

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: P638736

Luminaire Tested: **EPH-VN-08-D-735-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638736
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-735-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46363.1 lumens
Efficiency: N/A
Efficacy: 94.9 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



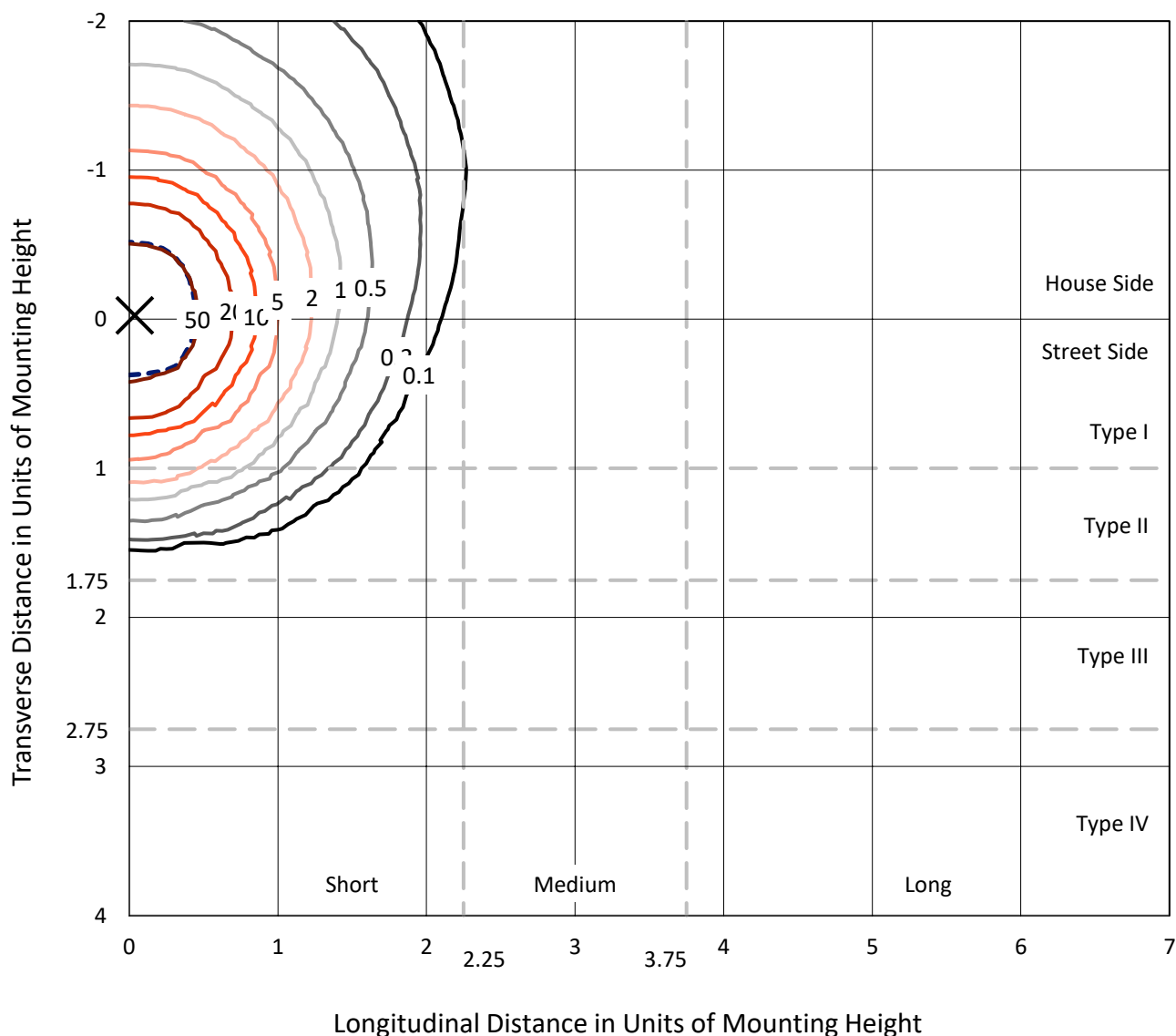
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

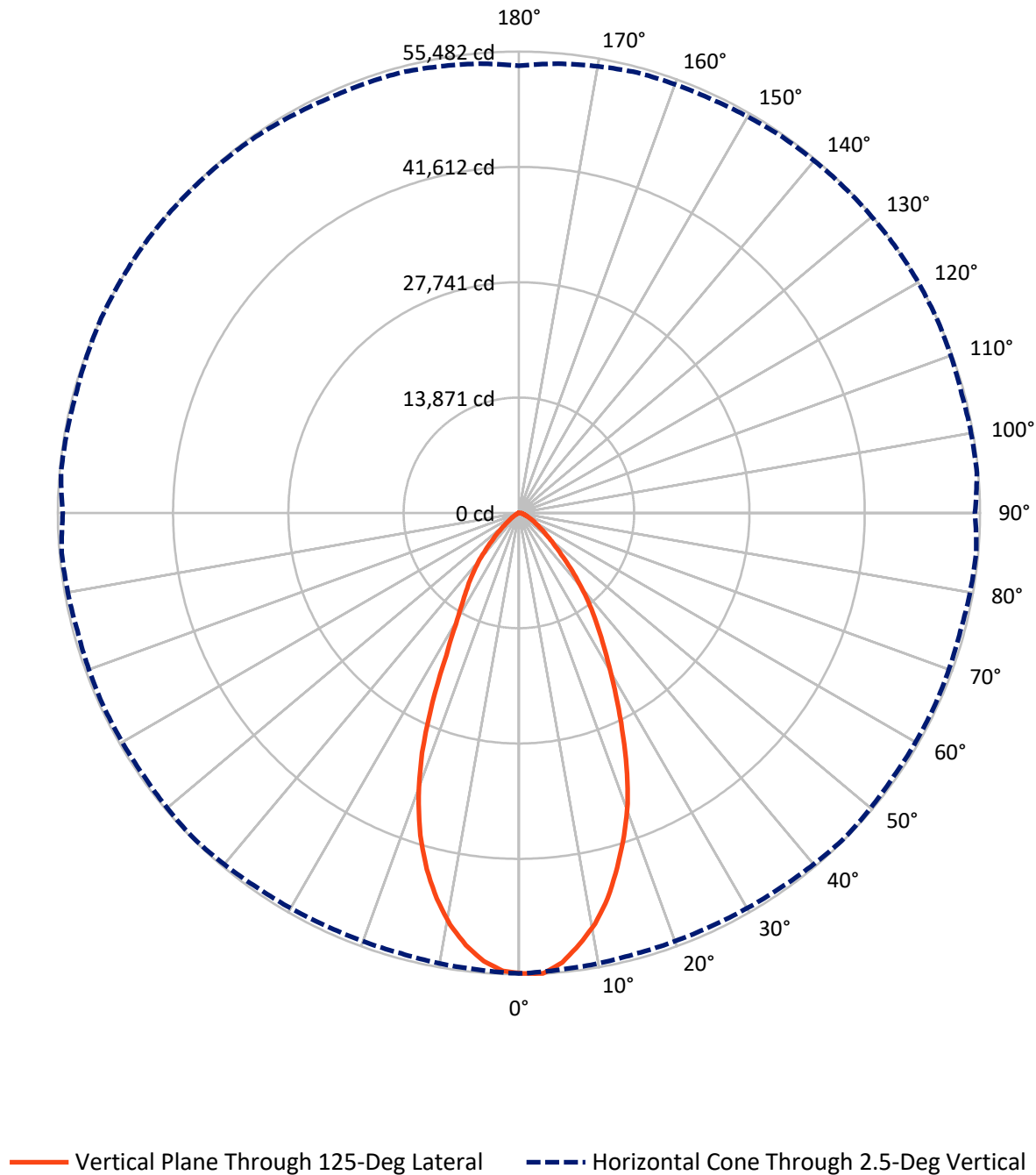


Based on 20 foot mounting height. Maximum calculated value = 138.5 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26308.3	0.0	26308.3
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	20054.8	0.0	20054.8
	% Fixture	43.3	0.0	43.3
Total	Lumens	46363.1	0.0	46363.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5029.9	10.8
10°-20°	11990.1	25.9
20°-30°	12211.7	26.3
30°-40°	9106.2	19.6
40°-50°	4757.3	10.3
50°-60°	2000.9	4.3
60°-70°	817.2	1.8
70°-80°	343.9	0.7
80°-90°	106.0	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°	46363.1	100.0
0°-180°	46363.1	100.0

Coefficient of Utilization



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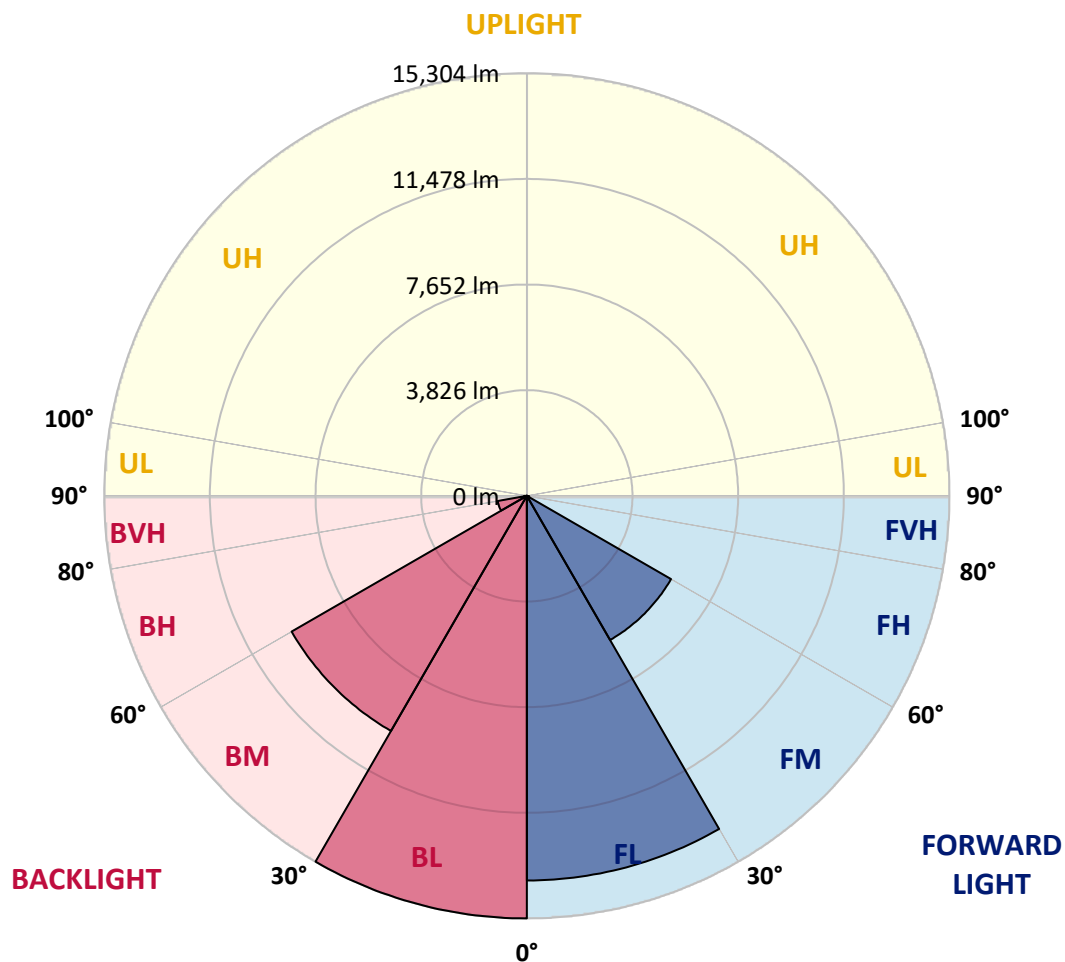
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	13928.1	30.0			
FM	(30°-60°)	6029.7	13.0			
FH	(60°-80°)	87.2	0.2			G0/660
FVH	(80°-90°)	9.9	0.0			G0/10
BL	(0°-30°)	15303.5	33.0	B5		
BM	(30°-60°)	9834.8	21.2	B5		
BH	(60°-80°)	1073.8	2.3	B3/2500		G3/2500
BVH	(80°-90°)	96.1	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	55392.7	55392.7	55392.7	55392.7	55392.7	55392.7	55392.7	55392.7	55392.7	55392.7
2.5°	55398.6	55172.3	54850.7	54821.0	54987.7	55351.0	55118.7	55130.6	54987.7	55231.9
5°	54529.1	54314.7	54094.4	53802.6	54046.7	54201.6	54082.5	53951.4	53766.8	54005.0
7.5°	52885.4	52766.3	52438.7	52307.7	52456.6	52629.3	52373.2	52337.5	52081.4	52391.1
10°	50372.1	50324.5	50002.9	49925.5	50056.5	50318.5	50205.4	50181.6	50020.8	49991.0
12.5°	47763.6	47579.0	47180.0	47156.1	47352.7	47745.7	47442.0	47150.2	47239.5	47316.9
15°	41045.7	40849.2	41837.8	43392.2	44208.1	44178.4	44267.7	43916.3	43809.1	43844.9
17.5°	32630.5	32297.0	32654.3	35060.4	38937.5	41188.7	40569.3	39812.9	39408.0	39140.0
20°	28163.9	28181.7	28116.2	28735.6	31153.5	36287.2	36138.4	34679.2	34149.2	33928.8
22.5°	25448.1	25346.9	25203.9	25400.5	26049.6	29063.1	31082.1	29742.1	29557.5	29313.3
25°	22786.0	22786.0	22613.3	22809.8	22994.4	23036.1	25061.0	25608.9	25251.6	25251.6
27.5°	20481.2	20362.1	20284.6	20374.0	20129.8	18956.6	19212.6	22017.7	21773.5	21624.6
30°	18194.2	18158.5	18027.5	18146.6	17241.4	15919.2	15383.2	18581.4	18837.4	18783.8
32.5°	15019.9	15162.9	15746.5	15931.1	14382.7	13316.6	12804.5	15424.9	16449.3	16407.6
35°	10207.8	10326.9	10994.0	13197.5	11923.0	11160.7	11011.8	12268.5	13953.9	14114.7
37.5°	8129.3	8111.5	8302.1	8695.1	9582.5	9397.9	9356.2	9683.7	11381.1	11452.5
40°	6700.0	6676.2	6670.2	6348.6	6128.3	7813.7	7700.5	7504.0	8975.0	9118.0
42.5°	5401.7	5425.5	5443.4	4740.6	4419.0	6027.0	5961.5	5759.0	7039.5	7206.2
45°	4240.4	4234.4	4270.1	3531.6	3442.3	3853.2	4454.8	4294.0	5312.4	5491.0
47.5°	2197.6	2275.0	2757.4	2733.6	2775.3	2733.6	3370.8	3329.2	3996.2	4282.0
50°	1477.0	1500.8	1542.5	1548.4	2185.7	2013.0	2286.9	2590.7	2799.1	3239.8
52.5°	1143.5	1161.3	1054.1	988.6	1340.0	1488.9	1500.8	1792.6	1953.4	2400.1
55°	637.2	714.7	768.3	774.2	738.5	1101.8	1095.8	1328.1	1453.2	1750.9
57.5°	83.4	101.2	154.8	500.3	494.3	613.4	768.3	964.8	1036.3	1280.4
60°	6.0	11.9	17.9	77.4	327.6	357.3	524.1	601.5	720.6	899.3
62.5°	0.0	0.0	6.0	17.9	65.5	208.4	274.0	315.6	422.8	589.6
65°	0.0	0.0	6.0	11.9	23.8	77.4	107.2	172.7	250.1	363.3
67.5°	0.0	0.0	6.0	11.9	17.9	29.8	47.6	77.4	131.0	220.4
70°	0.0	0.0	6.0	11.9	17.9	23.8	35.7	47.6	71.5	119.1
72.5°	0.0	0.0	6.0	6.0	11.9	29.8	29.8	35.7	47.6	65.5
75°	0.0	0.0	6.0	11.9	17.9	29.8	29.8	29.8	35.7	41.7
77.5°	0.0	0.0	6.0	11.9	17.9	29.8	23.8	29.8	29.8	29.8
80°	0.0	0.0	6.0	11.9	17.9	29.8	35.7	29.8	23.8	23.8
82.5°	0.0	0.0	6.0	17.9	17.9	41.7	41.7	41.7	17.9	17.9
85°	0.0	0.0	11.9	17.9	29.8	47.6	47.6	35.7	17.9	11.9
87.5°	0.0	0.0	6.0	11.9	11.9	23.8	35.7	29.8	11.9	6.0
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°
55392.7	0°	55392.7	55392.7	55392.7	55392.7	55392.7	55392.7	55392.7	55392.7	55392.7
54874.6	2.5°	55315.3	55166.4	55446.3	55482.0	55362.9	55214.0	54868.6	54838.8	54237.3
53659.6	5°	54267.1	54022.9	54201.6	54320.7	54279.0	54118.2	53975.3	53844.2	53302.3
51688.3	7.5°	52313.7	52224.3	52307.7	52397.0	52569.7	52397.0	52337.5	52200.5	51664.5
49746.8	10°	50145.8	49979.1	50294.7	50253.0	50205.4	50157.7	49907.6	49931.4	49300.1
47102.5	12.5°	47483.7	47203.8	47507.5	47543.3	47507.5	47340.8	47060.9	47180.0	46602.3
43529.2	15°	43904.4	43874.6	44095.0	44237.9	44339.2	44160.5	44065.2	44124.8	43779.3
38931.5	17.5°	39509.2	39896.3	40616.9	40861.1	40867.1	41051.7	40998.1	40926.6	40670.5
33839.5	20°	34339.8	35084.2	36192.0	37329.5	37657.0	37502.2	37430.7	37561.7	37180.6
29057.2	22.5°	29569.4	30206.6	31493.0	33154.6	34113.5	34208.8	34190.9	34077.7	33928.8
25227.8	25°	25519.6	26085.4	27318.2	28836.8	30677.1	30951.1	30963.0	30927.2	30796.2
21755.7	27.5°	22101.1	22786.0	23464.9	24822.8	26782.2	27913.7	27770.8	27729.1	27681.5
18825.5	30°	19004.2	19867.8	20505.0	21350.7	23107.6	24638.2	24787.1	24715.6	24602.4
16401.6	32.5°	16550.5	17062.7	17872.6	18444.4	19707.0	21440.0	22011.8	21958.2	21856.9
14215.9	35°	14418.4	14620.9	15258.2	15895.4	16735.1	18414.6	19260.3	19141.2	19123.3
11583.6	37.5°	11875.4	12554.3	12905.7	13548.9	14138.5	15442.8	16610.1	16556.5	16562.4
9314.5	40°	9588.5	9981.5	10678.3	11220.3	11762.2	12715.1	14013.4	14049.2	14037.3
7212.2	42.5°	7361.1	7742.2	8474.8	9064.4	9546.8	10136.4	11375.1	11416.8	11470.4
5616.1	45°	5747.1	5991.3	6527.3	7140.7	7652.9	8010.2	8951.2	9219.2	9225.2
4353.5	47.5°	4460.7	4740.6	5121.8	5711.4	6211.7	6467.7	7152.6	7515.9	7498.1
3341.1	50°	3501.9	3758.0	4067.6	4532.2	5074.1	5276.6	5782.9	6140.2	6122.3
2519.2	52.5°	2680.0	3007.6	3281.5	3638.8	4168.9	4341.6	4704.9	5115.8	5056.3
1846.2	55°	2030.8	2364.4	2620.4	2918.2	3400.6	3621.0	3871.1	4198.7	4210.6
1429.3	57.5°	1530.6	1876.0	2108.3	2412.0	2775.3	3019.5	3210.0	3561.4	3555.5
976.7	60°	1095.8	1393.6	1673.5	1989.2	2269.1	2549.0	2680.0	3013.5	3025.4
690.8	62.5°	792.1	1072.0	1340.0	1614.0	1864.1	2138.0	2257.2	2519.2	2554.9
452.6	65°	553.9	750.4	1060.1	1268.5	1548.4	1750.9	1905.8	2132.1	2173.8
268.0	67.5°	357.3	542.0	839.7	1024.4	1280.4	1453.2	1614.0	1792.6	1846.2
172.7	70°	214.4	410.9	625.3	821.9	1054.1	1209.0	1363.8	1518.7	1548.4
83.4	72.5°	137.0	285.9	452.6	667.0	845.7	1012.4	1149.4	1262.6	1173.2
53.6	75°	77.4	196.5	357.3	524.1	684.9	845.7	958.8	1018.4	815.9
35.7	77.5°	47.6	142.9	291.8	422.8	530.0	678.9	750.4	786.1	583.6
23.8	80°	29.8	107.2	244.2	345.4	345.4	500.3	583.6	613.4	422.8
17.9	82.5°	23.8	77.4	190.6	262.0	232.3	375.2	458.6	464.5	297.8
11.9	85°	17.9	59.6	119.1	172.7	160.8	262.0	268.0	297.8	196.5
11.9	87.5°	11.9	35.7	71.5	101.2	89.3	125.1	142.9	160.8	107.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
55392.7
53766.8
52867.5
51551.3
49085.7
46435.5
43362.5
40289.4
36906.6
33643.0
30355.5
27401.5
24459.5
21588.9
18926.8
16371.8
13828.8
11291.7
9070.3
7432.5
6122.3
5062.2
4210.6
3543.6
2995.6
2543.0
2161.9
1840.3
1524.6
1089.9
774.2
547.9
393.1
274.0
178.7
95.3
0.0

(END OF REPORT)