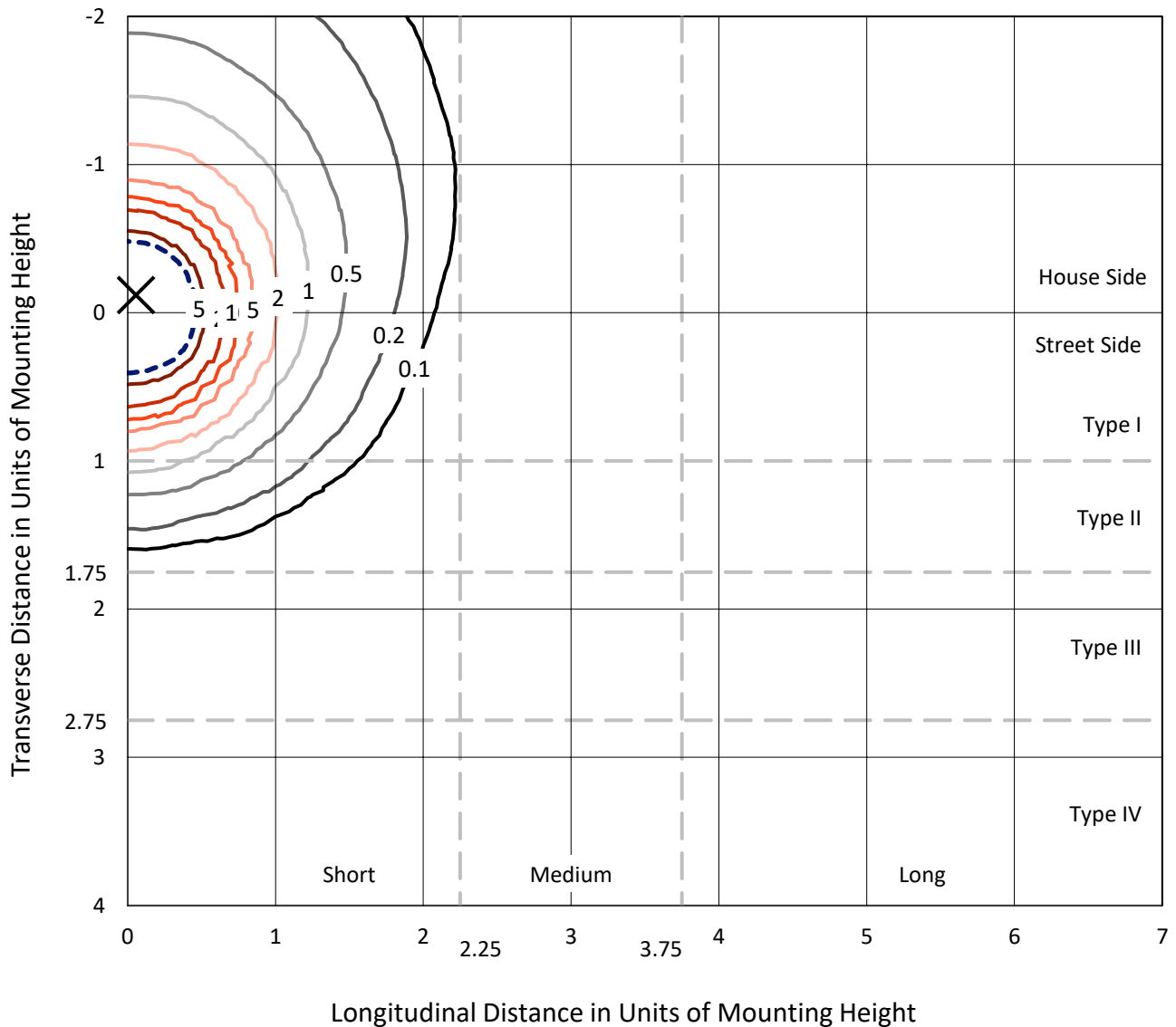
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638694
 CATALOG NUMBER: EPH-VN-08-D-750-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

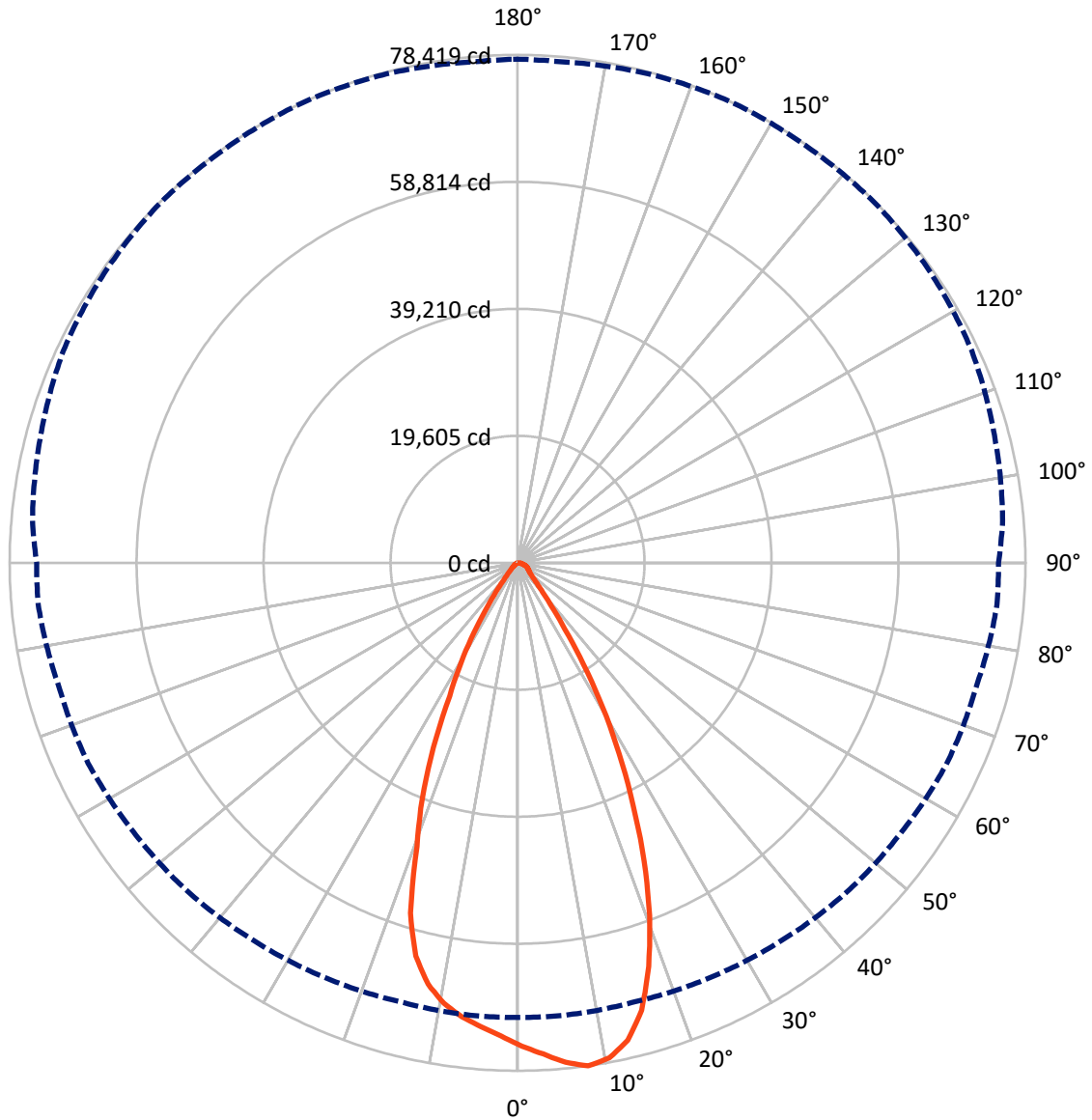
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 189.6 fc
 Type I - Short - N/A

REPORT NUMBER: P638694
CATALOG NUMBER: EPH-VN-08-D-750-U-55-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638694
 CATALOG NUMBER: EPH-VN-08-D-750-U-55-VI

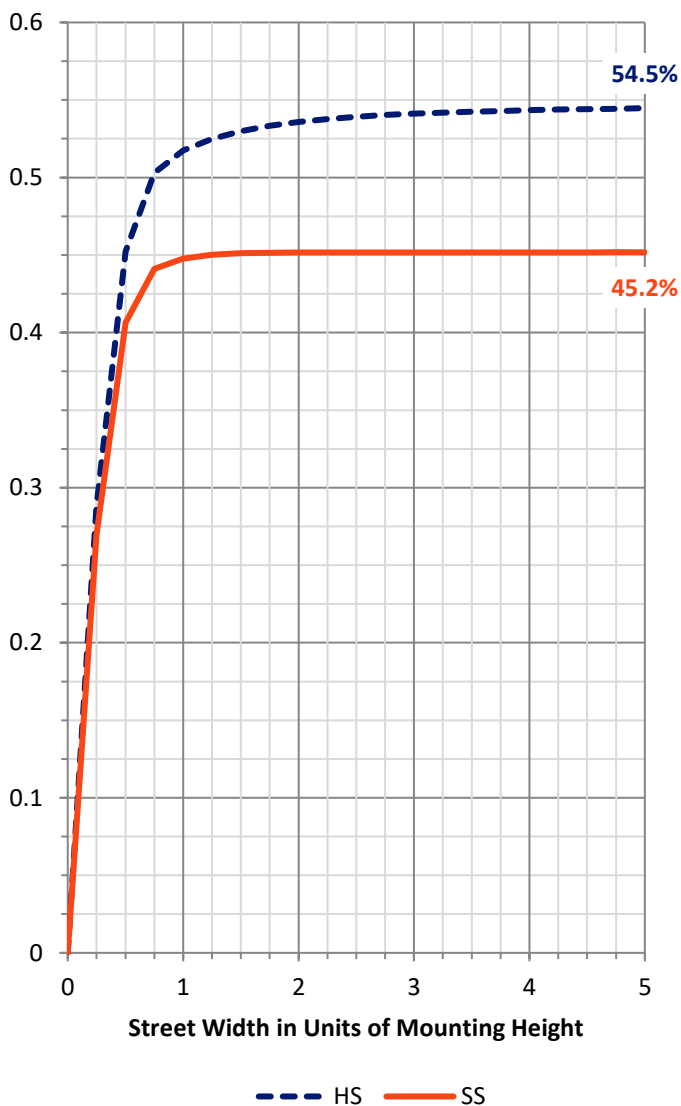
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29570.0	0.0	29570.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	23995.3	0.0	23995.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	53565.3	0.0	53565.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7115.6	13.3
10°-20°	18450.7	34.4
20°-30°	16906.0	31.6
30°-40°	6830.0	12.8
40°-50°	2003.6	3.7
50°-60°	1120.3	2.1
60°-70°	680.4	1.3
70°-80°	345.7	0.6
80°-90°	113.1	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°	53565.3	100.0
0°-180°	53565.3	100.0



REPORT NUMBER: P638694

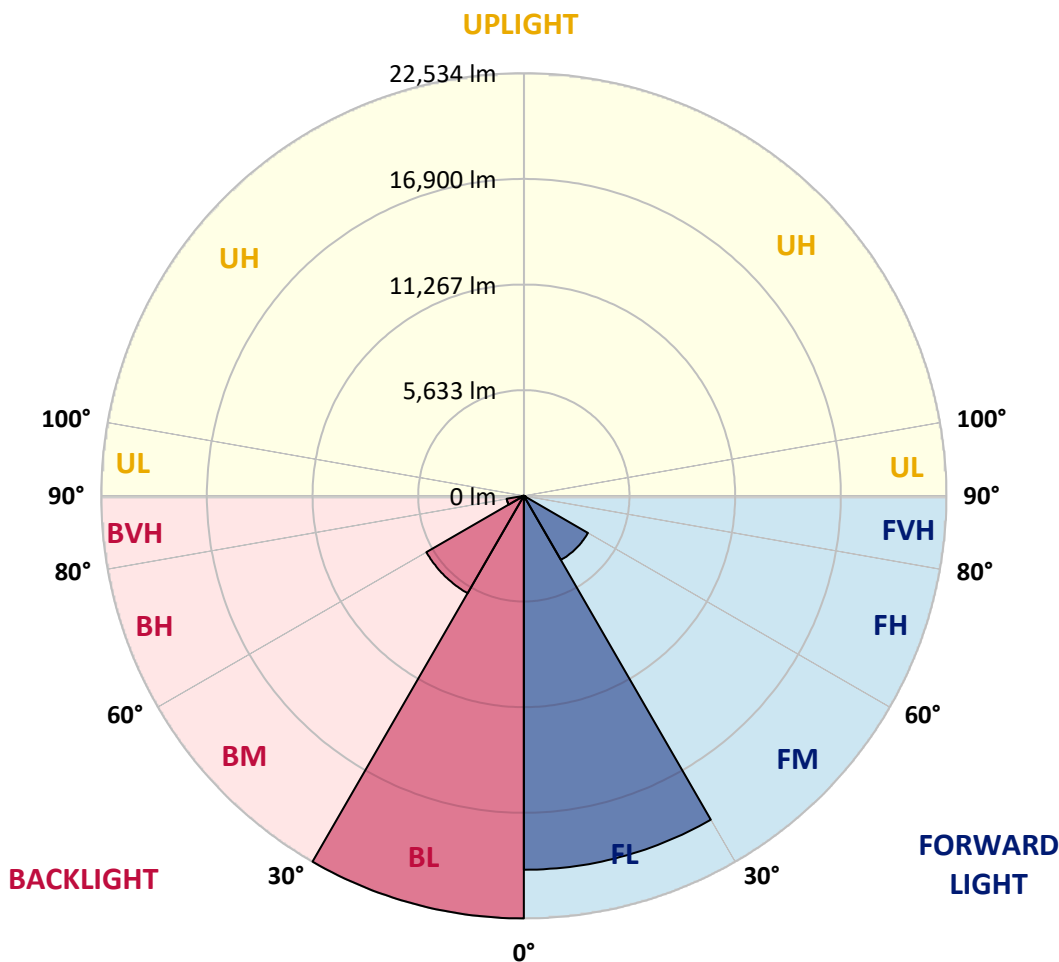
CATALOG NUMBER: EPH-VN-08-D-750-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	19938.3	37.2			
FM (30°-60°)	3951.4	7.4			
FH (60°-80°)	95.7	0.2			G0/660
FVH (80°-90°)	9.8	0.0			G0/10
BL (0°-30°)	22533.8	42.1	B5		
BM (30°-60°)	6002.5	11.2	B4/8500		
BH (60°-80°)	930.4	1.7	B2/1000		G2/1000
BVH (80°-90°)	103.3	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-G2

Type I Short





REPORT NUMBER: P638694
 CATALOG NUMBER: EPH-VN-08-D-750-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	74620.6	74620.6	74620.6	74620.6	74620.6	74620.6	74620.6	74620.6	74620.6	74620.6
2.5°	73002.3	73249.3	72755.2	73082.6	73335.8	73941.1	73990.5	74200.5	74274.7	74824.4
5°	71618.7	71810.2	71408.7	71847.2	72205.5	72742.9	73156.7	73737.3	74058.5	74707.0
7.5°	70179.5	70222.8	70142.5	70605.7	71143.1	71884.3	72397.0	73156.7	73354.3	74280.8
10°	68437.7	68122.7	68277.1	68956.5	69759.5	70896.0	71248.1	72007.8	72359.9	73304.9
12.5°	65658.2	65818.8	65627.3	66492.0	67159.1	68450.1	68820.7	69586.6	70259.8	71093.7
15°	61742.2	61649.5	62038.7	62711.9	63434.6	64459.9	65059.1	65892.9	66405.6	67270.3
17.5°	52940.4	53255.4	54861.3	56547.6	58030.0	59228.3	59944.8	60636.5	61007.1	61946.0
20°	45719.8	45324.5	45540.7	46491.9	50710.6	52545.1	53298.6	53465.4	53619.8	54361.0
22.5°	37646.9	37517.2	38239.9	39308.4	40309.1	44540.1	45565.4	45176.3	45497.5	46195.4
25°	27955.7	28610.4	29252.8	31303.5	32600.6	34675.9	36621.6	36794.5	36911.9	37350.4
27.5°	22754.9	22526.4	22514.0	23088.5	25003.2	26732.7	28388.1	28771.0	28703.1	29123.1
30°	17887.7	17813.6	17554.1	17690.0	17498.6	19036.6	19814.8	21389.9	21303.4	21315.7
32.5°	12903.1	12625.1	12520.1	12724.0	12526.3	12384.3	13063.7	14842.6	14811.7	14935.2
35°	7807.3	7770.3	7856.7	8035.9	7640.6	7628.2	7770.3	9444.2	9648.0	9845.6
37.5°	4311.3	4274.3	4342.2	5003.1	4873.4	4756.0	4793.1	5676.4	6263.2	6411.4
40°	2841.3	2835.1	2884.5	3001.9	3224.2	3181.0	3199.5	3594.8	4150.7	4280.4
42.5°	1902.4	1908.6	1939.5	2075.4	2106.3	2328.6	2291.6	2384.2	2903.0	3014.2
45°	1519.5	1513.3	1531.8	1470.1	1507.1	1735.6	1760.4	1766.5	2211.3	2279.2
47.5°	1198.3	1198.3	1216.8	1136.5	1118.0	1260.0	1389.8	1408.3	1766.5	1859.2
50°	840.0	840.0	932.7	895.6	938.9	982.1	1124.2	1142.7	1445.3	1544.2
52.5°	617.7	630.0	642.4	648.6	790.6	784.4	908.0	994.4	1093.3	1266.2
55°	469.4	481.8	450.9	481.8	586.8	654.7	679.4	803.0	870.9	1062.4
57.5°	308.8	339.7	315.0	370.6	395.3	506.5	543.5	660.9	704.1	870.9
60°	43.2	49.4	80.3	259.4	278.0	333.5	420.0	525.0	568.3	710.3
62.5°	6.2	6.2	18.5	43.2	185.3	222.4	315.0	364.4	420.0	531.2
65°	0.0	0.0	6.2	12.4	37.1	129.7	160.6	197.7	290.3	383.0
67.5°	0.0	0.0	6.2	12.4	18.5	43.2	67.9	129.7	166.8	265.6
70°	0.0	0.0	6.2	12.4	18.5	24.7	37.1	49.4	98.8	154.4
72.5°	0.0	0.0	6.2	12.4	18.5	24.7	30.9	37.1	43.2	98.8
75°	0.0	0.0	6.2	12.4	18.5	30.9	37.1	37.1	37.1	43.2
77.5°	0.0	0.0	6.2	12.4	24.7	37.1	43.2	37.1	30.9	30.9
80°	0.0	0.0	6.2	18.5	30.9	43.2	49.4	37.1	24.7	18.5
82.5°	0.0	0.0	6.2	18.5	30.9	43.2	49.4	43.2	24.7	18.5
85°	0.0	0.0	6.2	18.5	24.7	30.9	49.4	43.2	24.7	12.4
87.5°	0.0	0.0	0.0	6.2	6.2	12.4	24.7	18.5	12.4	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638694

CATALOG NUMBER: EPH-VN-08-D-750-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
74620.6	0°	74620.6	74620.6	74620.6	74620.6	74620.6	74620.6	74620.6	74620.6	74620.6
74812.0	2.5°	75367.9	75645.9	76133.9	76269.7	76689.8	76208.0	75942.4	75967.1	75392.7
74626.7	5°	75367.9	76004.1	76856.5	77264.2	77573.0	77548.3	77480.4	77307.4	76887.4
74256.1	7.5°	75170.3	76208.0	77381.5	77925.1	78295.7	78264.8	78419.2	78141.3	77628.6
73595.2	10°	74534.1	75435.9	76881.2	77326.0	77925.1	77937.4	77746.0	77801.6	76887.4
71180.1	12.5°	72532.8	73237.0	74503.2	75009.7	75738.5	75855.9	75645.9	75565.6	74700.9
67220.9	15°	68660.1	69067.7	70340.1	70846.6	71569.3	71470.5	71680.5	71594.0	70834.3
61871.9	17.5°	62996.0	63125.7	64459.9	64886.1	65565.5	65831.1	65516.1	65917.6	65262.9
54490.7	20°	54873.7	55571.7	57072.6	57727.3	58122.6	58598.2	58184.4	58635.3	57869.4
45534.5	22.5°	46634.0	47047.8	48406.7	49351.7	50086.8	50179.4	50025.0	50340.0	49308.5
37640.7	25°	37634.6	38320.2	39394.9	40630.3	41352.9	41797.6	41396.2	41600.0	41433.2
29191.0	27.5°	29685.2	30296.7	31105.8	32026.1	33113.2	33693.8	33372.6	33718.5	32903.2
21766.6	30°	21785.2	22094.0	23008.2	23984.1	25176.2	25880.3	25911.2	26263.3	25781.5
15250.2	32.5°	15361.4	15633.2	16195.3	16843.8	17980.3	18764.8	18641.2	18690.7	18394.2
9938.3	35°	9987.7	10352.1	10753.6	11062.4	11748.1	12612.8	12544.9	12483.1	12279.3
6534.9	37.5°	6677.0	6819.1	7041.4	7319.4	7764.1	8307.6	8486.8	8264.4	8177.9
4410.2	40°	4515.2	4762.2	4910.5	5120.5	5330.5	5787.6	5911.1	5867.9	5781.4
3088.3	42.5°	3205.7	3397.2	3582.5	3786.3	3897.5	4181.6	4422.5	4354.6	4317.5
2347.1	45°	2433.6	2606.6	2822.7	2977.2	3088.3	3255.1	3483.7	3508.4	3452.8
1883.9	47.5°	1951.8	2106.3	2279.2	2470.7	2600.4	2705.4	2903.0	2977.2	2940.1
1587.4	50°	1655.4	1772.7	1939.5	2131.0	2273.0	2365.7	2538.6	2618.9	2594.2
1328.0	52.5°	1408.3	1550.3	1704.8	1865.4	2038.3	2131.0	2291.6	2408.9	2390.4
1099.5	55°	1167.4	1352.7	1513.3	1673.9	1871.5	1964.2	2106.3	2260.7	2229.8
932.7	57.5°	1019.2	1173.6	1340.3	1494.8	1704.8	1828.3	1958.0	2118.6	2112.4
765.9	60°	852.4	1006.8	1192.1	1321.8	1544.2	1717.1	1834.5	2001.2	2013.6
580.6	62.5°	679.4	870.9	1013.0	1192.1	1395.9	1599.8	1710.9	1877.7	1939.5
444.7	65°	506.5	716.5	877.1	1056.2	1247.7	1476.2	1575.1	1741.8	1803.6
321.2	67.5°	376.8	537.4	741.2	895.6	1111.8	1309.5	1426.8	1581.2	1624.5
191.5	70°	284.1	413.8	617.7	753.6	975.9	1136.5	1253.9	1371.2	1426.8
129.7	72.5°	166.8	308.8	488.0	648.6	840.0	975.9	1062.4	1155.0	1192.1
61.8	75°	117.4	234.7	383.0	537.4	679.4	790.6	870.9	951.2	988.3
30.9	77.5°	61.8	172.9	302.7	432.4	531.2	623.8	704.1	765.9	790.6
24.7	80°	37.1	123.5	247.1	339.7	407.7	488.0	568.3	611.5	605.3
18.5	82.5°	24.7	98.8	179.1	247.1	296.5	358.2	413.8	444.7	444.7
12.4	85°	18.5	67.9	123.5	191.5	197.7	247.1	259.4	290.3	296.5
12.4	87.5°	12.4	43.2	67.9	111.2	105.0	129.7	135.9	154.4	166.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
74620.6
74929.4
77023.3
77746.0
76621.8
74503.2
71075.1
65102.3
57807.6
49166.4
41328.2
33113.2
25868.0
18560.9
12100.1
8159.4
5793.7
4286.6
3446.6
2921.6
2588.0
2378.0
2229.8
2106.3
2013.6
1933.3
1797.4
1624.5
1414.5
1179.7
975.9
784.4
599.1
438.5
290.3
160.6
0.0

(END OF REPORT)