

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: P638673

Luminaire Tested: **EPH-VN-04-E-730-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638673
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-04-E-730-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29916 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

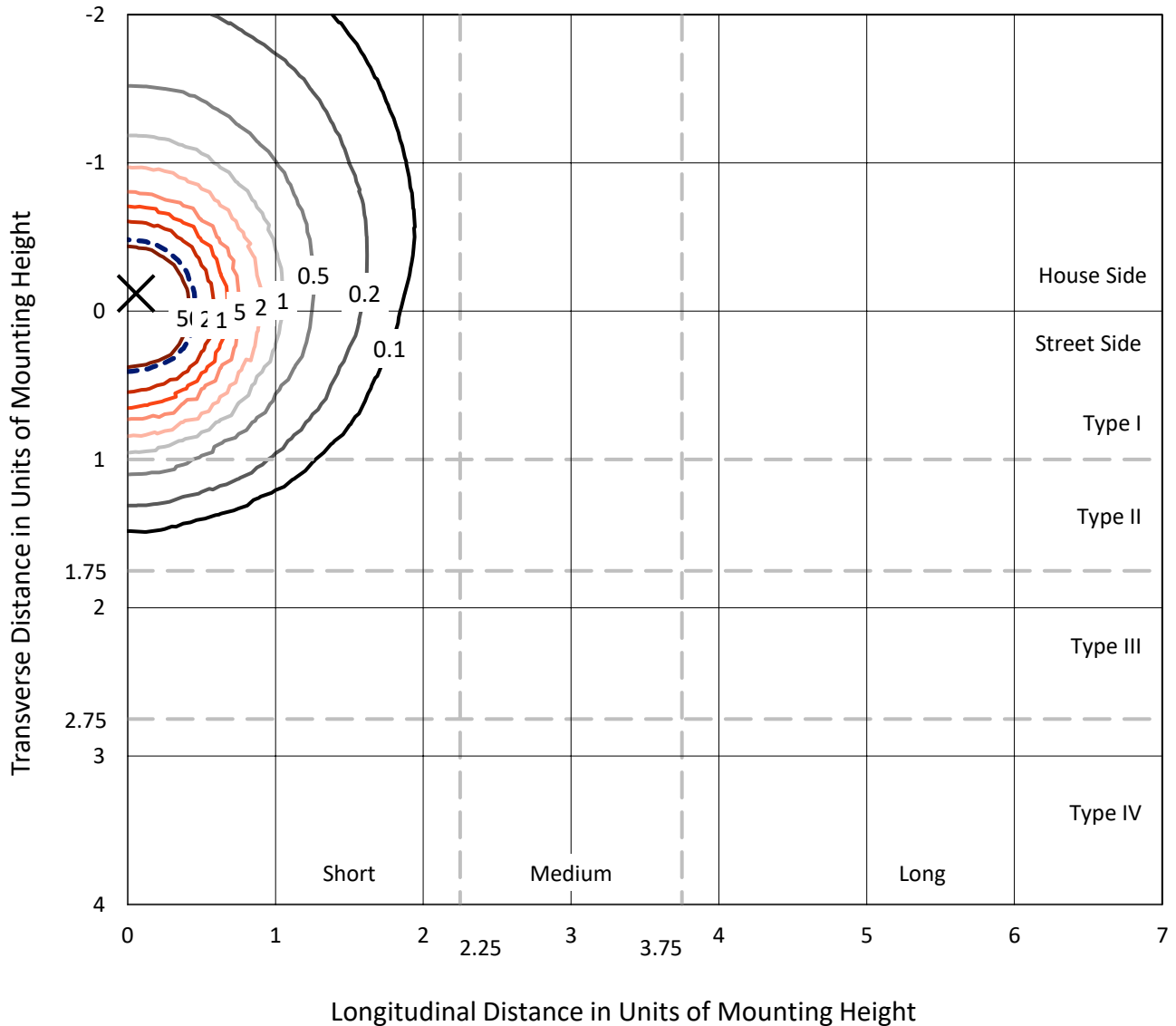
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

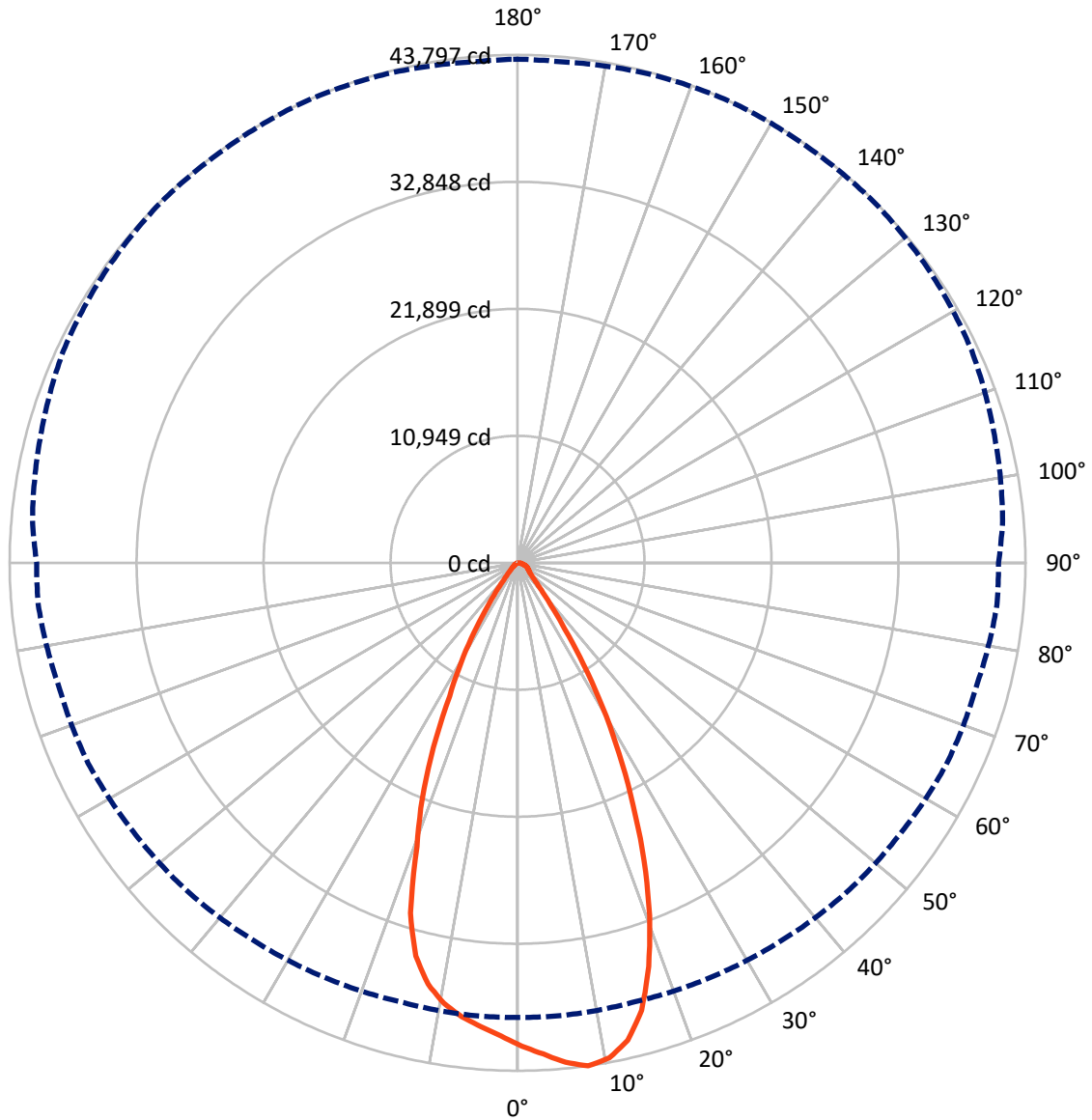
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 105.9 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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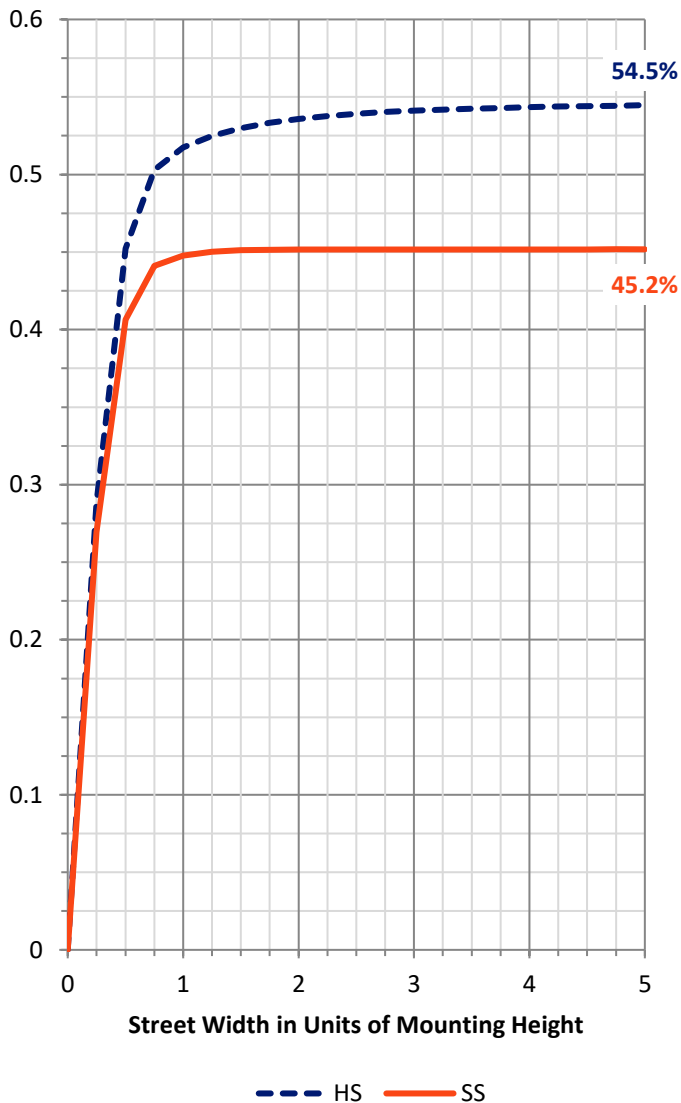
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16514.8	0.0	16514.8
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	13401.3	0.0	13401.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	29916.0	0.0	29916.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3974.0	13.3
10°-20°	10304.7	34.4
20°-30°	9441.9	31.6
30°-40°	3814.5	12.8
40°-50°	1119.0	3.7
50°-60°	625.7	2.1
60°-70°	380.0	1.3
70°-80°	193.1	0.6
80°-90°	63.1	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°	29916.0	100.0
0°-180°	29916.0	100.0

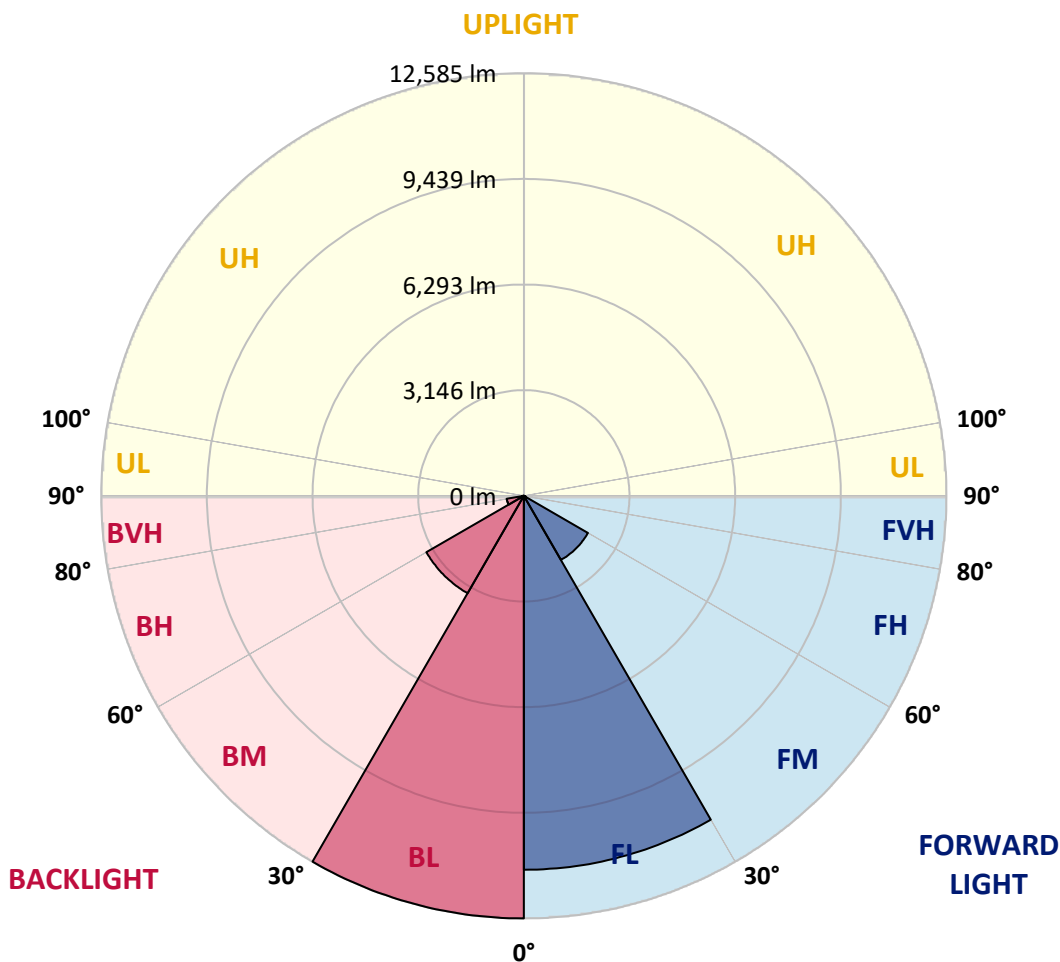


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11135.5	37.2			
FM (30°-60°)	2206.9	7.4			
FH (60°-80°)	53.4	0.2			G0/660
FVH (80°-90°)	5.5	0.0			G0/10
BL (0°-30°)	12585.1	42.1	B5		
BM (30°-60°)	3352.4	11.2	B3/5000		
BH (60°-80°)	519.6	1.7	B2/1000		G2/1000
BVH (80°-90°)	57.7	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°	41675.4	41675.4	41675.4	41675.4	41675.4	41675.4	41675.4	41675.4	41675.4	41675.4
2.5°	40771.6	40909.6	40633.6	40816.5	40957.9	41296.0	41323.6	41440.8	41482.2	41789.3
5°	39998.9	40105.8	39881.6	40126.5	40326.6	40626.7	40857.9	41182.1	41361.5	41723.7
7.5°	39195.1	39219.3	39174.4	39433.1	39733.3	40147.2	40433.5	40857.9	40968.2	41485.7
10°	38222.3	38046.4	38132.6	38512.1	38960.5	39595.3	39791.9	40216.2	40412.8	40940.6
12.5°	36670.0	36759.7	36652.7	37135.7	37508.2	38229.2	38436.2	38863.9	39240.0	39705.7
15°	34482.9	34431.1	34648.5	35024.5	35428.1	36000.7	36335.3	36801.0	37087.4	37570.3
17.5°	29567.1	29743.0	30639.9	31581.7	32409.6	33078.9	33479.0	33865.4	34072.4	34596.7
20°	25534.4	25313.7	25434.4	25965.6	28321.8	29346.3	29767.2	29860.3	29946.6	30360.5
22.5°	21025.7	20953.3	21356.9	21953.7	22512.5	24875.5	25448.2	25230.9	25410.2	25800.1
25°	15613.2	15978.9	16337.6	17482.9	18207.3	19366.4	20453.1	20549.7	20615.2	20860.1
27.5°	12708.6	12580.9	12574.0	12894.9	13964.3	14930.2	15854.7	16068.5	16030.6	16265.2
30°	9990.2	9948.8	9804.0	9879.8	9772.9	10631.9	11066.5	11946.2	11897.9	11904.8
32.5°	7206.4	7051.1	6992.5	7106.3	6995.9	6916.6	7296.0	8289.5	8272.3	8341.3
35°	4360.4	4339.7	4388.0	4488.0	4267.2	4260.3	4339.7	5274.5	5388.4	5498.8
37.5°	2407.9	2387.2	2425.1	2794.2	2721.8	2656.2	2676.9	3170.2	3498.0	3580.8
40°	1586.8	1583.4	1611.0	1676.5	1800.7	1776.6	1786.9	2007.7	2318.2	2390.6
42.5°	1062.5	1065.9	1083.2	1159.1	1176.3	1300.5	1279.8	1331.6	1621.3	1683.4
45°	848.6	845.2	855.5	821.0	841.7	969.4	983.2	986.6	1235.0	1272.9
47.5°	669.2	669.2	679.6	634.7	624.4	703.7	776.2	786.5	986.6	1038.3
50°	469.2	469.2	520.9	500.2	524.3	548.5	627.8	638.2	807.2	862.4
52.5°	345.0	351.9	358.8	362.2	441.6	438.1	507.1	555.4	610.6	707.2
55°	262.2	269.1	251.8	269.1	327.7	365.7	379.5	448.5	486.4	593.3
57.5°	172.5	189.7	175.9	207.0	220.8	282.9	303.6	369.1	393.3	486.4
60°	24.1	27.6	44.8	144.9	155.2	186.3	234.6	293.2	317.4	396.7
62.5°	3.4	3.4	10.3	24.1	103.5	124.2	175.9	203.5	234.6	296.7
65°	0.0	0.0	3.4	6.9	20.7	72.4	89.7	110.4	162.1	213.9
67.5°	0.0	0.0	3.4	6.9	10.3	24.1	37.9	72.4	93.1	148.3
70°	0.0	0.0	3.4	6.9	10.3	13.8	20.7	27.6	55.2	86.2
72.5°	0.0	0.0	3.4	6.9	10.3	13.8	17.2	20.7	24.1	55.2
75°	0.0	0.0	3.4	6.9	10.3	17.2	20.7	20.7	20.7	24.1
77.5°	0.0	0.0	3.4	6.9	13.8	20.7	24.1	20.7	17.2	17.2
80°	0.0	0.0	3.4	10.3	17.2	24.1	27.6	20.7	13.8	10.3
82.5°	0.0	0.0	3.4	10.3	17.2	24.1	27.6	24.1	13.8	10.3
85°	0.0	0.0	3.4	10.3	13.8	17.2	27.6	24.1	13.8	6.9
87.5°	0.0	0.0	0.0	3.4	3.4	6.9	13.8	10.3	6.9	3.4
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°
41675.4	0°	41675.4	41675.4	41675.4	41675.4	41675.4	41675.4	41675.4	41675.4	41675.4
41782.4	2.5°	42092.8	42248.1	42520.6	42596.5	42831.1	42562.0	42413.7	42427.5	42106.6
41678.9	5°	42092.8	42448.2	42924.2	43151.9	43324.4	43310.6	43272.6	43176.0	42941.5
41471.9	7.5°	41982.4	42562.0	43217.4	43521.0	43728.0	43710.7	43797.0	43641.7	43355.4
41102.8	10°	41627.1	42130.8	42938.0	43186.4	43521.0	43527.9	43421.0	43452.0	42941.5
39754.0	12.5°	40509.4	40902.7	41609.9	41892.8	42299.8	42365.4	42248.1	42203.2	41720.3
37542.7	15°	38346.5	38574.2	39284.8	39567.7	39971.3	39916.1	40033.4	39985.1	39560.8
34555.3	17.5°	35183.2	35255.6	36000.7	36238.8	36618.2	36766.5	36590.6	36814.8	36449.2
30433.0	20°	30646.8	31036.7	31874.9	32240.6	32461.4	32727.0	32495.9	32747.7	32319.9
25430.9	22.5°	26045.0	26276.1	27035.0	27562.8	27973.3	28025.1	27938.9	28114.8	27538.7
21022.3	25°	21018.8	21401.7	22002.0	22691.9	23095.5	23343.9	23119.7	23233.5	23140.4
16303.1	27.5°	16579.1	16920.6	17372.5	17886.5	18493.7	18817.9	18638.6	18831.7	18376.4
12156.6	30°	12167.0	12339.5	12850.0	13395.1	14060.8	14454.1	14471.4	14668.0	14398.9
8517.2	32.5°	8579.3	8731.1	9045.0	9407.2	10042.0	10480.1	10411.1	10438.7	10273.1
5550.5	35°	5578.1	5781.6	6005.9	6178.4	6561.3	7044.2	7006.3	6971.8	6857.9
3649.7	37.5°	3729.1	3808.4	3932.6	4087.9	4336.2	4639.8	4739.8	4615.7	4567.4
2463.1	40°	2521.7	2659.7	2742.5	2859.8	2977.1	3232.3	3301.3	3277.2	3228.9
1724.8	42.5°	1790.4	1897.3	2000.8	2114.6	2176.7	2335.4	2470.0	2432.0	2411.3
1310.9	45°	1359.2	1455.8	1576.5	1662.7	1724.8	1818.0	1945.6	1959.4	1928.4
1052.1	47.5°	1090.1	1176.3	1272.9	1379.9	1452.3	1511.0	1621.3	1662.7	1642.0
886.6	50°	924.5	990.1	1083.2	1190.1	1269.5	1321.2	1417.8	1462.7	1448.9
741.7	52.5°	786.5	865.9	952.1	1041.8	1138.4	1190.1	1279.8	1345.4	1335.0
614.0	55°	652.0	755.5	845.2	934.9	1045.2	1097.0	1176.3	1262.6	1245.3
520.9	57.5°	569.2	655.4	748.6	834.8	952.1	1021.1	1093.5	1183.2	1179.8
427.8	60°	476.1	562.3	665.8	738.2	862.4	959.0	1024.6	1117.7	1124.6
324.3	62.5°	379.5	486.4	565.7	665.8	779.6	893.5	955.6	1048.7	1083.2
248.4	65°	282.9	400.2	489.9	589.9	696.8	824.5	879.7	972.8	1007.3
179.4	67.5°	210.4	300.1	414.0	500.2	620.9	731.3	796.9	883.1	907.3
106.9	70°	158.7	231.1	345.0	420.9	545.0	634.7	700.3	765.8	796.9
72.4	72.5°	93.1	172.5	272.5	362.2	469.2	545.0	593.3	645.1	665.8
34.5	75°	65.5	131.1	213.9	300.1	379.5	441.6	486.4	531.2	551.9
17.2	77.5°	34.5	96.6	169.0	241.5	296.7	348.4	393.3	427.8	441.6
13.8	80°	20.7	69.0	138.0	189.7	227.7	272.5	317.4	341.5	338.1
10.3	82.5°	13.8	55.2	100.0	138.0	165.6	200.1	231.1	248.4	248.4
6.9	85°	10.3	37.9	69.0	106.9	110.4	138.0	144.9	162.1	165.6
6.9	87.5°	6.9	24.1	37.9	62.1	58.6	72.4	75.9	86.2	93.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
41675.4
41847.9
43017.3
43421.0
42793.1
41609.9
39695.3
36359.5
32285.4
27459.3
23081.7
18493.7
14447.2
10366.2
6757.9
4557.0
3235.8
2394.1
1924.9
1631.7
1445.4
1328.1
1245.3
1176.3
1124.6
1079.7
1003.9
907.3
790.0
658.9
545.0
438.1
334.6
244.9
162.1
89.7
0.0

(END OF REPORT)