

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: P638397

Luminaire Tested: **IFLD-S-SA3C-735-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638397  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-735-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (48) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15398 lumens  
Efficiency: N/A  
Efficacy: 95.8 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

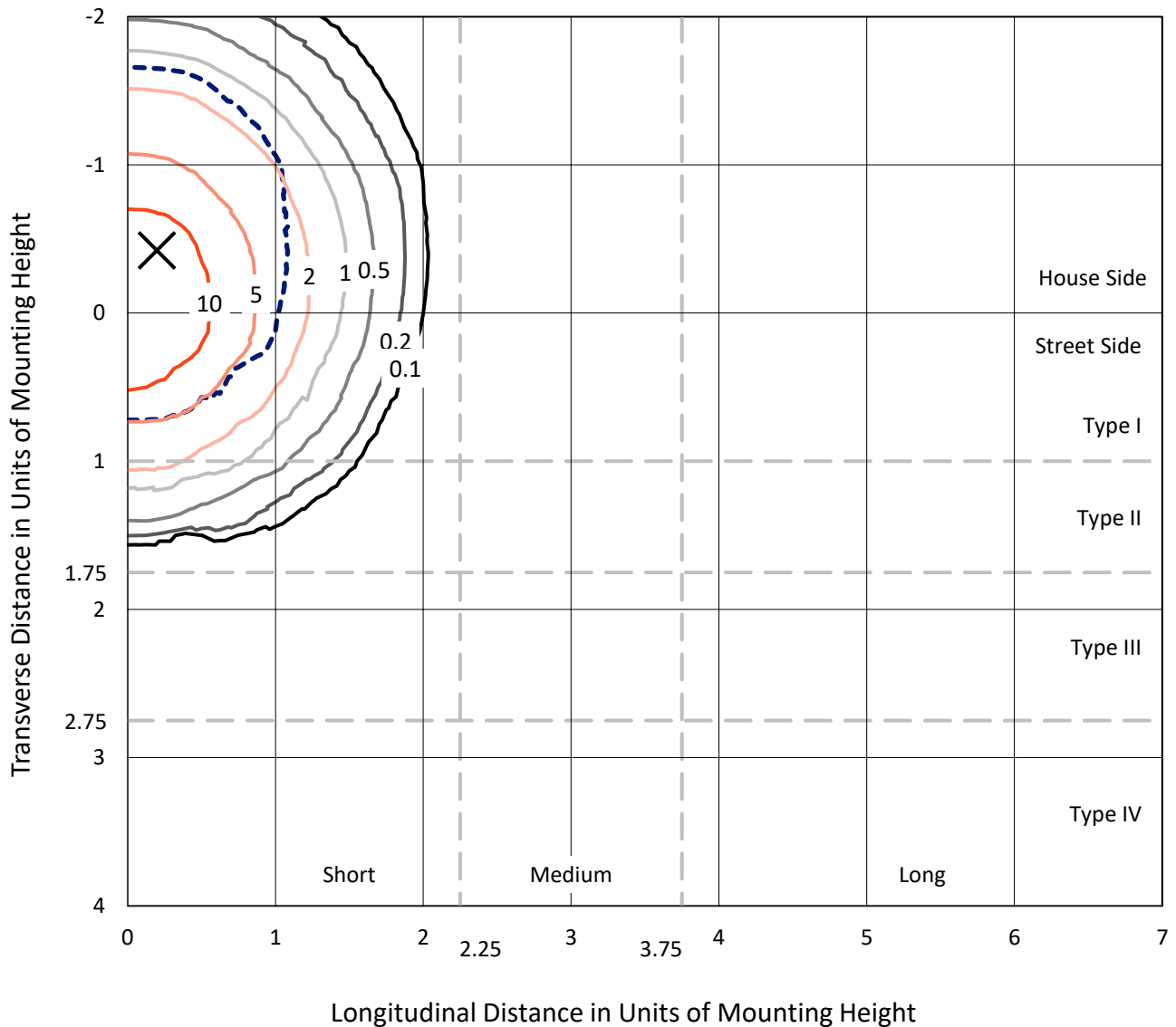
Input Watts (W): 160.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

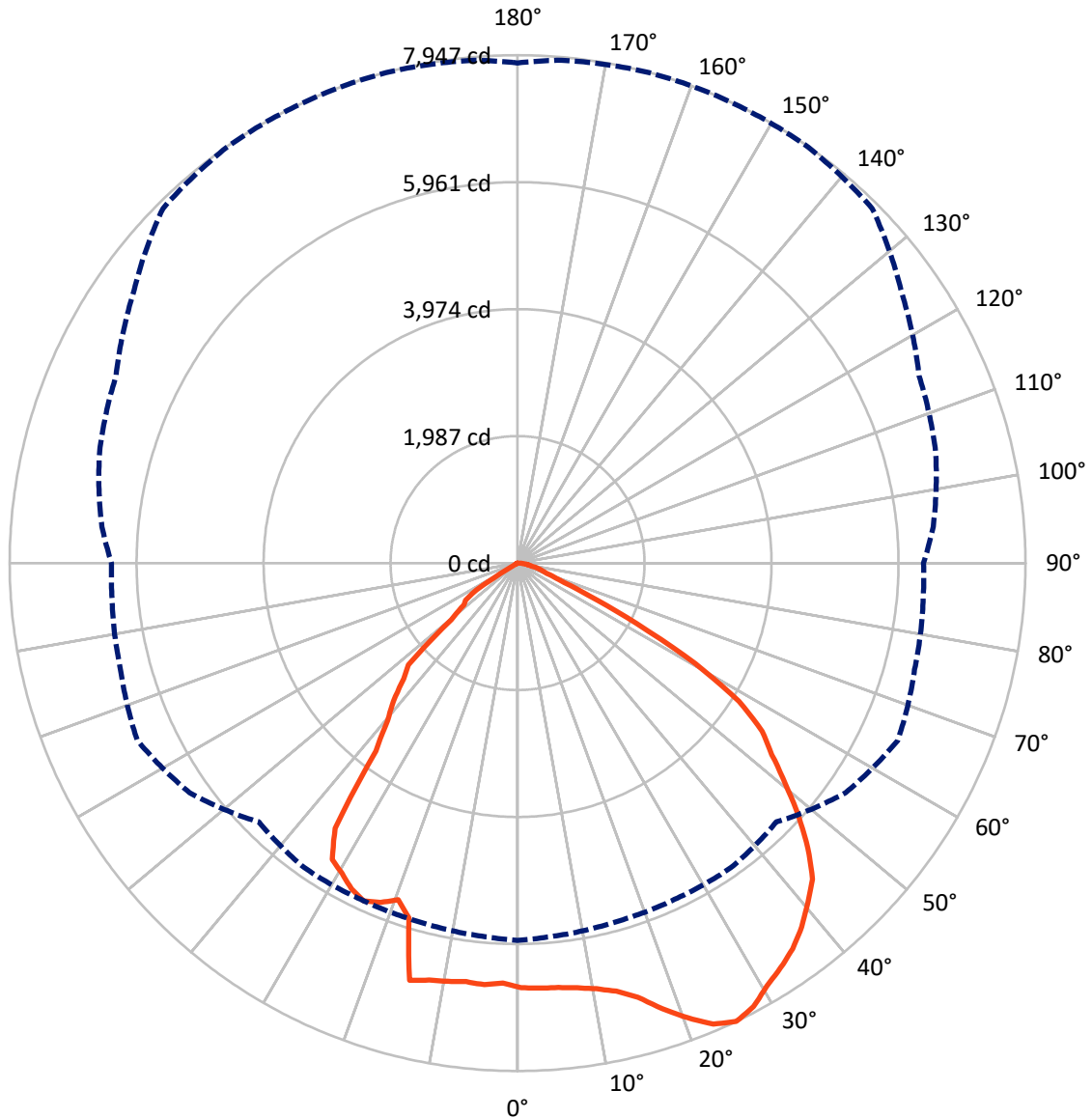
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16.6 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	9532.9	0.0	9532.9
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	5865.1	0.0	5865.1
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	15398.0	0.0	15398.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	637.4	4.1
10°-20°	1946.3	12.6
20°-30°	3076.9	20.0
30°-40°	3475.7	22.6
40°-50°	3255.0	21.1
50°-60°	2244.1	14.6
60°-70°	602.9	3.9
70°-80°	125.6	0.8
80°-90°	34.0	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°	15398.0	100.0
0°-180°	15398.0	100.0



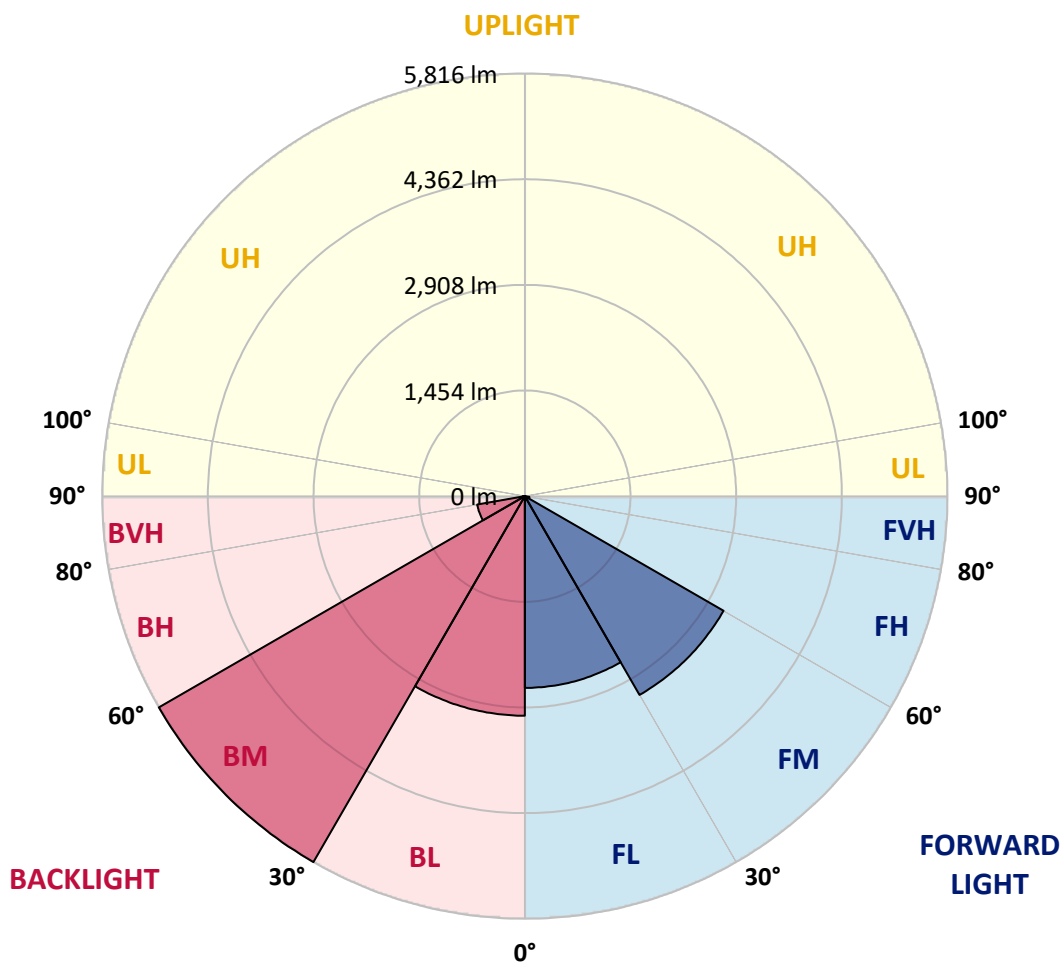
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2638.7	17.1			
FM (30°-60°)	3158.5	20.5			
FH (60°-80°)	63.3	0.4			G0/660
FVH (80°-90°)	4.6	0.0			G0/10
BL (0°-30°)	3021.9	19.6	B4/5000		
BM (30°-60°)	5816.4	37.8	B4/8500		
BH (60°-80°)	665.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	29.4	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°	6644.0	6644.0	6644.0	6644.0	6644.0	6644.0	6644.0	6644.0	6644.0	6644.0
2.5°	6673.4	6630.4	6589.7	6576.1	6632.7	6693.8	6655.3	6657.5	6644.0	6668.9
5°	6723.2	6664.3	6637.2	6616.8	6625.9	6689.2	6634.9	6655.3	6632.7	6662.1
7.5°	6705.1	6664.3	6637.2	6598.7	6628.1	6702.8	6650.8	6653.0	6641.7	6668.9
10°	6693.8	6664.3	6630.4	6634.9	6668.9	6732.2	6691.5	6714.1	6698.3	6714.1
12.5°	6720.9	6689.2	6671.1	6671.1	6700.5	6773.0	6752.6	6773.0	6766.2	6779.7
15°	6465.2	6494.6	6666.6	6743.5	6802.4	6874.8	6865.7	6886.1	6890.6	6911.0
17.5°	5453.7	5424.2	5410.7	5806.7	6858.9	7083.0	7076.2	7073.9	7051.3	7035.5
20°	5587.2	5575.9	5560.0	5589.4	5707.1	7191.6	7236.9	6958.5	6877.0	6870.3
22.5°	5799.9	5781.8	5723.0	5725.2	5761.4	6252.5	7012.8	6759.4	6732.2	6716.4
25°	5904.0	5867.8	5820.3	5806.7	5818.0	5727.5	6263.8	6564.8	6431.3	6370.2
27.5°	5720.7	5723.0	5684.5	5720.7	5677.7	5270.4	5041.8	6184.6	6180.1	6152.9
30°	5582.7	5575.9	5530.6	5575.9	5279.4	4824.6	4727.3	5768.2	5720.7	5684.5
32.5°	5159.5	5164.0	5295.3	5471.8	4985.2	4625.4	4331.3	5152.7	5603.0	5582.7
35°	3690.8	3699.9	4166.1	5037.3	4539.4	4229.4	4206.8	4453.4	5417.5	5426.5
37.5°	3552.8	3552.8	3541.5	3684.1	4188.7	4068.8	4114.0	4089.1	4962.6	4985.2
40°	3453.2	3432.9	3417.0	3193.0	2912.4	3955.6	3987.3	3874.1	4691.1	4695.6
42.5°	3333.3	3310.7	3315.2	2901.1	2606.9	3675.0	3586.7	3435.1	4238.5	4243.0
45°	3113.8	3152.3	3179.4	2539.0	2516.4	2625.0	3308.4	3213.4	3933.0	4016.7
47.5°	1584.1	1618.0	2482.4	2335.3	2387.4	2333.1	2794.7	2797.0	3272.2	3550.5
50°	1437.0	1427.9	1430.2	1362.3	2204.1	1887.3	2020.8	2563.9	2620.5	3018.8
52.5°	1339.7	1337.4	1199.4	1065.8	1384.9	1661.0	1466.4	1855.6	1948.4	2557.1
55°	991.2	1063.6	945.9	1002.5	866.7	1330.6	1323.8	1674.6	1706.3	2050.2
57.5°	9.1	11.3	27.2	762.6	599.7	665.3	914.2	1142.8	1199.4	1597.6
60°	2.3	4.5	11.3	22.6	389.2	409.6	611.0	660.8	744.5	952.7
62.5°	0.0	0.0	4.5	11.3	20.4	167.5	194.6	212.7	328.1	486.5
65°	0.0	0.0	2.3	6.8	11.3	27.2	47.5	99.6	142.6	176.5
67.5°	0.0	0.0	2.3	4.5	9.1	13.6	27.2	38.5	61.1	104.1
70°	0.0	0.0	2.3	4.5	6.8	11.3	18.1	27.2	36.2	52.0
72.5°	0.0	0.0	2.3	4.5	4.5	13.6	13.6	20.4	27.2	33.9
75°	0.0	0.0	2.3	2.3	4.5	9.1	13.6	15.8	18.1	27.2
77.5°	0.0	0.0	2.3	4.5	6.8	9.1	11.3	18.1	15.8	15.8
80°	0.0	0.0	2.3	6.8	6.8	11.3	13.6	18.1	11.3	11.3
82.5°	0.0	0.0	2.3	9.1	6.8	22.6	22.6	24.9	9.1	9.1
85°	0.0	0.0	6.8	4.5	13.6	22.6	20.4	13.6	11.3	6.8
87.5°	0.0	0.0	2.3	2.3	4.5	6.8	15.8	13.6	4.5	4.5
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°
6644.0	0°	6644.0	6644.0	6644.0	6644.0	6644.0	6644.0	6644.0	6644.0	6644.0
6603.2	2.5°	6693.8	6664.3	6725.4	6718.6	6689.2	6675.6	6659.8	6646.2	6546.7
6607.8	5°	6696.0	6650.8	6725.4	6711.9	6707.3	6684.7	6671.1	6691.5	6601.0
6625.9	7.5°	6696.0	6650.8	6732.2	6736.7	6730.0	6711.9	6709.6	6723.2	6648.5
6657.5	10°	6741.3	6723.2	6791.1	6797.8	6788.8	6784.3	6773.0	6763.9	6684.7
6766.2	12.5°	6836.3	6800.1	6877.0	6897.4	6890.6	6901.9	6874.8	6888.4	6806.9
6877.0	15°	6951.7	6954.0	7012.8	7058.1	7053.6	7089.8	7049.0	7085.2	7026.4
7003.8	17.5°	7128.2	7153.1	7236.9	7304.7	7329.6	7356.8	7329.6	7341.0	7257.2
6863.5	20°	6942.7	7035.5	7438.3	7562.7	7614.8	7639.7	7594.4	7608.0	7524.2
6691.5	22.5°	6775.2	6895.2	7252.7	7641.9	7802.6	7852.4	7836.5	7834.3	7802.6
6352.0	25°	6528.6	6770.7	6931.4	7343.2	7847.8	7938.4	7947.4	7945.2	7897.6
6143.9	27.5°	6225.3	6279.6	6696.0	6947.2	7531.0	7875.0	7861.4	7795.8	7732.4
5711.6	30°	5838.4	6085.0	6272.8	6673.4	7121.4	7680.4	7680.4	7630.6	7565.0
5557.8	32.5°	5641.5	5960.6	6134.8	6279.6	6662.1	7463.1	7553.7	7501.6	7449.6
5437.8	35°	5537.4	5584.9	5992.2	6123.5	6447.1	7044.5	7411.1	7359.1	7320.6
5118.8	37.5°	5308.8	5419.7	5609.8	5960.6	6060.1	6702.8	7221.0	7193.9	7148.6
4704.6	40°	4799.7	5096.1	5388.0	5720.7	5824.8	6263.8	6990.2	7001.5	6940.4
4263.4	42.5°	4498.7	4700.1	5157.2	5381.3	5661.9	5980.9	6766.2	6784.3	6741.3
4039.3	45°	4145.7	4369.7	4691.1	5098.4	5480.8	5591.7	6370.2	6560.2	6524.0
3593.5	47.5°	3822.1	4003.1	4396.9	4808.7	5231.9	5216.1	5915.3	6272.8	6223.1
3251.8	50°	3362.7	3679.5	3865.1	4243.0	4874.4	4917.4	5431.0	5935.7	5894.9
2763.0	52.5°	2835.5	3233.7	3589.0	3935.2	4512.3	4614.1	4980.7	5591.7	5564.5
2111.3	55°	2477.9	2767.6	3168.1	3446.4	4073.3	4344.8	4643.5	5263.6	5250.0
1735.7	57.5°	1762.8	2321.8	2652.2	3041.4	3371.8	3862.8	4084.6	4596.0	4469.3
961.7	60°	1194.8	1457.3	1860.1	2278.8	2500.5	2991.6	3197.5	3607.1	3573.2
574.8	62.5°	631.4	873.5	1160.9	1371.3	1532.0	2009.5	2095.5	2536.7	2525.4
230.8	65°	278.3	368.9	629.1	737.7	902.9	1124.7	1199.4	1357.8	1319.3
113.1	67.5°	144.8	219.5	355.3	436.7	549.9	633.6	694.7	744.5	776.2
74.7	70°	88.3	160.7	219.5	303.2	377.9	445.8	493.3	561.2	601.9
38.5	72.5°	65.6	101.8	151.6	233.1	273.8	353.0	400.5	450.3	486.5
31.7	75°	36.2	67.9	122.2	183.3	219.5	287.4	330.4	364.3	375.6
18.1	77.5°	22.6	52.0	101.8	142.6	172.0	233.1	221.8	253.4	280.6
13.6	80°	15.8	38.5	79.2	117.7	119.9	149.4	176.5	203.7	221.8
9.1	82.5°	11.3	31.7	58.8	90.5	79.2	115.4	138.0	158.4	115.4
6.8	85°	9.1	22.6	29.4	54.3	45.3	81.5	70.2	67.9	45.3
4.5	87.5°	6.8	11.3	20.4	24.9	18.1	18.1	22.6	27.2	22.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
6644.0
6478.8
6524.0
6562.5
6619.1
6734.5
6929.1
7184.8
7465.4
7700.8
7825.2
7682.7
7540.1
7406.6
7266.3
7103.3
6926.8
6736.7
6528.6
6259.3
5901.7
5582.7
5265.8
4455.7
3575.4
2527.7
1303.4
776.2
604.2
493.3
368.9
285.1
224.0
83.7
45.3
22.6
0.0

(END OF REPORT)