

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: P636951

Luminaire Tested: **IFLD-S-SA6B-940-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636951  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-940-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (96) 4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17777.4 lumens  
Efficiency: N/A  
Efficacy: 72.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

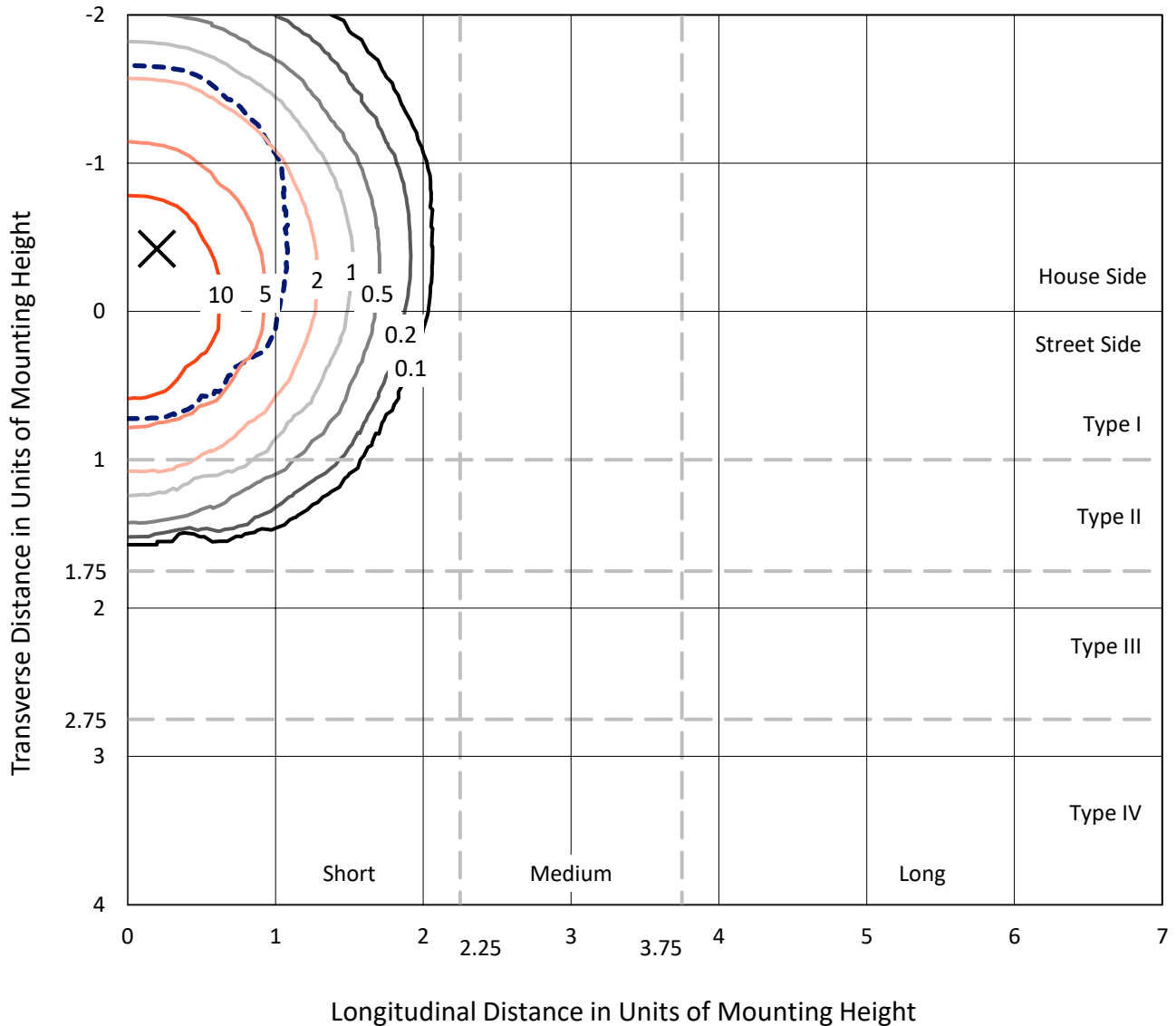
Input Watts (W): 244.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

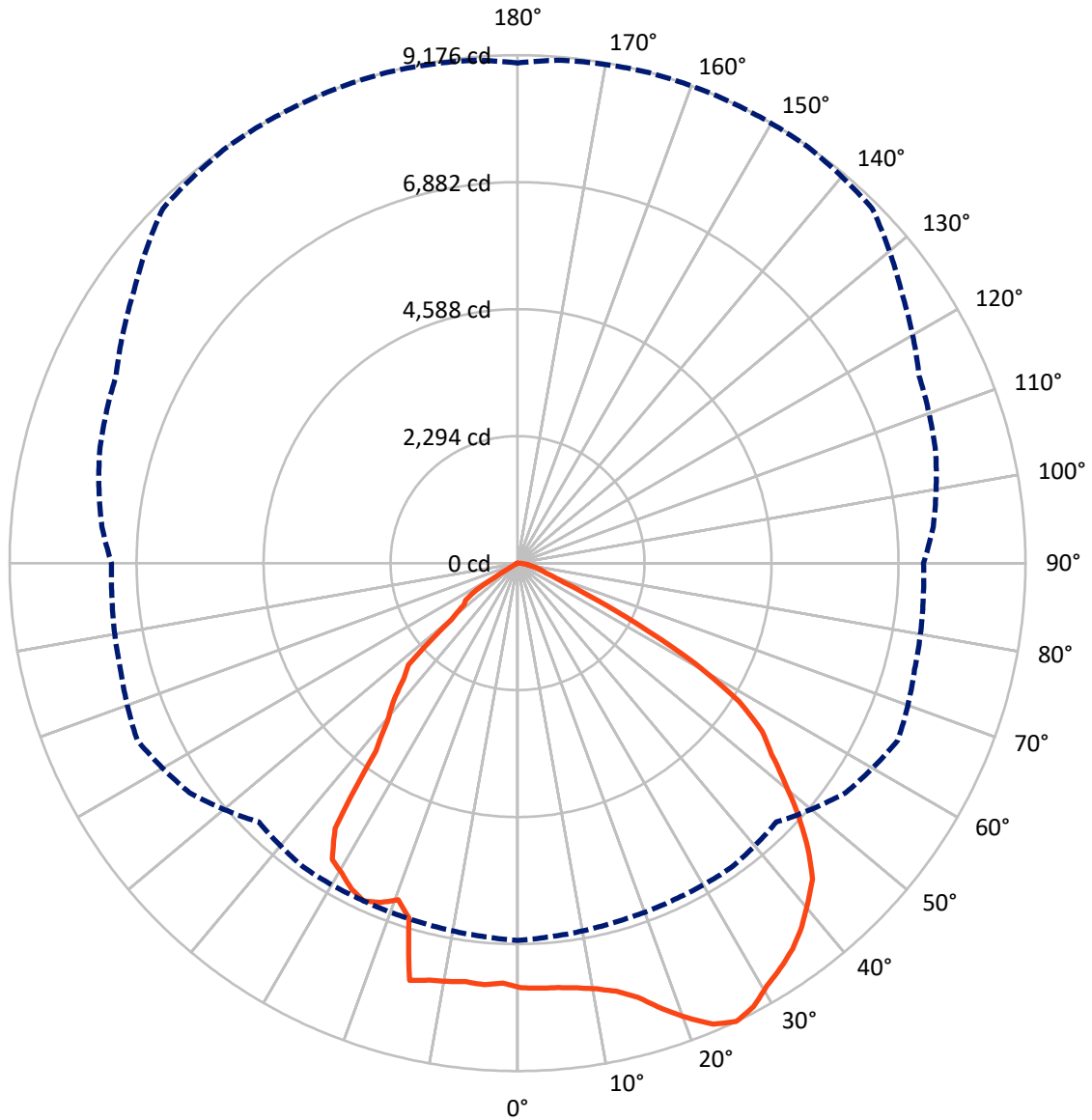
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 19.2 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	11006.1	0.0	11006.1
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	6771.4	0.0	6771.4
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	17777.4	0.0	17777.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	735.9	4.1
10°-20°	2247.0	12.6
20°-30°	3552.4	20.0
30°-40°	4012.8	22.6
40°-50°	3758.0	21.1
50°-60°	2590.9	14.6
60°-70°	696.1	3.9
70°-80°	145.1	0.8
80°-90°	39.2	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°	17777.4	100.0
0°-180°	17777.4	100.0



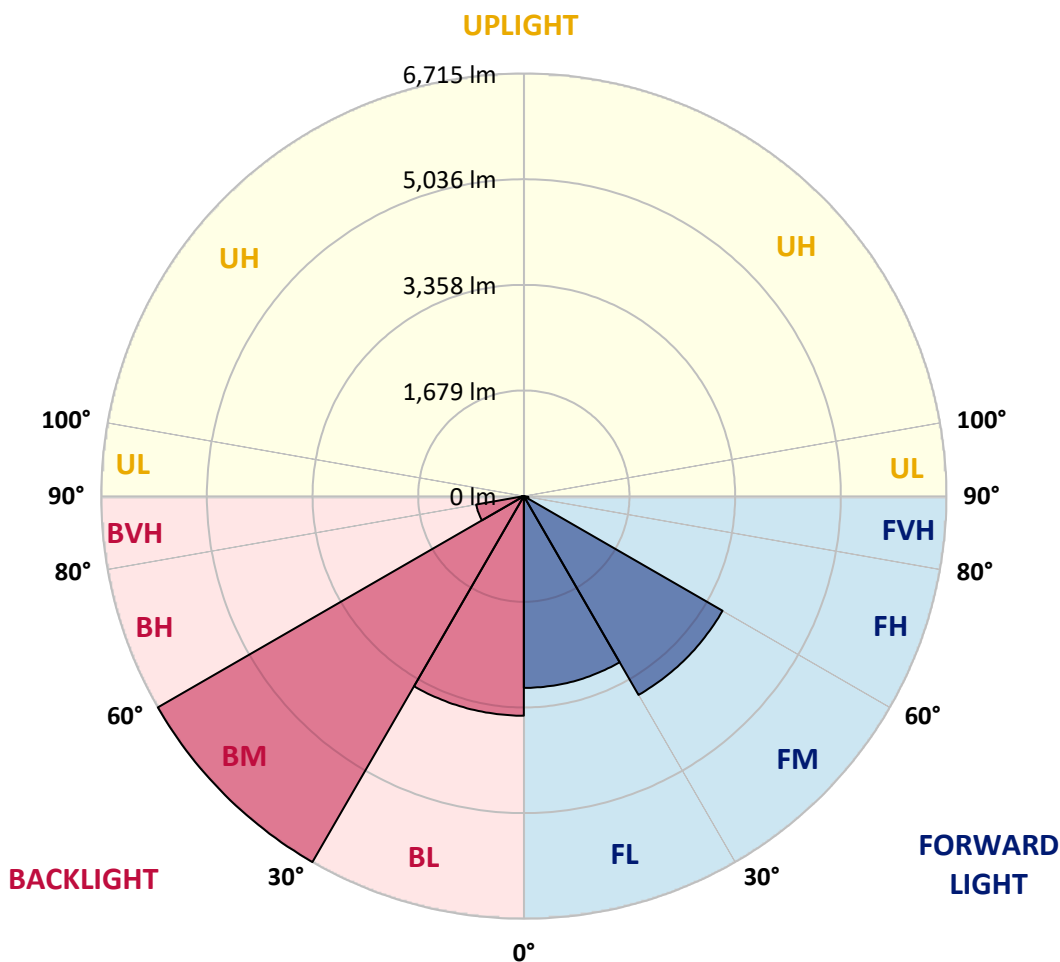
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3046.5	17.1			
FM (30°-60°)	3646.5	20.5			
FH (60°-80°)	73.1	0.4			G0/660
FVH (80°-90°)	5.3	0.0			G0/10
BL (0°-30°)	3488.9	19.6	B4/5000		
BM (30°-60°)	6715.1	37.8	B4/8500		
BH (60°-80°)	768.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	34.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7670.6	7670.6	7670.6	7670.6	7670.6	7670.6	7670.6	7670.6	7670.6	7670.6
2.5°	7704.6	7655.0	7607.9	7592.3	7657.6	7728.1	7683.7	7686.3	7670.6	7699.4
5°	7762.1	7694.2	7662.8	7639.3	7649.7	7722.9	7660.2	7683.7	7657.6	7691.5
7.5°	7741.2	7694.2	7662.8	7618.4	7652.4	7738.6	7678.5	7681.1	7668.0	7699.4
10°	7728.1	7694.2	7655.0	7660.2	7699.4	7772.5	7725.5	7751.6	7733.3	7751.6
12.5°	7759.5	7722.9	7702.0	7702.0	7736.0	7819.6	7796.1	7819.6	7811.7	7827.4
15°	7464.2	7498.2	7696.8	7785.6	7853.5	7937.1	7926.7	7950.2	7955.4	7978.9
17.5°	6296.4	6262.4	6246.8	6704.0	7918.8	8177.5	8169.7	8167.0	8140.9	8122.6
20°	6450.6	6437.5	6419.2	6453.2	6589.0	8302.9	8355.2	8033.8	7939.7	7931.9
22.5°	6696.1	6675.2	6607.3	6609.9	6651.7	7218.7	8096.5	7803.9	7772.5	7754.3
25°	6816.3	6774.5	6719.7	6704.0	6717.0	6612.5	7231.7	7579.2	7425.1	7354.5
27.5°	6604.7	6607.3	6562.9	6604.7	6555.1	6084.8	5820.9	7140.3	7135.1	7103.7
30°	6445.3	6437.5	6385.2	6437.5	6095.2	5570.1	5457.8	6659.6	6604.7	6562.9
32.5°	5956.8	5962.0	6113.5	6317.3	5755.6	5340.2	5000.6	5948.9	6468.8	6445.3
35°	4261.2	4271.6	4809.8	5815.7	5240.9	4883.0	4856.9	5141.6	6254.6	6265.1
37.5°	4101.8	4101.8	4088.7	4253.3	4836.0	4697.5	4749.7	4721.0	5729.5	5755.6
40°	3986.9	3963.3	3945.1	3686.4	3362.4	4566.9	4603.4	4472.8	5416.0	5421.2
42.5°	3848.4	3822.3	3827.5	3349.4	3009.7	4242.9	4141.0	3966.0	4893.4	4898.7
45°	3595.0	3639.4	3670.7	2931.4	2905.2	3030.6	3819.6	3709.9	4540.7	4637.4
47.5°	1828.8	1868.0	2866.0	2696.2	2756.3	2693.6	3226.6	3229.2	3777.8	4099.2
50°	1659.0	1648.6	1651.2	1572.8	2544.7	2178.9	2333.1	2960.1	3025.4	3485.2
52.5°	1546.7	1544.1	1384.7	1230.5	1598.9	1917.7	1693.0	2142.3	2249.5	2952.3
55°	1144.3	1227.9	1092.1	1157.4	1000.6	1536.2	1528.4	1933.3	1969.9	2367.0
57.5°	10.5	13.1	31.4	880.5	692.3	768.1	1055.5	1319.4	1384.7	1844.5
60°	2.6	5.2	13.1	26.1	449.4	472.9	705.4	762.9	859.6	1099.9
62.5°	0.0	0.0	5.2	13.1	23.5	193.3	224.7	245.6	378.8	561.7
65°	0.0	0.0	2.6	7.8	13.1	31.4	54.9	115.0	164.6	203.8
67.5°	0.0	0.0	2.6	5.2	10.5	15.7	31.4	44.4	70.5	120.2
70°	0.0	0.0	2.6	5.2	7.8	13.1	20.9	31.4	41.8	60.1
72.5°	0.0	0.0	2.6	5.2	5.2	15.7	15.7	23.5	31.4	39.2
75°	0.0	0.0	2.6	2.6	5.2	10.5	15.7	18.3	20.9	31.4
77.5°	0.0	0.0	2.6	5.2	7.8	10.5	13.1	20.9	18.3	18.3
80°	0.0	0.0	2.6	7.8	7.8	13.1	15.7	20.9	13.1	13.1
82.5°	0.0	0.0	2.6	10.5	7.8	26.1	26.1	28.7	10.5	10.5
85°	0.0	0.0	7.8	5.2	15.7	26.1	23.5	15.7	13.1	7.8
87.5°	0.0	0.0	2.6	2.6	5.2	7.8	18.3	15.7	5.2	5.2
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°
7670.6	0°	7670.6	7670.6	7670.6	7670.6	7670.6	7670.6	7670.6	7670.6	7670.6
7623.6	2.5°	7728.1	7694.2	7764.7	7756.9	7722.9	7707.2	7688.9	7673.3	7558.3
7628.8	5°	7730.7	7678.5	7764.7	7749.0	7743.8	7717.7	7702.0	7725.5	7621.0
7649.7	7.5°	7730.7	7678.5	7772.5	7777.8	7769.9	7749.0	7746.4	7762.1	7675.9
7686.3	10°	7783.0	7762.1	7840.5	7848.3	7837.9	7832.6	7819.6	7809.1	7717.7
7811.7	12.5°	7892.7	7850.9	7939.7	7963.3	7955.4	7968.5	7937.1	7952.8	7858.8
7939.7	15°	8026.0	8028.6	8096.5	8148.8	8143.5	8185.3	8138.3	8180.1	8112.2
8086.1	17.5°	8229.7	8258.5	8355.2	8433.5	8462.3	8493.6	8462.3	8475.3	8378.7
7924.1	20°	8015.5	8122.6	8587.7	8731.4	8791.5	8820.2	8767.9	8783.6	8687.0
7725.5	22.5°	7822.2	7960.6	8373.4	8822.8	9008.3	9065.8	9047.5	9044.9	9008.3
7333.6	25°	7537.4	7817.0	8002.4	8477.9	9060.6	9165.1	9175.5	9172.9	9118.0
7093.3	27.5°	7187.3	7250.0	7730.7	8020.7	8694.8	9091.9	9076.2	9000.5	8927.3
6594.2	30°	6740.6	7025.3	7242.2	7704.6	8221.9	8867.2	8867.2	8809.7	8734.0
6416.6	32.5°	6513.3	6881.6	7082.8	7250.0	7691.5	8616.4	8720.9	8660.8	8600.7
6278.1	35°	6393.1	6447.9	6918.2	7069.7	7443.3	8133.1	8556.3	8496.2	8451.8
5909.7	37.5°	6129.2	6257.2	6476.7	6881.6	6996.6	7738.6	8336.9	8305.5	8253.3
5431.6	40°	5541.4	5883.6	6220.6	6604.7	6724.9	7231.7	8070.4	8083.4	8012.9
4922.2	42.5°	5193.9	5426.4	5954.2	6212.8	6536.8	6905.1	7811.7	7832.6	7783.0
4663.5	45°	4786.3	5045.0	5416.0	5886.2	6327.8	6455.8	7354.5	7574.0	7532.2
4148.8	47.5°	4412.7	4621.7	5076.3	5551.8	6040.4	6022.1	6829.4	7242.2	7184.7
3754.3	50°	3882.4	4248.1	4462.4	4898.7	5627.6	5677.2	6270.3	6852.9	6805.9
3190.0	52.5°	3273.6	3733.4	4143.6	4543.3	5209.6	5327.1	5750.4	6455.8	6424.4
2437.6	55°	2860.8	3195.2	3657.7	3979.0	4702.7	5016.2	5361.1	6076.9	6061.3
2003.9	57.5°	2035.2	2680.5	3062.0	3511.4	3892.8	4459.7	4715.8	5306.2	5159.9
1110.4	60°	1379.5	1682.5	2147.6	2630.9	2886.9	3453.9	3691.6	4164.5	4125.3
663.6	62.5°	728.9	1008.5	1340.3	1583.2	1768.7	2320.0	2419.3	2928.7	2915.7
266.5	65°	321.4	425.9	726.3	851.7	1042.4	1298.5	1384.7	1567.6	1523.2
130.6	67.5°	167.2	253.4	410.2	504.2	634.9	731.5	802.1	859.6	896.1
86.2	70°	101.9	185.5	253.4	350.1	436.3	514.7	569.6	647.9	695.0
44.4	72.5°	75.8	117.6	175.0	269.1	316.1	407.6	462.4	519.9	561.7
36.6	75°	41.8	78.4	141.1	211.6	253.4	331.8	381.4	420.6	433.7
20.9	77.5°	26.1	60.1	117.6	164.6	198.6	269.1	256.0	292.6	324.0
15.7	80°	18.3	44.4	91.4	135.9	138.5	172.4	203.8	235.1	256.0
10.5	82.5°	13.1	36.6	67.9	104.5	91.4	133.2	159.4	182.9	133.2
7.8	85°	10.5	26.1	34.0	62.7	52.3	94.1	81.0	78.4	52.3
5.2	87.5°	7.8	13.1	23.5	28.7	20.9	20.9	26.1	31.4	26.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
7670.6  
7479.9  
7532.2  
7576.6  
7641.9  
7775.2  
7999.8  
8295.1  
8619.0  
8890.7  
9034.4  
8869.8  
8705.2  
8551.1  
8389.1  
8201.0  
7997.2  
7777.8  
7537.4  
7226.5  
6813.7  
6445.3  
6079.6  
5144.2  
4127.9  
2918.3  
1504.9  
896.1  
697.6  
569.6  
425.9  
329.2  
258.6  
96.7  
52.3  
26.1  
0.0

(END OF REPORT)