

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: P638452

Luminaire Tested: **IFLD-S-SA2E-750-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638452  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-750-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (32) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13645.4 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

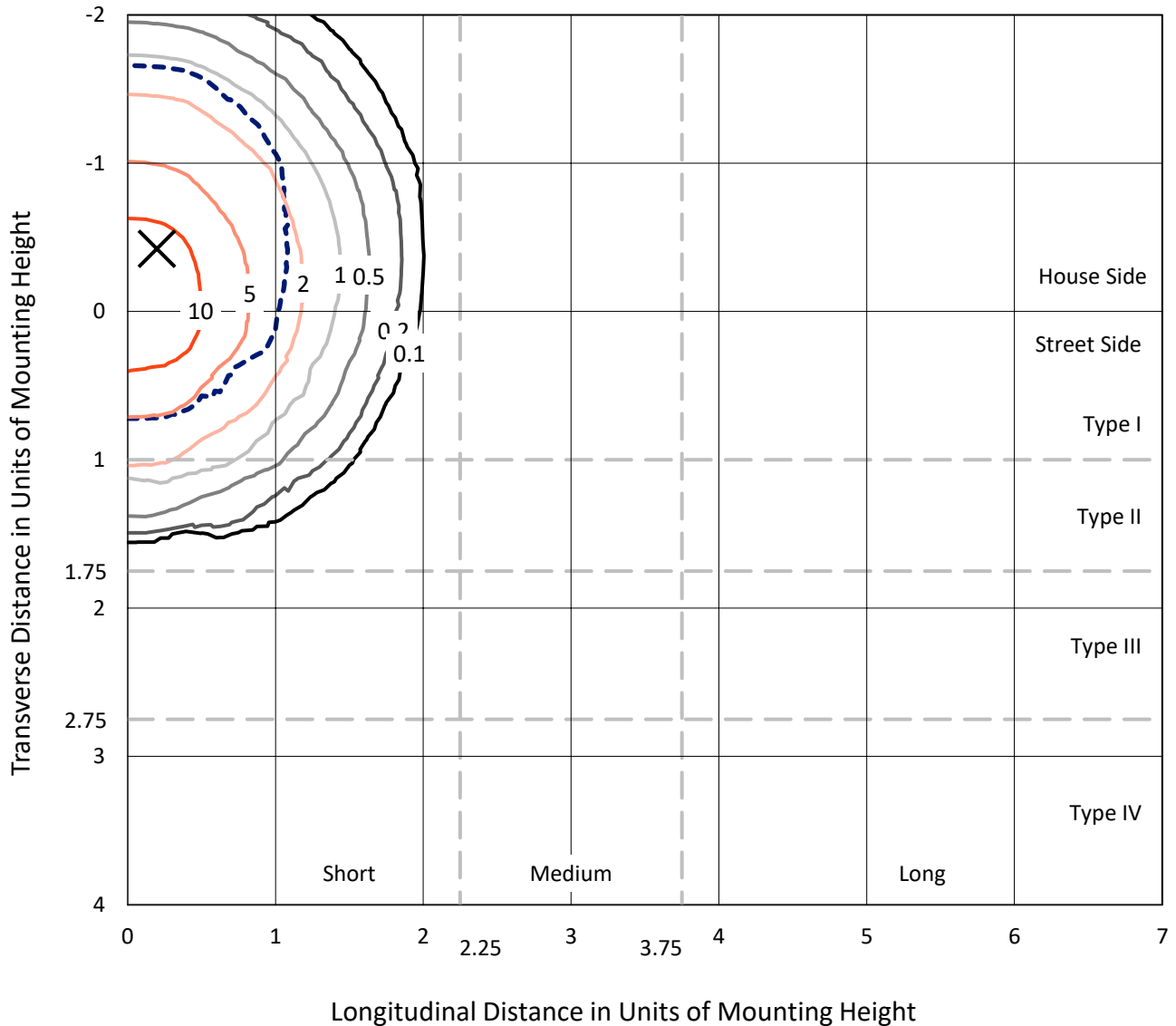
Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

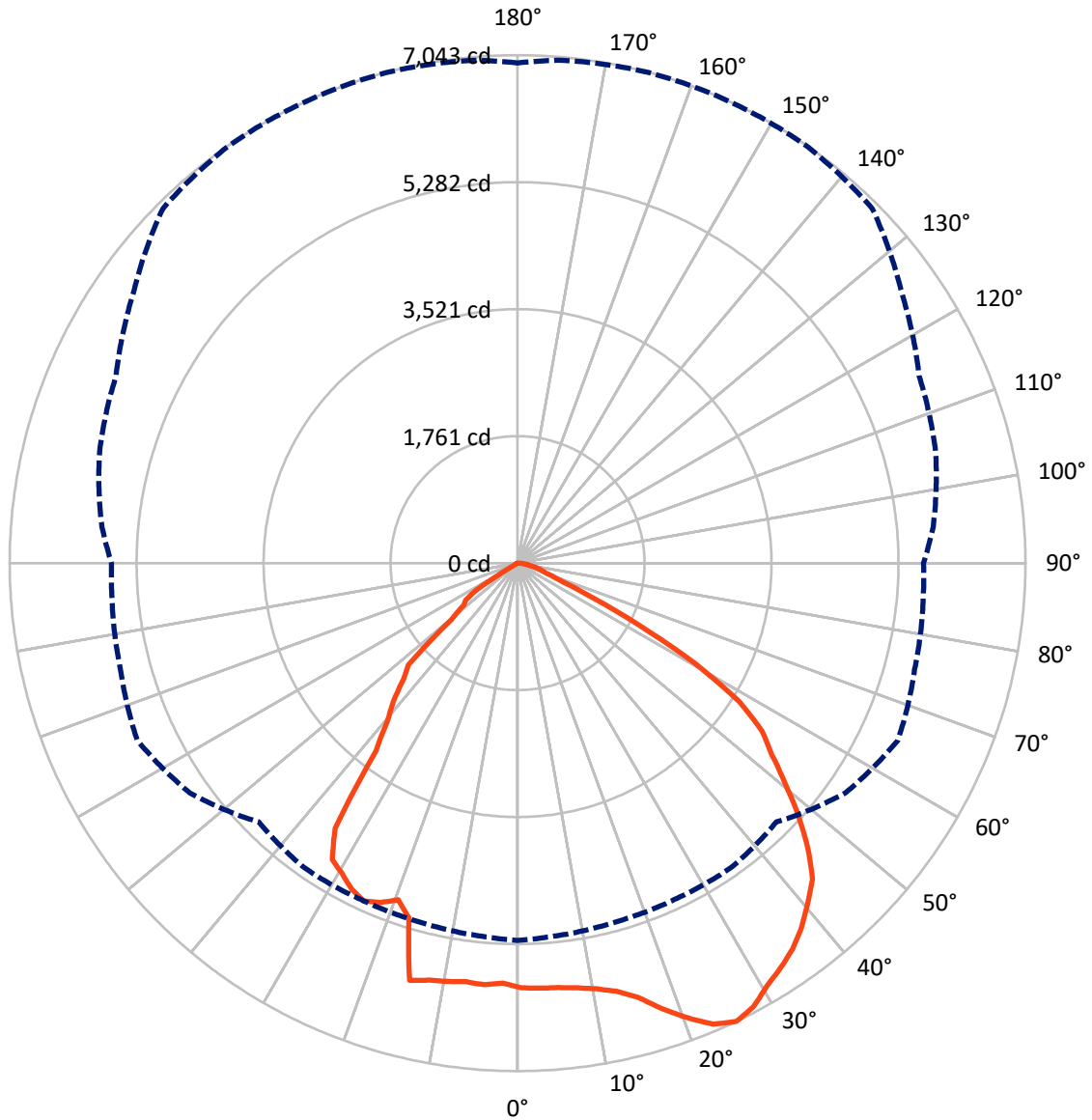
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.7 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	8447.9	0.0	8447.9
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	5197.5	0.0	5197.5
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	13645.4	0.0	13645.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	564.9	4.1
10°-20°	1724.7	12.6
20°-30°	2726.7	20.0
30°-40°	3080.1	22.6
40°-50°	2884.5	21.1
50°-60°	1988.7	14.6
60°-70°	534.3	3.9
70°-80°	111.3	0.8
80°-90°	30.1	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°	13645.4	100.0
0°-180°	13645.4	100.0



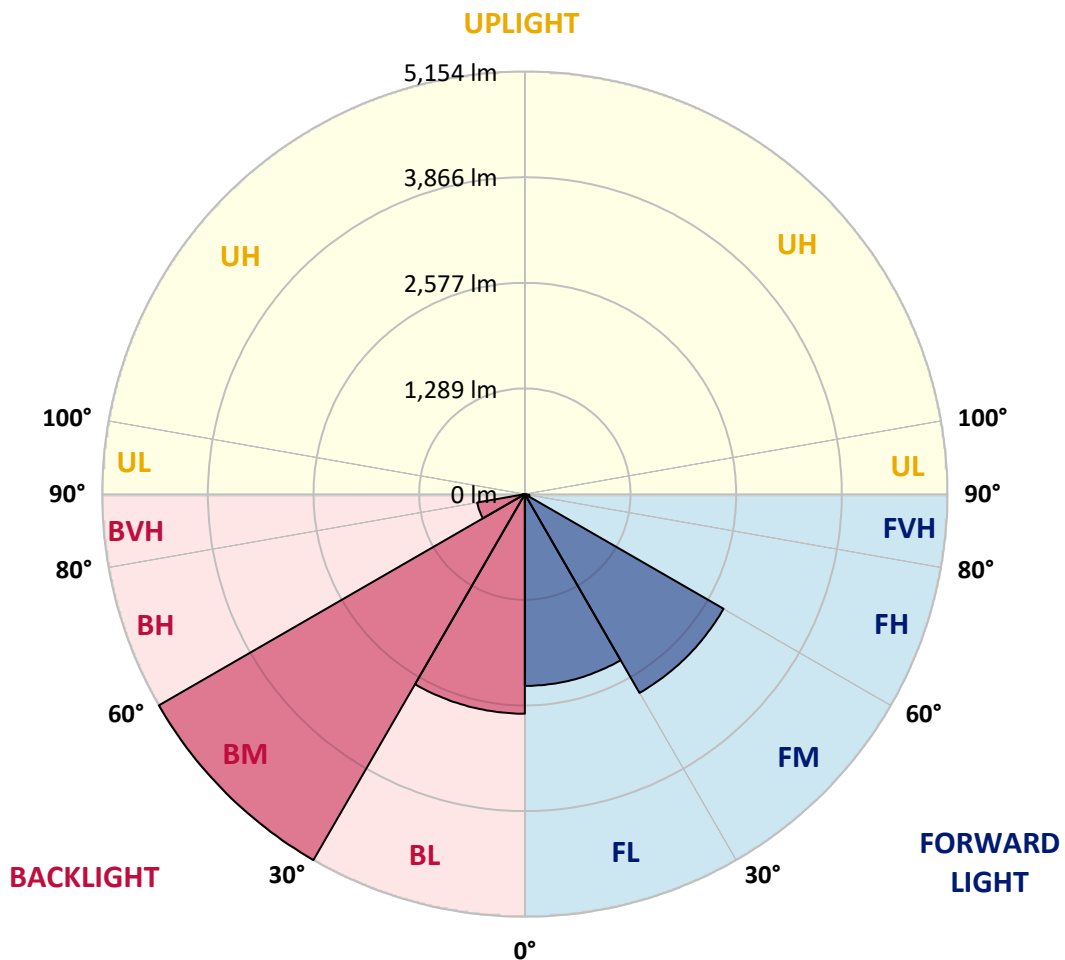
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2338.4	17.1			
FM (30°-60°)	2799.0	20.5			
FH (60°-80°)	56.1	0.4			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	2677.9	19.6	B4/5000		
BM (30°-60°)	5154.3	37.8	B4/8500		
BH (60°-80°)	589.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	26.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5887.7	5887.7	5887.7	5887.7	5887.7	5887.7	5887.7	5887.7	5887.7	5887.7
2.5°	5913.8	5875.7	5839.6	5827.6	5877.7	5931.9	5897.8	5899.8	5887.7	5909.8
5°	5957.9	5905.8	5881.7	5863.7	5871.7	5927.8	5879.7	5897.8	5877.7	5903.8
7.5°	5941.9	5905.8	5881.7	5847.6	5873.7	5939.9	5893.8	5895.8	5885.7	5909.8
10°	5931.9	5905.8	5875.7	5879.7	5909.8	5965.9	5929.9	5949.9	5935.9	5949.9
12.5°	5955.9	5927.8	5911.8	5911.8	5937.9	6002.0	5984.0	6002.0	5996.0	6008.1
15°	5729.3	5755.4	5907.8	5976.0	6028.1	6092.3	6084.3	6102.3	6106.3	6124.4
17.5°	4832.9	4806.8	4794.8	5145.8	6078.2	6276.8	6270.8	6268.8	6248.7	6234.7
20°	4951.2	4941.2	4927.2	4953.2	5057.5	6373.0	6413.1	6166.5	6094.3	6088.3
22.5°	5139.7	5123.7	5071.6	5073.6	5105.6	5540.8	6214.6	5990.0	5965.9	5951.9
25°	5232.0	5199.9	5157.8	5145.8	5155.8	5075.6	5550.8	5817.6	5699.2	5645.1
27.5°	5069.6	5071.6	5037.5	5069.6	5031.4	4670.5	4467.9	5480.6	5476.6	5452.6
30°	4947.2	4941.2	4901.1	4941.2	4678.5	4275.4	4189.2	5111.7	5069.6	5037.5
32.5°	4572.2	4576.2	4692.5	4849.0	4417.8	4099.0	3838.3	4566.2	4965.3	4947.2
35°	3270.7	3278.8	3691.9	4463.9	4022.8	3748.0	3728.0	3946.5	4800.8	4808.9
37.5°	3148.4	3148.4	3138.4	3264.7	3711.9	3605.6	3645.7	3623.7	4397.8	4417.8
40°	3060.2	3042.1	3028.1	2829.6	2580.9	3505.4	3533.4	3433.2	4157.1	4161.1
42.5°	2953.9	2933.8	2937.9	2570.9	2310.2	3256.7	3178.5	3044.1	3756.0	3760.1
45°	2759.4	2793.5	2817.5	2250.0	2230.0	2326.2	2931.8	2847.6	3485.3	3559.5
47.5°	1403.8	1433.8	2199.9	2069.5	2115.7	2067.5	2476.6	2478.6	2899.8	3146.4
50°	1273.4	1265.4	1267.4	1207.2	1953.2	1672.5	1790.8	2272.1	2322.2	2675.2
52.5°	1187.2	1185.2	1062.8	944.5	1227.3	1471.9	1299.5	1644.4	1726.6	2266.1
55°	878.3	942.5	838.2	888.4	768.1	1179.2	1173.1	1484.0	1512.0	1816.9
57.5°	8.0	10.0	24.1	675.8	531.4	589.6	810.2	1012.7	1062.8	1415.8
60°	2.0	4.0	10.0	20.1	344.9	363.0	541.4	585.6	659.8	844.3
62.5°	0.0	0.0	4.0	10.0	18.0	148.4	172.5	188.5	290.8	431.2
65°	0.0	0.0	2.0	6.0	10.0	24.1	42.1	88.2	126.3	156.4
67.5°	0.0	0.0	2.0	4.0	8.0	12.0	24.1	34.1	54.1	92.2
70°	0.0	0.0	2.0	4.0	6.0	10.0	16.0	24.1	32.1	46.1
72.5°	0.0	0.0	2.0	4.0	4.0	12.0	12.0	18.0	24.1	30.1
75°	0.0	0.0	2.0	2.0	4.0	8.0	12.0	14.0	16.0	24.1
77.5°	0.0	0.0	2.0	4.0	6.0	8.0	10.0	16.0	14.0	14.0
80°	0.0	0.0	2.0	6.0	6.0	10.0	12.0	16.0	10.0	10.0
82.5°	0.0	0.0	2.0	8.0	6.0	20.1	20.1	22.1	8.0	8.0
85°	0.0	0.0	6.0	4.0	12.0	20.1	18.0	12.0	10.0	6.0
87.5°	0.0	0.0	2.0	2.0	4.0	6.0	14.0	12.0	4.0	4.0
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°
5887.7	0°	5887.7	5887.7	5887.7	5887.7	5887.7	5887.7	5887.7	5887.7	5887.7
5851.6	2.5°	5931.9	5905.8	5959.9	5953.9	5927.8	5915.8	5901.8	5889.7	5801.5
5855.7	5°	5933.9	5893.8	5959.9	5947.9	5943.9	5923.8	5911.8	5929.9	5849.6
5871.7	7.5°	5933.9	5893.8	5965.9	5970.0	5963.9	5947.9	5945.9	5957.9	5891.7
5899.8	10°	5974.0	5957.9	6018.1	6024.1	6016.1	6012.1	6002.0	5994.0	5923.8
5996.0	12.5°	6058.2	6026.1	6094.3	6112.3	6106.3	6116.3	6092.3	6104.3	6032.1
6094.3	15°	6160.5	6162.5	6214.6	6254.7	6250.7	6282.8	6246.7	6278.8	6226.6
6206.6	17.5°	6316.9	6338.9	6413.1	6473.3	6495.4	6519.4	6495.4	6505.4	6431.2
6082.3	20°	6152.4	6234.7	6591.6	6701.9	6748.0	6770.1	6730.0	6742.0	6667.8
5929.9	22.5°	6004.0	6110.3	6427.2	6772.1	6914.5	6958.6	6944.6	6942.6	6914.5
5629.0	25°	5785.5	6000.0	6142.4	6507.4	6954.6	7034.8	7042.8	7040.8	6998.7
5444.6	27.5°	5516.7	5564.9	5933.9	6156.5	6673.8	6978.7	6966.6	6908.5	6852.3
5061.5	30°	5173.8	5392.4	5558.9	5913.8	6310.9	6806.2	6806.2	6762.1	6703.9
4925.2	32.5°	4999.4	5282.1	5436.5	5564.9	5903.8	6613.7	6693.9	6647.8	6601.6
4818.9	35°	4907.1	4949.2	5310.2	5426.5	5713.3	6242.7	6567.6	6521.4	6487.3
4536.1	37.5°	4704.6	4802.8	4971.3	5282.1	5370.4	5939.9	6399.1	6375.0	6334.9
4169.1	40°	4253.4	4516.1	4774.8	5069.6	5161.8	5550.8	6194.6	6204.6	6150.4
3778.1	42.5°	3986.7	4165.1	4570.2	4768.7	5017.4	5300.2	5996.0	6012.1	5974.0
3579.6	45°	3673.8	3872.4	4157.1	4518.1	4857.0	4955.2	5645.1	5813.5	5781.5
3184.5	47.5°	3387.1	3547.5	3896.4	4261.4	4636.4	4622.4	5242.0	5558.9	5514.7
2881.7	50°	2980.0	3260.7	3425.2	3760.1	4319.5	4357.6	4812.9	5260.1	5224.0
2448.5	52.5°	2512.7	2865.7	3180.5	3487.3	3998.7	4088.9	4413.8	4955.2	4931.2
1871.0	55°	2195.9	2452.6	2807.5	3054.2	3609.6	3850.3	4115.0	4664.5	4652.4
1538.1	57.5°	1562.2	2057.5	2350.3	2695.2	2988.0	3423.2	3619.7	4072.9	3960.6
852.3	60°	1058.8	1291.5	1648.4	2019.4	2215.9	2651.1	2833.6	3196.5	3166.5
509.4	62.5°	559.5	774.1	1028.7	1215.2	1357.6	1780.8	1857.0	2248.0	2238.0
204.5	65°	246.7	326.9	557.5	653.7	800.1	996.7	1062.8	1203.2	1169.1
100.3	67.5°	128.3	194.5	314.8	387.0	487.3	561.5	615.6	659.8	687.8
66.2	70°	78.2	142.4	194.5	268.7	334.9	395.1	437.2	497.3	533.4
34.1	72.5°	58.2	90.2	134.4	206.6	242.6	312.8	354.9	399.1	431.2
28.1	75°	32.1	60.2	108.3	162.4	194.5	254.7	292.8	322.9	332.9
16.0	77.5°	20.1	46.1	90.2	126.3	152.4	206.6	196.5	224.6	248.7
12.0	80°	14.0	34.1	70.2	104.3	106.3	132.4	156.4	180.5	196.5
8.0	82.5°	10.0	28.1	52.1	80.2	70.2	102.3	122.3	140.4	102.3
6.0	85°	8.0	20.1	26.1	48.1	40.1	72.2	62.2	60.2	40.1
4.0	87.5°	6.0	10.0	18.0	22.1	16.0	16.0	20.1	24.1	20.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
5887.7  
5741.3  
5781.5  
5815.5  
5865.7  
5968.0  
6140.4  
6367.0  
6615.7  
6824.2  
6934.5  
6808.2  
6681.9  
6563.5  
6439.2  
6294.8  
6138.4  
5970.0  
5785.5  
5546.8  
5230.0  
4947.2  
4666.5  
3948.6  
3168.5  
2240.0  
1155.1  
687.8  
535.4  
437.2  
326.9  
252.7  
198.5  
74.2  
40.1  
20.1  
0.0

(END OF REPORT)