

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: P638748

Luminaire Tested: **EPH-VN-08-D-750-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638748
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-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48083.6 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

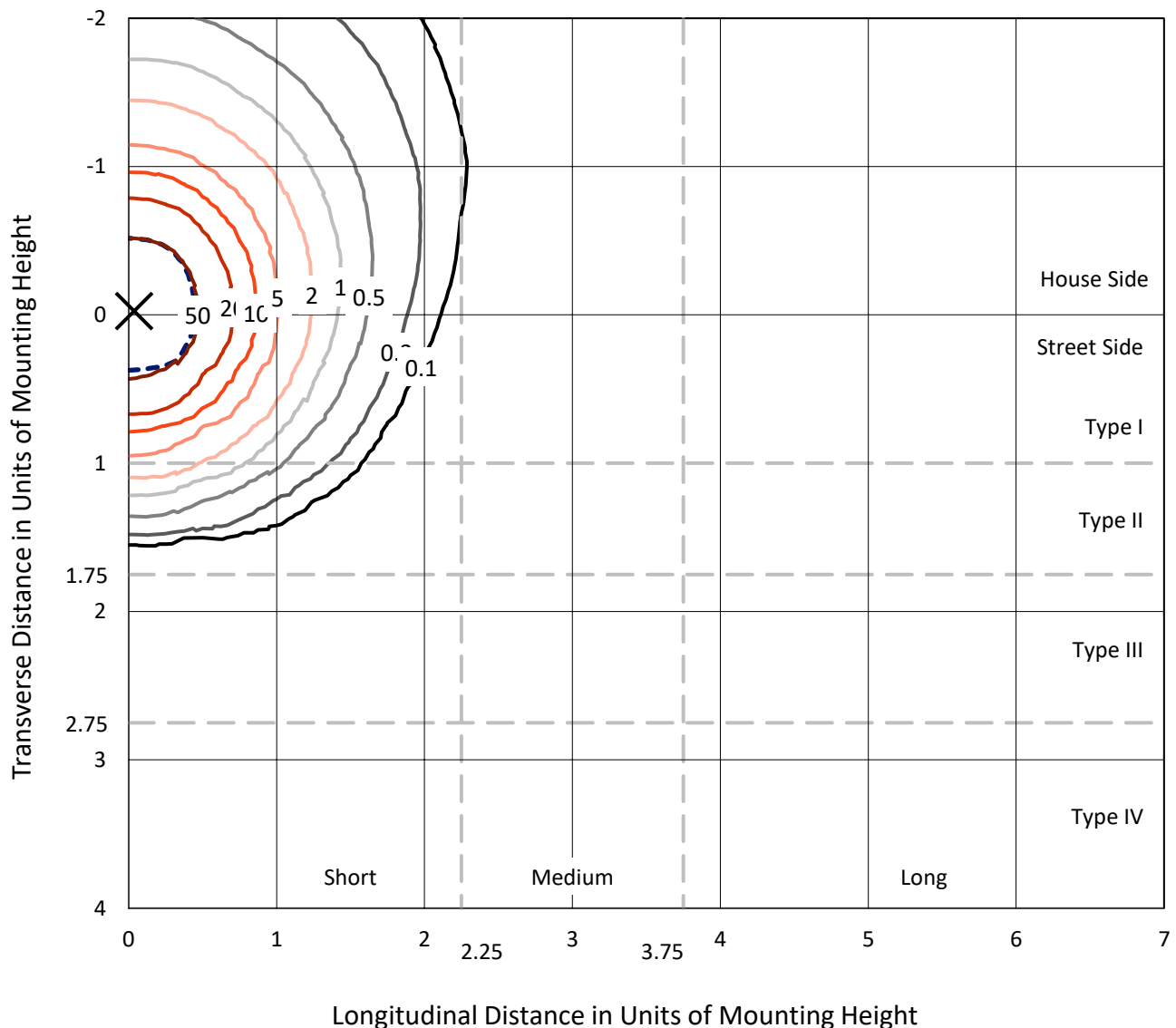
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638748
 CATALOG NUMBER: EPH-VN-08-D-750-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

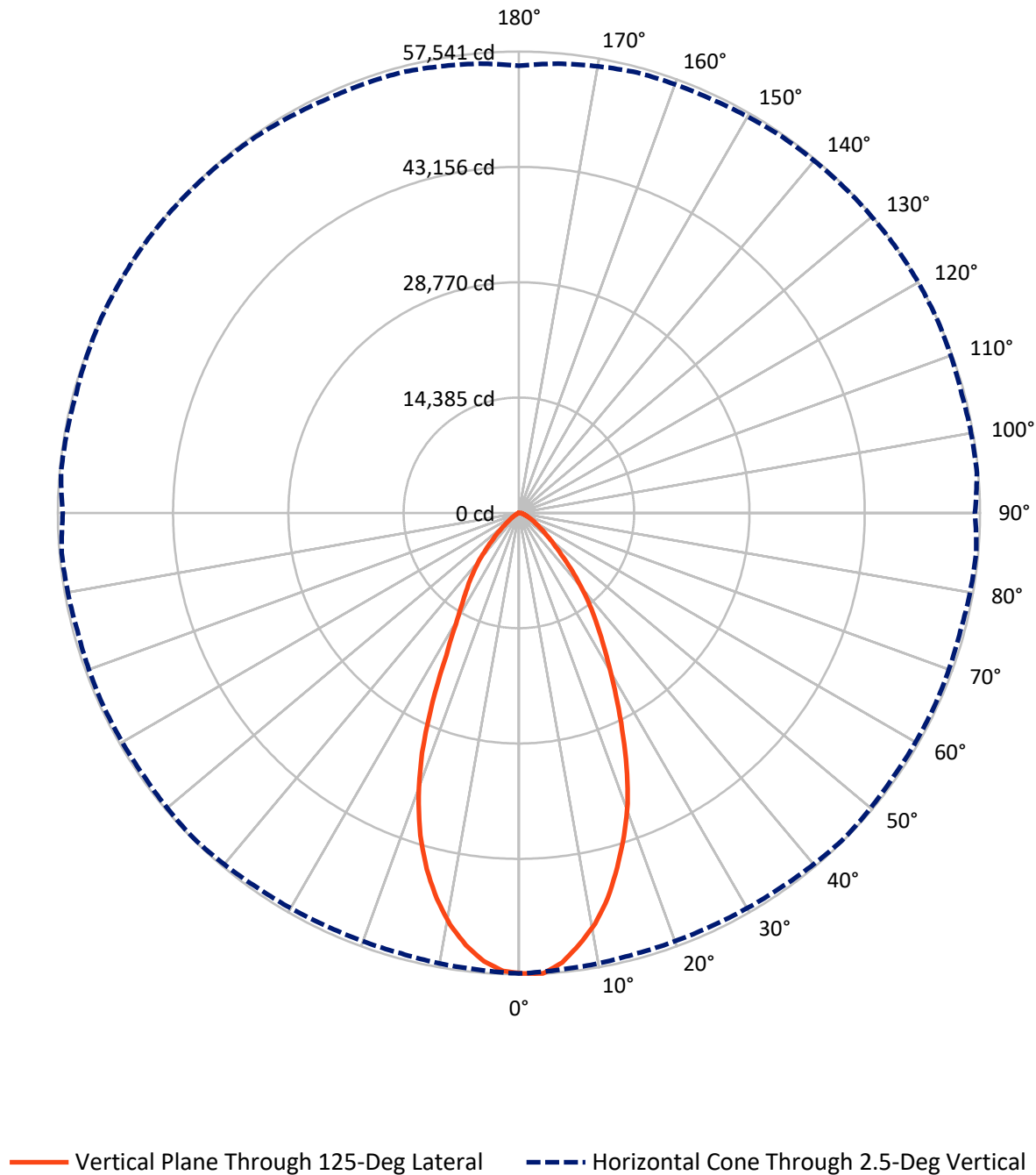
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 143.6 fc
 Type I - Short - N/A

REPORT NUMBER: P638748
CATALOG NUMBER: EPH-VN-08-D-750-U-66-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P638748

CATALOG NUMBER: EPH-VN-08-D-750-U-66-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27284.5	0.0	27284.5
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	20799.1	0.0	20799.1
	% Fixture	43.3	0.0	43.3
Total	Lumens	48083.6	0.0	48083.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5216.5	10.8
10°-20°	12435.0	25.9
20°-30°	12664.8	26.3
30°-40°	9444.1	19.6
40°-50°	4933.8	10.3
50°-60°	2075.2	4.3
60°-70°	847.5	1.8
70°-80°	356.7	0.7
80°-90°	109.9	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°	48083.6	100.0
0°-180°	48083.6	100.0

Coefficient of Utilization



REPORT NUMBER: P638748

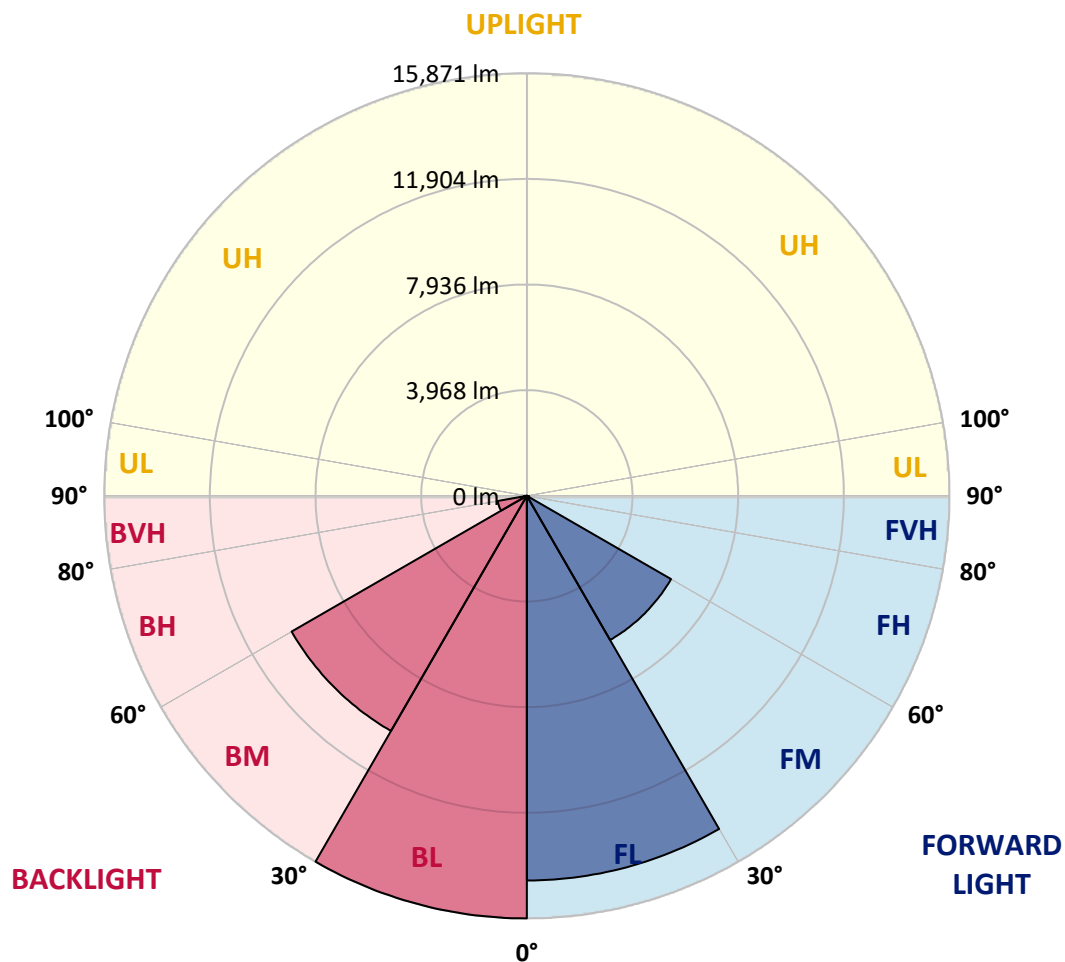
CATALOG NUMBER: EPH-VN-08-D-750-U-66-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	14444.9	30.0			
FM	(30°-60°)	6253.5	13.0			
FH	(60°-80°)	90.5	0.2			G0/660
FVH	(80°-90°)	10.2	0.0			G1/100
BL	(0°-30°)	15871.4	33.0	B5		
BM	(30°-60°)	10199.7	21.2	B5		
BH	(60°-80°)	1113.7	2.3	B3/2500		G3/2500
BVH	(80°-90°)	99.7	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-G3

Type I Short



REPORT NUMBER: P638748

CATALOG NUMBER: EPH-VN-08-D-750-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	57448.2	57448.2	57448.2	57448.2	57448.2	57448.2	57448.2	57448.2	57448.2	57448.2
2.5°	57454.4	57219.7	56886.2	56855.3	57028.2	57405.0	57164.1	57176.5	57028.2	57281.5
5°	56552.6	56330.3	56101.7	55799.1	56052.3	56212.9	56089.4	55953.5	55762.0	56009.1
7.5°	54847.9	54724.4	54384.6	54248.8	54403.2	54582.3	54316.7	54279.6	54014.0	54335.2
10°	52241.4	52192.0	51858.4	51778.1	51914.0	52185.8	52068.4	52043.7	51877.0	51846.1
12.5°	49536.0	49344.6	48930.7	48906.0	49109.9	49517.5	49202.5	48899.9	48992.5	49072.8
15°	42568.9	42365.1	43390.4	45002.4	45848.6	45817.7	45910.4	45546.0	45434.8	45471.9
17.5°	33841.4	33495.5	33866.1	36361.4	40382.4	42717.1	42074.8	41290.3	40870.3	40592.4
20°	29209.0	29227.5	29159.6	29801.9	32309.6	37633.8	37479.4	35966.1	35416.4	35187.9
22.5°	26392.5	26287.5	26139.2	26343.0	27016.3	30141.6	32235.5	30845.8	30654.3	30401.0
25°	23631.5	23631.5	23452.4	23656.2	23847.7	23890.9	25991.0	26559.2	26188.6	26188.6
27.5°	21241.2	21117.7	21037.4	21130.0	20876.8	19660.0	19925.6	22834.8	22581.5	22427.1
30°	18869.4	18832.3	18696.5	18820.0	17881.2	16510.0	15954.1	19270.9	19536.5	19480.9
32.5°	15577.3	15725.5	16330.8	16522.3	14916.4	13810.8	13279.6	15997.3	17059.7	17016.4
35°	10586.6	10710.2	11401.9	13687.3	12365.5	11574.9	11420.5	12723.7	14471.7	14638.5
37.5°	8431.0	8412.5	8610.1	9017.8	9938.1	9746.6	9703.4	10043.1	11803.4	11877.5
40°	6948.6	6923.9	6917.8	6584.2	6355.7	8103.7	7986.3	7782.5	9308.1	9456.3
42.5°	5602.1	5626.8	5645.4	4916.5	4583.0	6250.7	6182.7	5972.7	7300.7	7473.6
45°	4397.7	4391.5	4428.6	3662.7	3570.1	3996.2	4620.1	4453.3	5509.5	5694.8
47.5°	2279.2	2359.4	2859.7	2835.0	2878.3	2835.0	3495.9	3452.7	4144.5	4440.9
50°	1531.8	1556.5	1599.7	1605.9	2266.8	2087.7	2371.8	2686.8	2903.0	3360.1
52.5°	1185.9	1204.4	1093.3	1025.3	1389.7	1544.1	1556.5	1859.1	2025.9	2489.2
55°	660.9	741.2	796.8	803.0	765.9	1142.7	1136.5	1377.4	1507.1	1815.9
57.5°	86.5	105.0	160.6	518.8	512.7	636.2	796.8	1000.6	1074.7	1328.0
60°	6.2	12.4	18.5	80.3	339.7	370.6	543.5	623.8	747.4	932.7
62.5°	0.0	0.0	6.2	18.5	67.9	216.2	284.1	327.4	438.5	611.5
65°	0.0	0.0	6.2	12.4	24.7	80.3	111.2	179.1	259.4	376.8
67.5°	0.0	0.0	6.2	12.4	18.5	30.9	49.4	80.3	135.9	228.5
70°	0.0	0.0	6.2	12.4	18.5	24.7	37.1	49.4	74.1	123.5
72.5°	0.0	0.0	6.2	6.2	12.4	30.9	30.9	37.1	49.4	67.9
75°	0.0	0.0	6.2	12.4	18.5	30.9	30.9	30.9	37.1	43.2
77.5°	0.0	0.0	6.2	12.4	18.5	30.9	24.7	30.9	30.9	30.9
80°	0.0	0.0	6.2	12.4	18.5	30.9	37.1	30.9	24.7	24.7
82.5°	0.0	0.0	6.2	18.5	18.5	43.2	43.2	43.2	18.5	18.5
85°	0.0	0.0	12.4	18.5	30.9	49.4	49.4	37.1	18.5	12.4
87.5°	0.0	0.0	6.2	12.4	12.4	24.7	37.1	30.9	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: P638748

CATALOG NUMBER: EPH-VN-08-D-750-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
57448.2	0°	57448.2	57448.2	57448.2	57448.2	57448.2	57448.2	57448.2	57448.2	57448.2
56910.9	2.5°	57367.9	57213.5	57503.8	57540.9	57417.3	57262.9	56904.7	56873.8	56250.0
55650.8	5°	56280.8	56027.6	56212.9	56336.4	56293.2	56126.4	55978.2	55842.3	55280.2
53606.4	7.5°	54254.9	54162.3	54248.8	54341.4	54520.5	54341.4	54279.6	54137.6	53581.7
51592.8	10°	52006.7	51833.7	52161.1	52117.8	52068.4	52019.0	51759.6	51784.3	51129.6
48850.4	12.5°	49245.7	48955.4	49270.4	49307.5	49270.4	49097.5	48807.2	48930.7	48331.6
45144.5	15°	45533.6	45502.7	45731.3	45879.5	45984.5	45799.2	45700.4	45762.2	45403.9
40376.2	17.5°	40975.3	41376.8	42124.2	42377.4	42383.6	42575.1	42519.5	42445.3	42179.8
35095.2	20°	35614.1	36386.1	37535.0	38714.7	39054.4	38893.8	38819.7	38955.6	38560.3
30135.5	22.5°	30666.6	31327.5	32661.7	34384.9	35379.4	35478.2	35459.7	35342.3	35187.9
26163.9	25°	26466.6	27053.3	28331.9	29906.9	31815.5	32099.6	32112.0	32074.9	31939.0
22563.0	27.5°	22921.2	23631.5	24335.7	25743.9	27776.0	28949.6	28801.3	28758.1	28708.7
19524.1	30°	19709.4	20605.0	21265.9	22143.0	23965.1	25552.4	25706.9	25632.7	25515.4
17010.3	32.5°	17164.7	17695.9	18535.9	19128.8	20438.2	22235.6	22828.6	22773.0	22668.0
14743.5	35°	14953.5	15163.5	15824.4	16485.2	17356.1	19097.9	19975.0	19851.5	19832.9
12013.4	37.5°	12316.1	13020.2	13384.6	14051.7	14663.2	16015.8	17226.4	17170.8	17177.0
9660.1	40°	9944.3	10351.9	11074.6	11636.6	12198.7	13187.0	14533.5	14570.5	14558.2
7479.8	42.5°	7634.2	8029.5	8789.3	9400.7	9901.0	10512.5	11797.2	11840.5	11896.1
5824.5	45°	5960.4	6213.6	6769.5	7405.7	7936.9	8307.5	9283.4	9561.3	9567.5
4515.1	47.5°	4626.2	4916.5	5311.8	5923.3	6442.2	6707.7	7418.1	7794.8	7776.3
3465.1	50°	3631.8	3897.4	4218.6	4700.4	5262.4	5472.4	5997.4	6368.0	6349.5
2612.7	52.5°	2779.5	3119.2	3403.3	3773.9	4323.6	4502.7	4879.5	5305.7	5243.9
1914.7	55°	2106.2	2452.1	2717.7	3026.5	3526.8	3755.4	4014.8	4354.5	4366.8
1482.4	57.5°	1587.4	1945.6	2186.5	2501.5	2878.3	3131.5	3329.2	3693.6	3687.4
1013.0	60°	1136.5	1445.3	1735.6	2063.0	2353.3	2643.6	2779.5	3125.3	3137.7
716.5	62.5°	821.5	1111.8	1389.7	1673.8	1933.3	2217.4	2340.9	2612.7	2649.7
469.4	65°	574.4	778.2	1099.4	1315.6	1605.9	1815.9	1976.5	2211.2	2254.4
277.9	67.5°	370.6	562.1	870.9	1062.4	1328.0	1507.1	1673.8	1859.1	1914.7
179.1	70°	222.4	426.2	648.5	852.4	1093.3	1253.8	1414.4	1575.0	1605.9
86.5	72.5°	142.1	296.5	469.4	691.8	877.1	1050.0	1192.1	1309.4	1216.8
55.6	75°	80.3	203.8	370.6	543.5	710.3	877.1	994.4	1056.2	846.2
37.1	77.5°	49.4	148.2	302.7	438.5	549.7	704.1	778.2	815.3	605.3
24.7	80°	30.9	111.2	253.2	358.2	358.2	518.8	605.3	636.2	438.5
18.5	82.5°	24.7	80.3	197.7	271.8	240.9	389.1	475.6	481.8	308.8
12.4	85°	18.5	61.8	123.5	179.1	166.8	271.8	277.9	308.8	203.8
12.4	87.5°	12.4	37.1	74.1	105.0	92.6	129.7	148.2	166.8	111.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
57448.2
55762.0
54829.4
53464.3
50907.2
48158.7
44971.6
41784.5
38276.2
34891.4
31481.9
28418.4
25367.1
22390.0
19629.1
16979.4
14342.0
11710.8
9406.9
7708.4
6349.5
5250.1
4366.8
3675.1
3106.8
2637.4
2242.1
1908.6
1581.2
1130.3
803.0
568.2
407.7
284.1
185.3
98.8
0.0

(END OF REPORT)