

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: STREETWORKS

Report Number: P638438

Luminaire Tested: **IFLD-M-SA4E-740-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638438
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-740-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26684.1 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

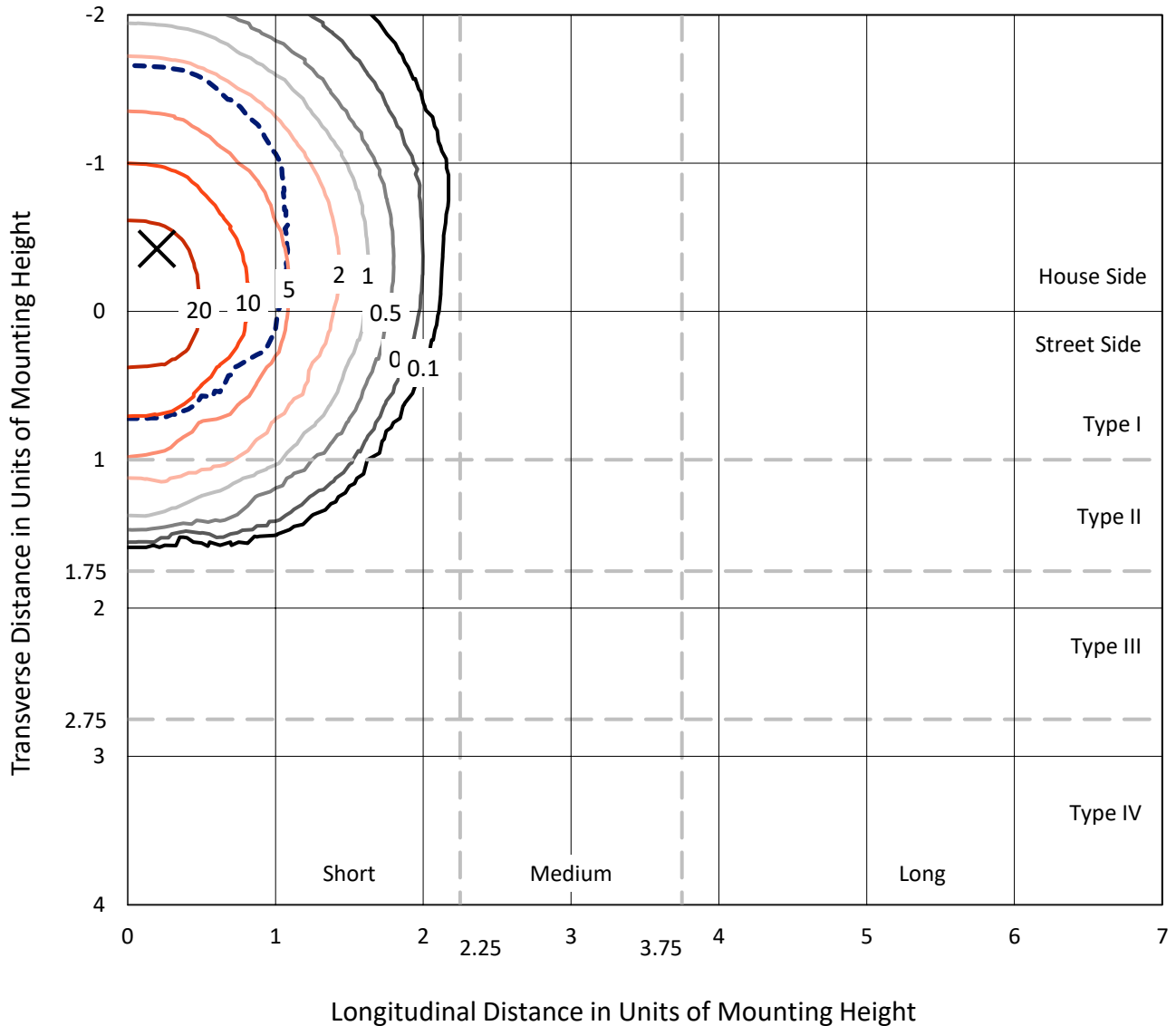
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638438
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Iso-Footcandle Lines of Horizontal Illumination

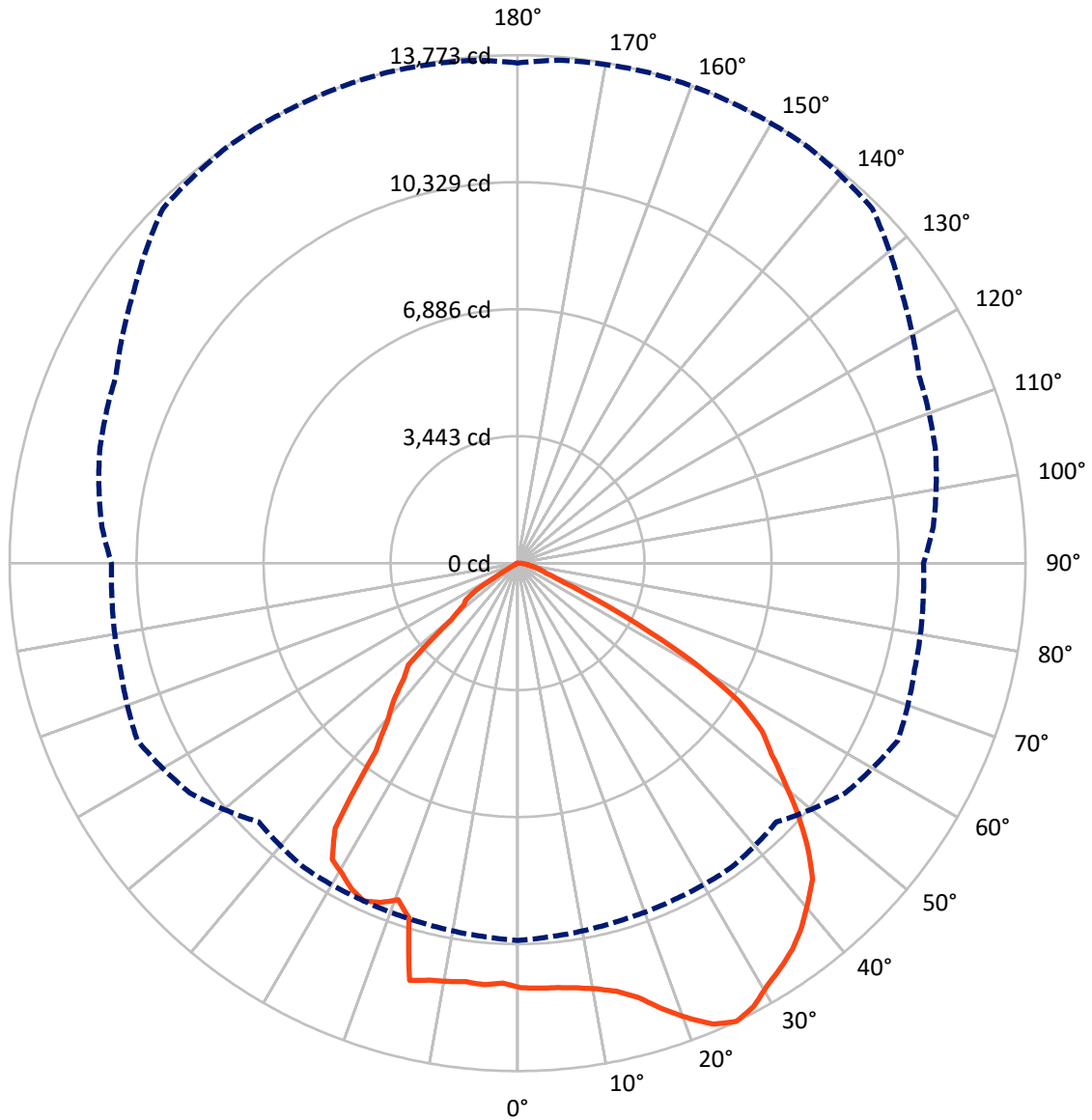
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 28.8 fc
 Type I - Short - N/A

REPORT NUMBER: P638438
CATALOG NUMBER: IFLD-M-SA4E-740-U-LAM-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16520.2	0.0	16520.2
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	10163.9	0.0	10163.9
	% Fixture	38.1	0.0	38.1
Total	Lumens	26684.1	0.0	26684.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1104.6	4.1
10°-20°	3372.8	12.6
20°-30°	5332.2	20.0
30°-40°	6023.2	22.6
40°-50°	5640.8	21.1
50°-60°	3889.0	14.6
60°-70°	1044.8	3.9
70°-80°	217.7	0.8
80°-90°	58.9	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°	26684.1	100.0
0°-180°	26684.1	100.0



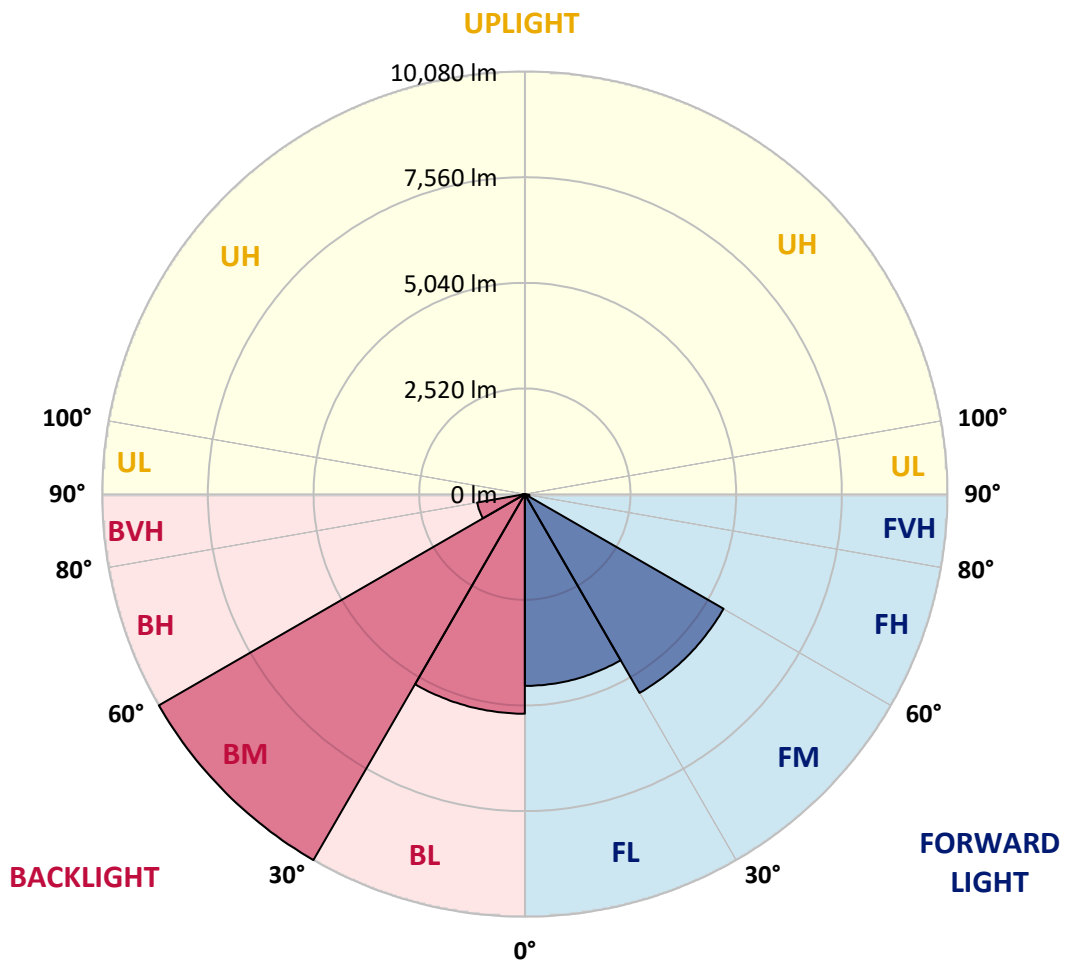
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4572.8	17.1			
FM (30°-60°)	5473.5	20.5			
FH (60°-80°)	109.7	0.4			G0/660
FVH (80°-90°)	7.9	0.0			G0/10
BL (0°-30°)	5236.8	19.6	B5		
BM (30°-60°)	10079.5	37.8	B5		
BH (60°-80°)	1152.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	51.0	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: P638438
 CATALOG NUMBER: IFLD-M-SA4E-740-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11513.7	11513.7	11513.7	11513.7	11513.7	11513.7	11513.7	11513.7	11513.7	11513.7
2.5°	11564.7	11490.2	11419.6	11396.1	11494.1	11600.0	11533.3	11537.2	11513.7	11556.9
5°	11651.0	11549.0	11502.0	11466.7	11482.3	11592.1	11498.0	11533.3	11494.1	11545.1
7.5°	11619.6	11549.0	11502.0	11435.3	11486.3	11615.7	11525.5	11529.4	11509.8	11556.9
10°	11600.0	11549.0	11490.2	11498.0	11556.9	11666.7	11596.1	11635.3	11607.8	11635.3
12.5°	11647.1	11592.1	11560.8	11560.8	11611.8	11737.2	11702.0	11737.2	11725.5	11749.0
15°	11203.9	11254.9	11552.9	11686.3	11788.2	11913.7	11898.0	11933.3	11941.2	11976.5
17.5°	9451.0	9400.0	9376.5	10062.7	11886.3	12274.5	12262.7	12258.8	12219.6	12192.1
20°	9682.3	9662.7	9635.3	9686.3	9890.2	12462.7	12541.2	12058.8	11917.6	11905.9
22.5°	10051.0	10019.6	9917.6	9921.6	9984.3	10835.3	12152.9	11713.7	11666.7	11639.2
25°	10231.4	10168.6	10086.3	10062.7	10082.3	9925.5	10854.9	11376.5	11145.1	11039.2
27.5°	9913.7	9917.6	9851.0	9913.7	9839.2	9133.3	8737.2	10717.6	10709.8	10662.7
30°	9674.5	9662.7	9584.3	9662.7	9149.0	8360.8	8192.2	9996.1	9913.7	9851.0
32.5°	8941.2	8949.0	9176.5	9482.3	8639.2	8015.7	7505.9	8929.4	9709.8	9674.5
35°	6396.1	6411.8	7219.6	8729.4	7866.7	7329.4	7290.2	7717.6	9388.2	9403.9
37.5°	6156.9	6156.9	6137.3	6384.3	7258.8	7051.0	7129.4	7086.3	8600.0	8639.2
40°	5984.3	5949.0	5921.6	5533.3	5047.1	6854.9	6909.8	6713.7	8129.4	8137.2
42.5°	5776.5	5737.3	5745.1	5027.4	4517.6	6368.6	6215.7	5952.9	7345.1	7352.9
45°	5396.1	5462.7	5509.8	4400.0	4360.8	4549.0	5733.3	5568.6	6815.7	6960.8
47.5°	2745.1	2803.9	4302.0	4047.1	4137.3	4043.1	4843.1	4847.1	5670.6	6152.9
50°	2490.2	2474.5	2478.4	2360.8	3819.6	3270.6	3502.0	4443.1	4541.2	5231.4
52.5°	2321.6	2317.6	2078.4	1847.1	2400.0	2878.4	2541.2	3215.7	3376.5	4431.4
55°	1717.6	1843.1	1639.2	1737.3	1502.0	2305.9	2294.1	2902.0	2956.9	3552.9
57.5°	15.7	19.6	47.1	1321.6	1039.2	1152.9	1584.3	1980.4	2078.4	2768.6
60°	3.9	7.8	19.6	39.2	674.5	709.8	1058.8	1145.1	1290.2	1651.0
62.5°	0.0	0.0	7.8	19.6	35.3	290.2	337.3	368.6	568.6	843.1
65°	0.0	0.0	3.9	11.8	19.6	47.1	82.4	172.5	247.1	305.9
67.5°	0.0	0.0	3.9	7.8	15.7	23.5	47.1	66.7	105.9	180.4
70°	0.0	0.0	3.9	7.8	11.8	19.6	31.4	47.1	62.7	90.2
72.5°	0.0	0.0	3.9	7.8	7.8	23.5	23.5	35.3	47.1	58.8
75°	0.0	0.0	3.9	3.9	7.8	15.7	23.5	27.5	31.4	47.1
77.5°	0.0	0.0	3.9	7.8	11.8	15.7	19.6	31.4	27.5	27.5
80°	0.0	0.0	3.9	11.8	11.8	19.6	23.5	31.4	19.6	19.6
82.5°	0.0	0.0	3.9	15.7	11.8	39.2	39.2	43.1	15.7	15.7
85°	0.0	0.0	11.8	7.8	23.5	39.2	35.3	23.5	19.6	11.8
87.5°	0.0	0.0	3.9	3.9	7.8	11.8	27.5	23.5	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638438
 CATALOG NUMBER: IFLD-M-SA4E-740-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
11513.7	0°	11513.7	11513.7	11513.7	11513.7	11513.7	11513.7	11513.7	11513.7	11513.7
11443.1	2.5°	11600.0	11549.0	11654.9	11643.1	11592.1	11568.6	11541.2	11517.6	11345.1
11451.0	5°	11603.9	11525.5	11654.9	11631.4	11623.5	11584.3	11560.8	11596.1	11439.2
11482.3	7.5°	11603.9	11525.5	11666.7	11674.5	11662.7	11631.4	11627.4	11651.0	11521.6
11537.2	10°	11682.3	11651.0	11768.6	11780.4	11764.7	11756.9	11737.2	11721.6	11584.3
11725.5	12.5°	11847.1	11784.3	11917.6	11952.9	11941.2	11960.8	11913.7	11937.2	11796.1
11917.6	15°	12047.1	12051.0	12152.9	12231.4	12223.5	12286.3	12215.7	12278.4	12176.5
12137.2	17.5°	12352.9	12396.1	12541.2	12658.8	12702.0	12749.0	12702.0	12721.6	12576.5
11894.1	20°	12031.4	12192.1	12890.2	13105.9	13196.1	13239.2	13160.8	13184.3	13039.2
11596.1	22.5°	11741.2	11949.0	12568.6	13243.1	13521.6	13607.8	13580.4	13576.5	13521.6
11007.8	25°	11313.7	11733.3	12011.8	12725.5	13600.0	13756.9	13772.5	13768.6	13686.3
10647.1	27.5°	10788.2	10882.3	11603.9	12039.2	13051.0	13647.0	13623.5	13509.8	13400.0
9898.0	30°	10117.6	10545.1	10870.6	11564.7	12341.2	13309.8	13309.8	13223.5	13109.8
9631.4	32.5°	9776.5	10329.4	10631.4	10882.3	11545.1	12933.3	13090.2	13000.0	12909.8
9423.5	35°	9596.1	9678.4	10384.3	10611.8	11172.5	12207.8	12843.1	12752.9	12686.3
8870.6	37.5°	9200.0	9392.1	9721.6	10329.4	10502.0	11615.7	12513.7	12466.7	12388.2
8152.9	40°	8317.6	8831.4	9337.2	9913.7	10094.1	10854.9	12113.7	12133.3	12027.4
7388.2	42.5°	7796.1	8145.1	8937.2	9325.5	9811.8	10364.7	11725.5	11756.9	11682.3
7000.0	45°	7184.3	7572.5	8129.4	8835.3	9498.0	9690.2	11039.2	11368.6	11305.9
6227.4	47.5°	6623.5	6937.2	7619.6	8333.3	9066.7	9039.2	10251.0	10870.6	10784.3
5635.3	50°	5827.4	6376.5	6698.0	7352.9	8447.1	8521.6	9411.8	10286.3	10215.7
4788.2	52.5°	4913.7	5603.9	6219.6	6819.6	7819.6	7996.1	8631.4	9690.2	9643.1
3658.8	55°	4294.1	4796.1	5490.2	5972.5	7058.8	7529.4	8047.1	9121.6	9098.0
3007.8	57.5°	3054.9	4023.5	4596.1	5270.6	5843.1	6694.1	7078.4	7964.7	7745.1
1666.7	60°	2070.6	2525.5	3223.5	3949.0	4333.3	5184.3	5541.2	6251.0	6192.2
996.1	62.5°	1094.1	1513.7	2011.8	2376.5	2654.9	3482.4	3631.4	4396.1	4376.5
400.0	65°	482.4	639.2	1090.2	1278.4	1564.7	1949.0	2078.4	2352.9	2286.3
196.1	67.5°	251.0	380.4	615.7	756.9	952.9	1098.0	1203.9	1290.2	1345.1
129.4	70°	152.9	278.4	380.4	525.5	654.9	772.5	854.9	972.5	1043.1
66.7	72.5°	113.7	176.5	262.7	403.9	474.5	611.8	694.1	780.4	843.1
54.9	75°	62.7	117.6	211.8	317.6	380.4	498.0	572.5	631.4	651.0
31.4	77.5°	39.2	90.2	176.5	247.1	298.0	403.9	384.3	439.2	486.3
23.5	80°	27.5	66.7	137.3	203.9	207.8	258.8	305.9	352.9	384.3
15.7	82.5°	19.6	54.9	102.0	156.9	137.3	200.0	239.2	274.5	200.0
11.8	85°	15.7	39.2	51.0	94.1	78.4	141.2	121.6	117.6	78.4
7.8	87.5°	11.8	19.6	35.3	43.1	31.4	31.4	39.2	47.1	39.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11513.7
11227.4
11305.9
11372.5
11470.6
11670.6
12007.8
12451.0
12937.2
13345.1
13560.8
13313.7
13066.7
12835.3
12592.1
12309.8
12003.9
11674.5
11313.7
10847.1
10227.4
9674.5
9125.5
7721.6
6196.1
4380.4
2258.8
1345.1
1047.1
854.9
639.2
494.1
388.2
145.1
78.4
39.2
0.0

(END OF REPORT)