

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: P638368

Luminaire Tested: **IFLD-S-SA3C-730-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638368  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-730-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (48) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14216.2 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

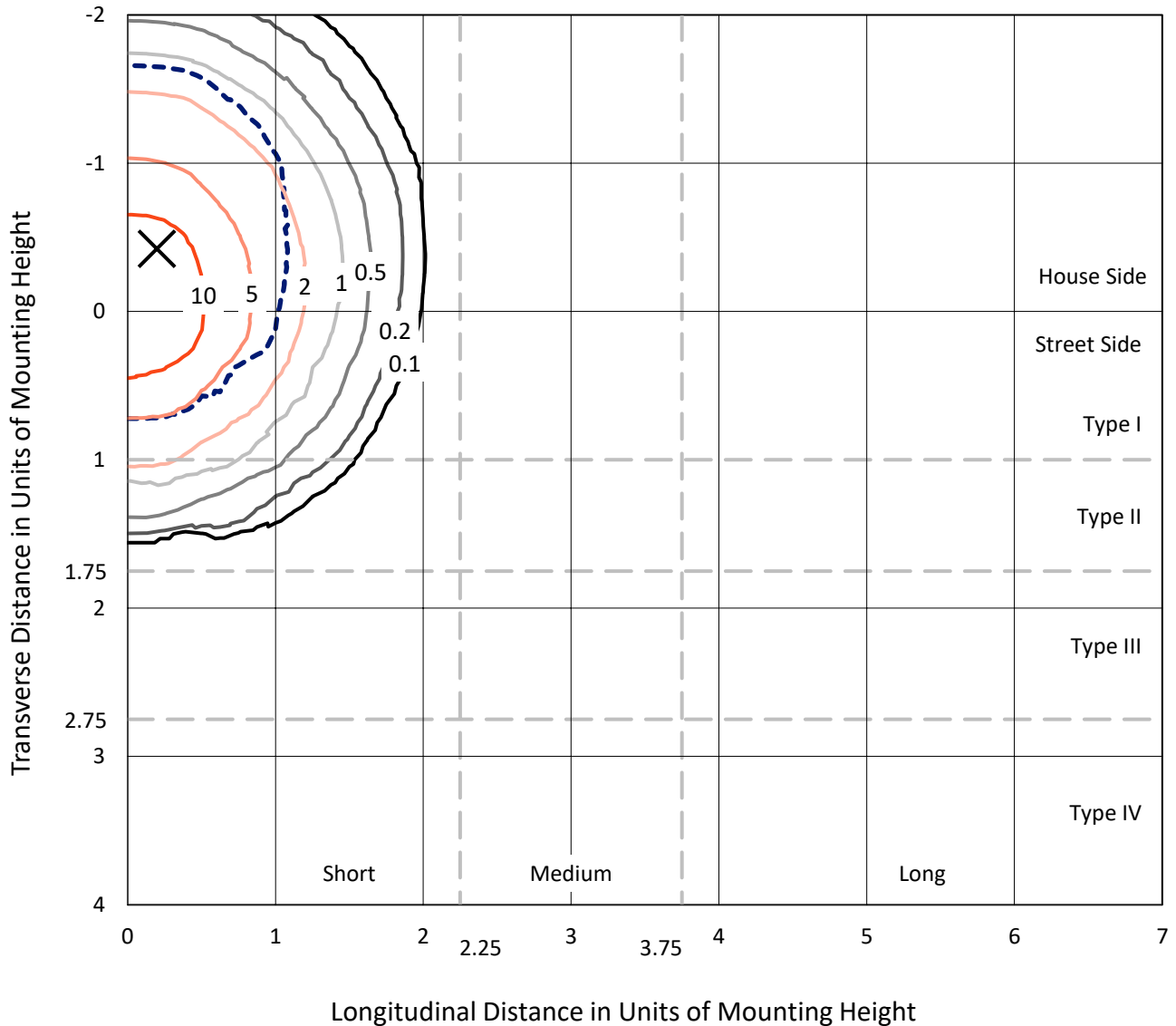
Input Watts (W): 160.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

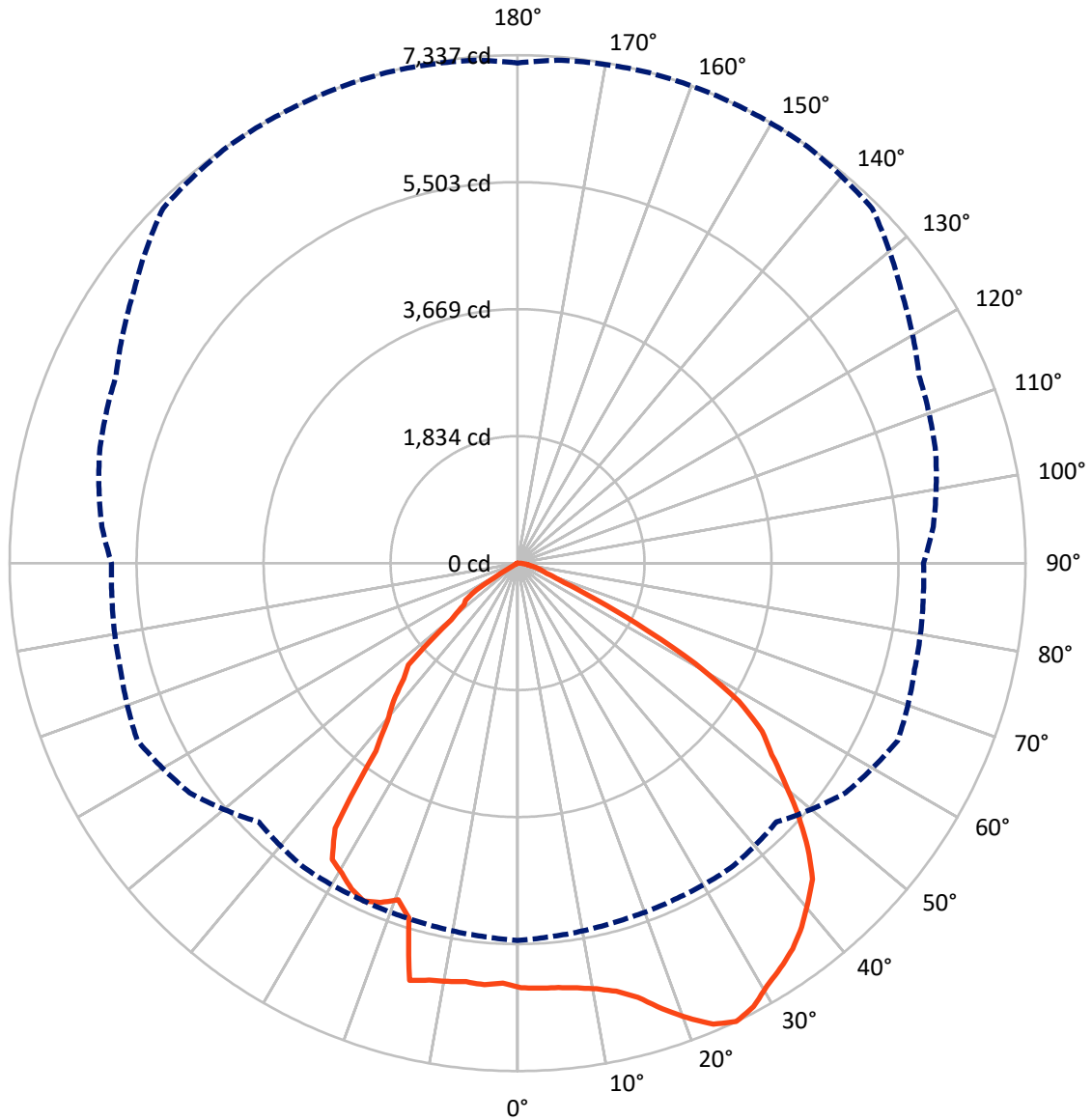
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.3 fc  
 Type I - Short - N/A

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### 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
<b>House Side</b>	Lumens	8801.3	0.0	8801.3
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	5414.9	0.0	5414.9
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	14216.2	0.0	14216.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	588.5	4.1
10°-20°	1796.9	12.6
20°-30°	2840.8	20.0
30°-40°	3208.9	22.6
40°-50°	3005.2	21.1
50°-60°	2071.9	14.6
60°-70°	556.6	3.9
70°-80°	116.0	0.8
80°-90°	31.4	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°	14216.2	100.0
0°-180°	14216.2	100.0



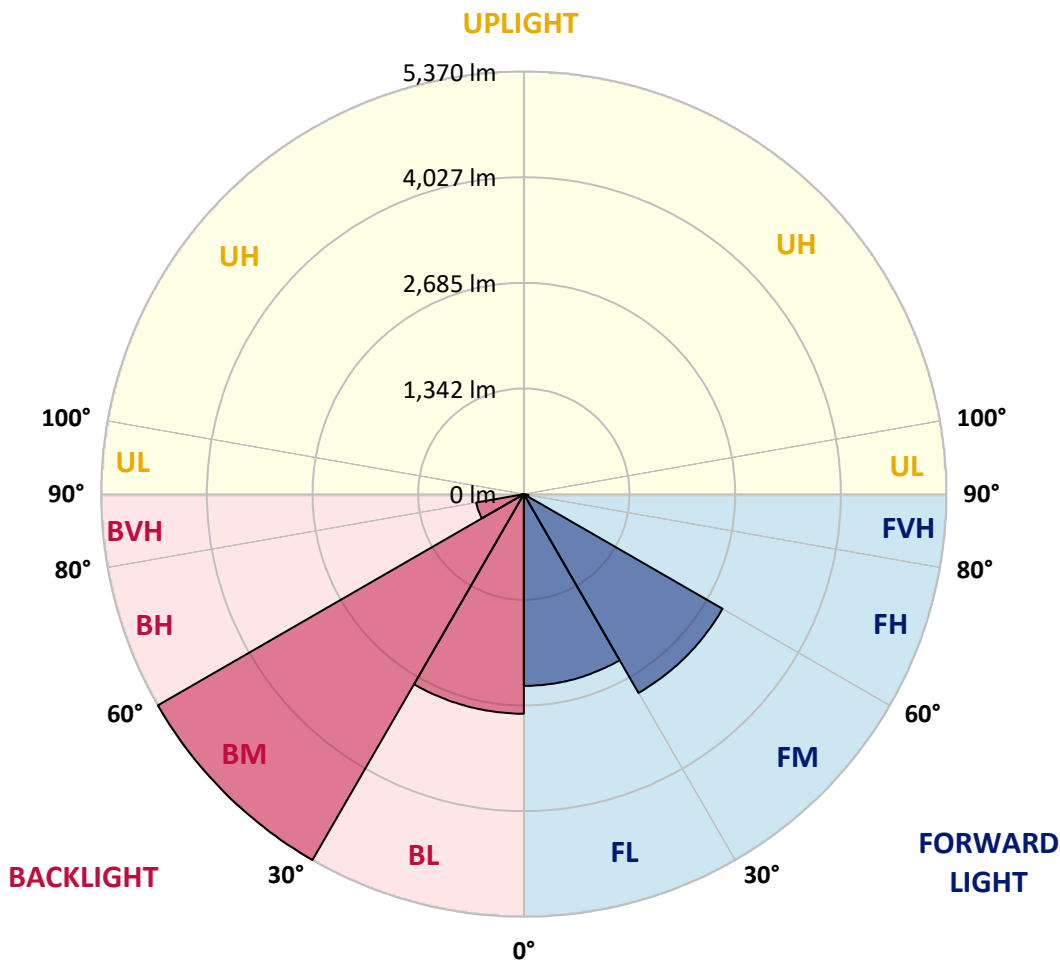
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2436.2	17.1			
FM (30°-60°)	2916.1	20.5			
FH (60°-80°)	58.4	0.4			G0/660
FVH (80°-90°)	4.2	0.0			G0/10
BL (0°-30°)	2790.0	19.6	B4/5000		
BM (30°-60°)	5369.9	37.8	B4/8500		
BH (60°-80°)	614.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	27.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6134.0	6134.0	6134.0	6134.0	6134.0	6134.0	6134.0	6134.0	6134.0	6134.0
2.5°	6161.2	6121.5	6083.9	6071.4	6123.6	6180.0	6144.5	6146.6	6134.0	6157.0
5°	6207.2	6152.8	6127.8	6109.0	6117.3	6175.8	6125.7	6144.5	6123.6	6150.7
7.5°	6190.4	6152.8	6127.8	6092.2	6119.4	6188.4	6140.3	6142.4	6131.9	6157.0
10°	6180.0	6152.8	6121.5	6125.7	6157.0	6215.5	6177.9	6198.8	6184.2	6198.8
12.5°	6205.1	6175.8	6159.1	6159.1	6186.3	6253.1	6234.3	6253.1	6246.9	6259.4
15°	5969.0	5996.1	6154.9	6226.0	6280.3	6347.1	6338.8	6357.6	6361.8	6380.6
17.5°	5035.1	5007.9	4995.4	5361.0	6332.5	6539.3	6533.1	6531.0	6510.1	6495.5
20°	5158.4	5147.9	5133.3	5160.4	5269.1	6639.6	6681.4	6424.4	6349.2	6343.0
22.5°	5354.7	5338.0	5283.7	5285.8	5319.2	5772.6	6474.6	6240.6	6215.5	6200.9
25°	5450.8	5417.4	5373.5	5361.0	5371.5	5287.9	5783.0	6060.9	5937.6	5881.2
27.5°	5281.6	5283.7	5248.2	5281.6	5241.9	4865.9	4654.8	5709.9	5705.7	5680.7
30°	5154.2	5147.9	5106.1	5147.9	4874.2	4454.3	4364.4	5325.5	5281.6	5248.2
32.5°	4763.5	4767.7	4888.8	5051.8	4602.6	4270.4	3998.8	4757.2	5173.0	5154.2
35°	3407.6	3415.9	3846.3	4650.7	4191.0	3904.8	3883.9	4111.6	5001.7	5010.0
37.5°	3280.1	3280.1	3269.7	3401.3	3867.2	3756.5	3798.3	3775.3	4581.7	4602.6
40°	3188.2	3169.4	3154.8	2947.9	2688.9	3652.0	3681.3	3576.8	4331.0	4335.2
42.5°	3077.5	3056.6	3060.7	2678.4	2406.8	3392.9	3311.5	3171.5	3913.2	3917.3
45°	2874.8	2910.3	2935.4	2344.1	2323.2	2423.5	3054.5	2966.7	3631.1	3708.4
47.5°	1462.5	1493.8	2291.9	2156.1	2204.2	2154.0	2580.2	2582.3	3021.1	3278.0
50°	1326.7	1318.3	1320.4	1257.7	2034.9	1742.4	1865.7	2367.1	2419.3	2787.1
52.5°	1236.8	1234.7	1107.3	984.0	1278.6	1533.5	1353.8	1713.2	1798.8	2360.9
55°	915.1	981.9	873.3	925.5	800.2	1228.5	1222.2	1546.0	1575.3	1892.9
57.5°	8.4	10.4	25.1	704.1	553.7	614.2	844.1	1055.1	1107.3	1475.0
60°	2.1	4.2	10.4	20.9	359.4	378.2	564.1	610.1	687.4	879.6
62.5°	0.0	0.0	4.2	10.4	18.8	154.6	179.7	196.4	302.9	449.2
65°	0.0	0.0	2.1	6.3	10.4	25.1	43.9	91.9	131.6	163.0
67.5°	0.0	0.0	2.1	4.2	8.4	12.5	25.1	35.5	56.4	96.1
70°	0.0	0.0	2.1	4.2	6.3	10.4	16.7	25.1	33.4	48.1
72.5°	0.0	0.0	2.1	4.2	4.2	12.5	12.5	18.8	25.1	31.3
75°	0.0	0.0	2.1	2.1	4.2	8.4	12.5	14.6	16.7	25.1
77.5°	0.0	0.0	2.1	4.2	6.3	8.4	10.4	16.7	14.6	14.6
80°	0.0	0.0	2.1	6.3	6.3	10.4	12.5	16.7	10.4	10.4
82.5°	0.0	0.0	2.1	8.4	6.3	20.9	20.9	23.0	8.4	8.4
85°	0.0	0.0	6.3	4.2	12.5	20.9	18.8	12.5	10.4	6.3
87.5°	0.0	0.0	2.1	2.1	4.2	6.3	14.6	12.5	4.2	4.2
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°
6134.0	0°	6134.0	6134.0	6134.0	6134.0	6134.0	6134.0	6134.0	6134.0	6134.0
6096.4	2.5°	6180.0	6152.8	6209.2	6203.0	6175.8	6163.3	6148.7	6136.1	6044.2
6100.6	5°	6182.1	6140.3	6209.2	6196.7	6192.5	6171.6	6159.1	6177.9	6094.3
6117.3	7.5°	6182.1	6140.3	6215.5	6219.7	6213.4	6196.7	6194.6	6207.2	6138.2
6146.6	10°	6223.9	6207.2	6269.8	6276.1	6267.7	6263.6	6253.1	6244.8	6171.6
6246.9	12.5°	6311.6	6278.2	6349.2	6368.0	6361.8	6372.2	6347.1	6359.7	6284.5
6349.2	15°	6418.2	6420.3	6474.6	6516.4	6512.2	6545.6	6508.0	6541.4	6487.1
6466.2	17.5°	6581.1	6604.1	6681.4	6744.1	6767.1	6792.1	6767.1	6777.5	6700.2
6336.7	20°	6409.8	6495.5	6867.4	6982.3	7030.3	7053.3	7011.5	7024.1	6946.8
6177.9	22.5°	6255.2	6365.9	6696.0	7055.4	7203.7	7249.7	7235.1	7233.0	7203.7
5864.5	25°	6027.5	6251.0	6399.4	6779.6	7245.5	7329.1	7337.4	7335.4	7291.5
5672.3	27.5°	5747.5	5797.7	6182.1	6414.0	6953.0	7270.6	7258.0	7197.5	7139.0
5273.3	30°	5390.3	5618.0	5791.4	6161.2	6574.9	7090.9	7090.9	7044.9	6984.4
5131.2	32.5°	5208.5	5503.1	5664.0	5797.7	6150.7	6890.3	6973.9	6925.9	6877.8
5020.5	35°	5112.4	5156.3	5532.3	5653.5	5952.3	6503.8	6842.3	6794.2	6758.7
4725.9	37.5°	4901.4	5003.7	5179.2	5503.1	5595.0	6188.4	6666.8	6641.7	6599.9
4343.5	40°	4431.3	4705.0	4974.5	5281.6	5377.7	5783.0	6453.7	6464.1	6407.7
3936.1	42.5°	4153.4	4339.4	4761.4	4968.2	5227.3	5521.9	6246.9	6263.6	6223.9
3729.3	45°	3827.5	4034.3	4331.0	4707.1	5060.2	5162.5	5881.2	6056.7	6023.3
3317.7	47.5°	3528.7	3695.9	4059.4	4439.7	4830.3	4815.7	5461.3	5791.4	5745.4
3002.2	50°	3104.6	3397.1	3568.4	3917.3	4500.2	4539.9	5014.2	5480.1	5442.5
2551.0	52.5°	2617.8	2985.5	3313.5	3633.2	4166.0	4260.0	4598.4	5162.5	5137.5
1949.3	55°	2287.7	2555.2	2924.9	3181.9	3760.6	4011.4	4287.1	4859.6	4847.1
1602.5	57.5°	1627.5	2143.6	2448.6	2807.9	3113.0	3566.3	3771.1	4243.3	4126.3
887.9	60°	1103.1	1345.5	1717.4	2103.9	2308.6	2762.0	2952.1	3330.3	3298.9
530.7	62.5°	582.9	806.4	1071.8	1266.1	1414.4	1855.3	1934.6	2342.0	2331.6
213.1	65°	257.0	340.5	580.8	681.1	833.6	1038.4	1107.3	1253.5	1218.0
104.5	67.5°	133.7	202.7	328.0	403.2	507.7	585.0	641.4	687.4	716.6
68.9	70°	81.5	148.3	202.7	280.0	348.9	411.6	455.5	518.1	555.7
35.5	72.5°	60.6	94.0	140.0	215.2	252.8	325.9	369.8	415.8	449.2
29.2	75°	33.4	62.7	112.8	169.2	202.7	265.3	305.0	336.4	346.8
16.7	77.5°	20.9	48.1	94.0	131.6	158.8	215.2	204.7	234.0	259.1
12.5	80°	14.6	35.5	73.1	108.6	110.7	137.9	163.0	188.0	204.7
8.4	82.5°	10.4	29.2	54.3	83.6	73.1	106.6	127.4	146.2	106.6
6.3	85°	8.4	20.9	27.2	50.1	41.8	75.2	64.8	62.7	41.8
4.2	87.5°	6.3	10.4	18.8	23.0	16.7	16.7	20.9	25.1	20.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
6134.0  
5981.5  
6023.3  
6058.8  
6111.1  
6217.6  
6397.3  
6633.4  
6892.4  
7109.7  
7224.6  
7093.0  
6961.4  
6838.1  
6708.6  
6558.2  
6395.2  
6219.7  
6027.5  
5778.9  
5448.8  
5154.2  
4861.7  
4113.7  
3301.0  
2333.7  
1203.4  
716.6  
557.8  
455.5  
340.5  
263.2  
206.8  
77.3  
41.8  
20.9  
0.0

(END OF REPORT)