

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: P638377

Luminaire Tested: **IFLD-M-SA4B-730-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638377  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-730-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (64) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15328.6 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

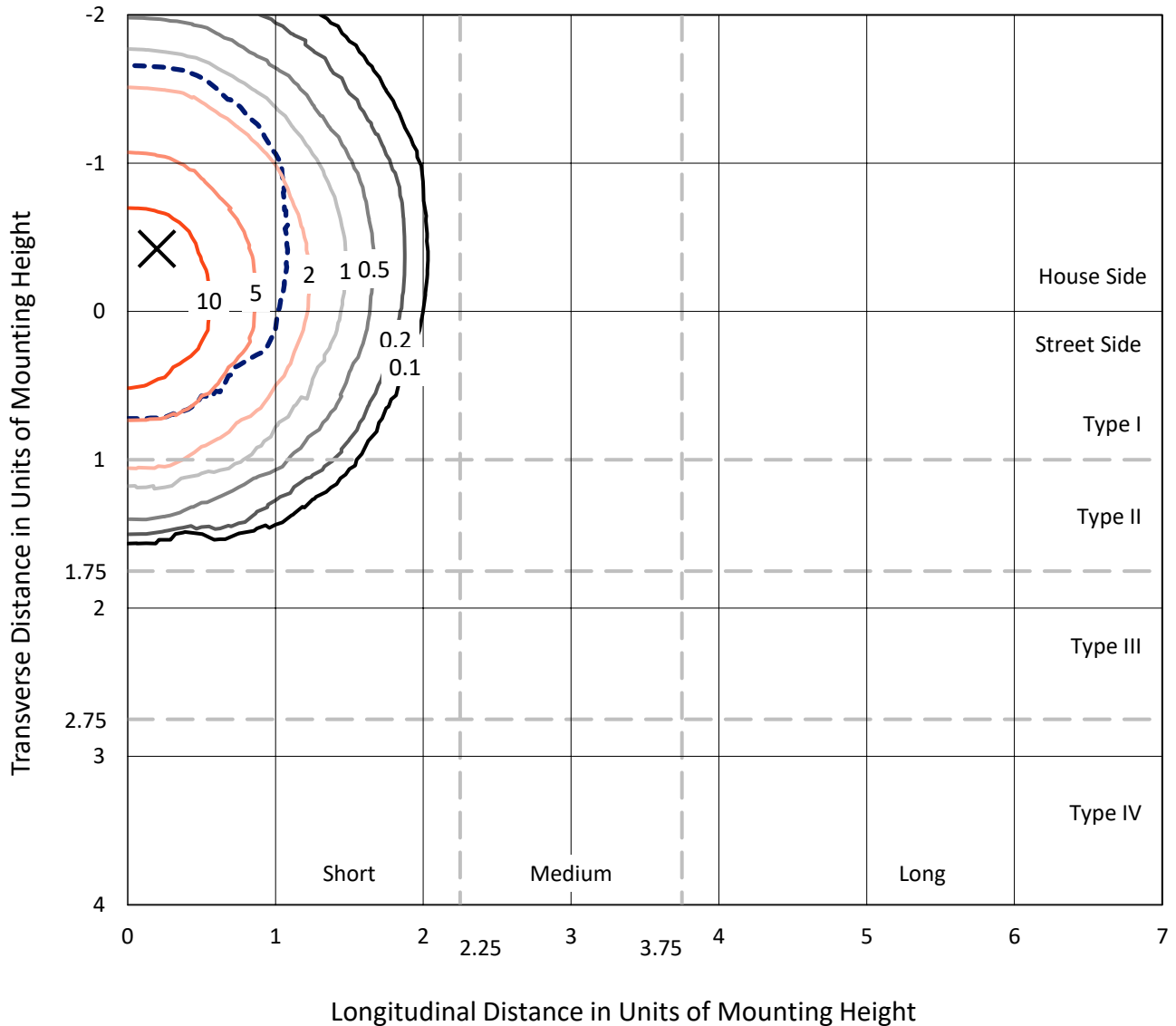
Input Watts (W): 166.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

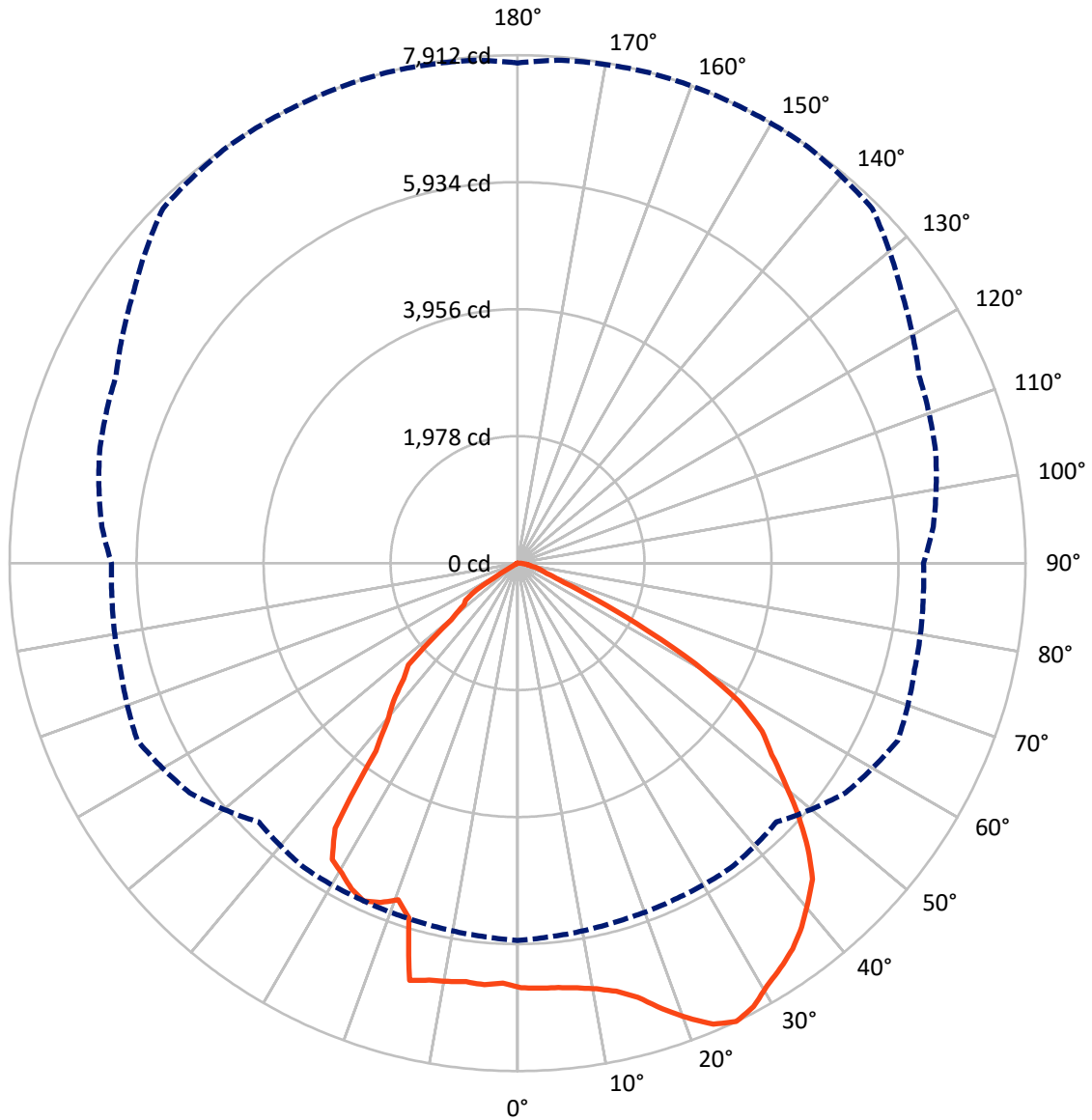
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16.5 fc  
 Type I - Short - N/A

REPORT NUMBER: P638377  
CATALOG NUMBER: IFLD-M-SA4B-730-U-LAM-VI

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P638377

CATALOG NUMBER: IFLD-M-SA4B-730-U-LAM-VI

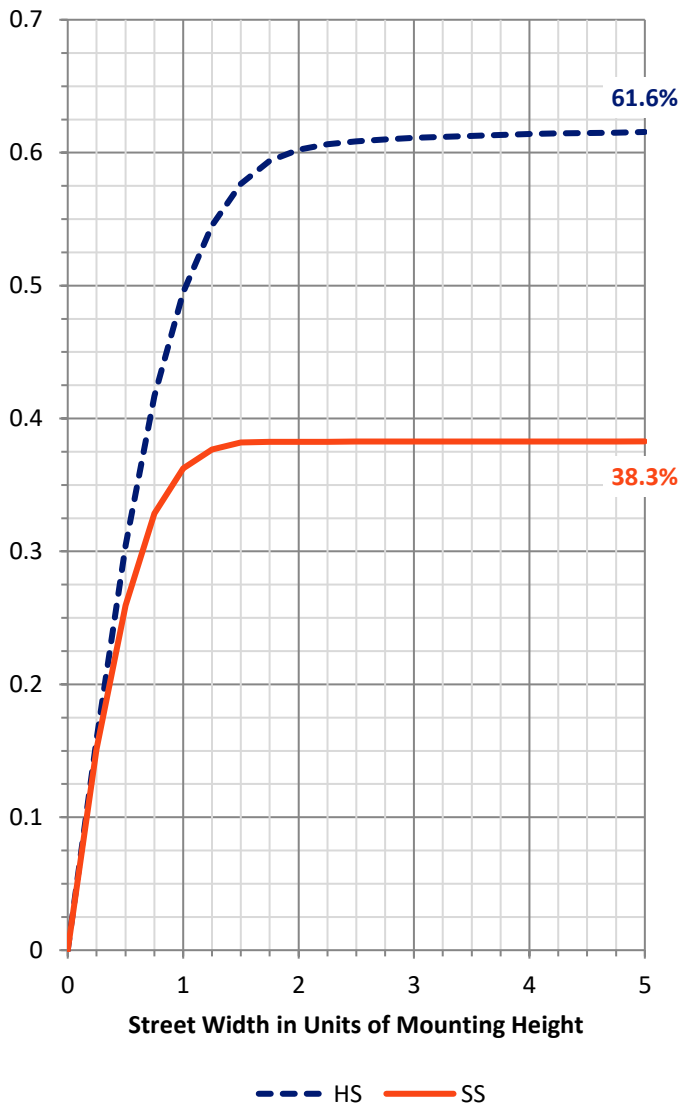
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9490.0	0.0	9490.0
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	5838.6	0.0	5838.6
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	15328.6	0.0	15328.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	634.5	4.1
10°-20°	1937.5	12.6
20°-30°	3063.1	20.0
30°-40°	3460.0	22.6
40°-50°	3240.4	21.1
50°-60°	2234.0	14.6
60°-70°	600.2	3.9
70°-80°	125.1	0.8
80°-90°	33.8	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°	15328.6	100.0
0°-180°	15328.6	100.0



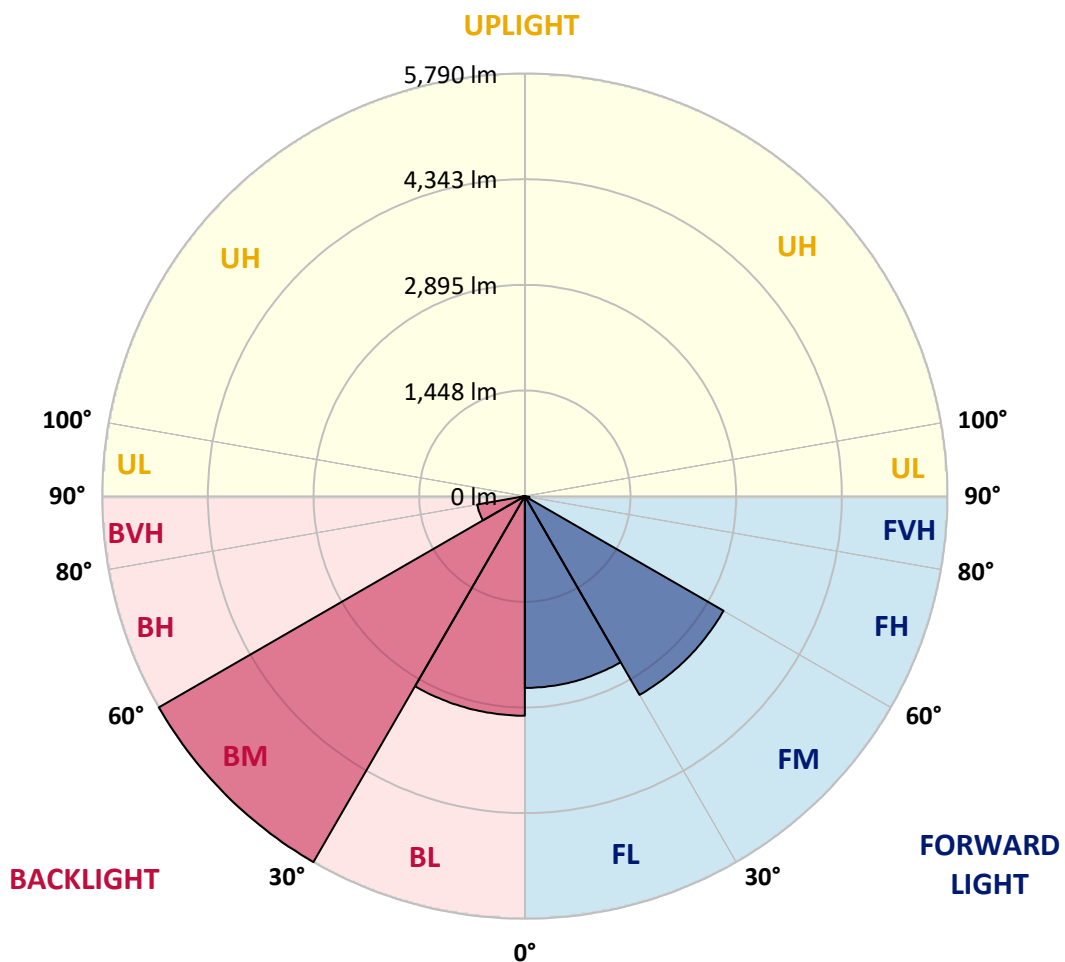
REPORT NUMBER: P638377  
 CATALOG NUMBER: IFLD-M-SA4B-730-U-LAM-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2626.8	17.1			
FM (30°-60°)	3144.2	20.5			
FH (60°-80°)	63.0	0.4			G0/660
FVH (80°-90°)	4.5	0.0			G0/10
BL (0°-30°)	3008.3	19.6	B4/5000		
BM (30°-60°)	5790.1	37.8	B4/8500		
BH (60°-80°)	662.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	29.3	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





REPORT NUMBER: P638377  
 CATALOG NUMBER: IFLD-M-SA4B-730-U-LAM-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6614.0	6614.0	6614.0	6614.0	6614.0	6614.0	6614.0	6614.0	6614.0	6614.0
2.5°	6643.3	6600.5	6559.9	6546.4	6602.8	6663.6	6625.3	6627.5	6614.0	6638.8
5°	6692.9	6634.3	6607.3	6587.0	6596.0	6659.1	6605.0	6625.3	6602.8	6632.0
7.5°	6674.8	6634.3	6607.3	6569.0	6598.2	6672.6	6620.8	6623.0	6611.8	6638.8
10°	6663.6	6634.3	6600.5	6605.0	6638.8	6701.9	6661.3	6683.8	6668.1	6683.8
12.5°	6690.6	6659.1	6641.0	6641.0	6670.3	6742.4	6722.1	6742.4	6735.7	6749.2
15°	6436.0	6465.3	6636.5	6713.1	6771.7	6843.8	6834.8	6855.1	6859.6	6879.8
17.5°	5429.1	5399.8	5386.3	5780.5	6828.0	7051.0	7044.3	7042.0	7019.5	7003.7
20°	5562.0	5550.7	5535.0	5564.2	5681.4	7159.2	7204.2	6927.1	6846.0	6839.3
22.5°	5773.7	5755.7	5697.2	5699.4	5735.4	6224.3	6981.2	6728.9	6701.9	6686.1
25°	5877.4	5841.3	5794.0	5780.5	5791.8	5701.7	6235.6	6535.2	6402.3	6341.4
27.5°	5694.9	5697.2	5658.9	5694.9	5652.1	5246.6	5019.1	6156.7	6152.2	6125.2
30°	5557.5	5550.7	5505.7	5550.7	5255.6	4802.8	4706.0	5742.2	5694.9	5658.9
32.5°	5136.2	5140.7	5271.4	5447.1	4962.8	4604.6	4311.7	5129.5	5577.8	5557.5
35°	3674.2	3683.2	4147.3	5014.6	4519.0	4210.4	4187.8	4433.4	5393.0	5402.0
37.5°	3536.8	3536.8	3525.5	3667.4	4169.8	4050.4	4095.5	4070.7	4940.2	4962.8
40°	3437.7	3417.4	3401.6	3178.6	2899.3	3937.8	3969.3	3856.7	4669.9	4674.4
42.5°	3318.3	3295.7	3300.2	2888.0	2595.1	3658.4	3570.6	3419.6	4219.4	4223.9
45°	3099.8	3138.1	3165.1	2527.6	2505.0	2613.2	3293.5	3198.9	3915.2	3998.6
47.5°	1576.9	1610.7	2471.2	2324.8	2376.6	2322.6	2782.1	2784.4	3257.4	3534.5
50°	1430.5	1421.5	1423.7	1356.1	2194.2	1878.8	2011.7	2552.3	2608.7	3005.1
52.5°	1333.6	1331.4	1193.9	1061.0	1378.7	1653.5	1459.8	1847.2	1939.6	2545.6
55°	986.7	1058.8	941.6	998.0	862.8	1324.6	1317.8	1667.0	1698.6	2041.0
57.5°	9.0	11.3	27.0	759.2	597.0	662.3	910.1	1137.6	1193.9	1590.4
60°	2.3	4.5	11.3	22.5	387.5	407.7	608.2	657.8	741.1	948.4
62.5°	0.0	0.0	4.5	11.3	20.3	166.7	193.7	211.8	326.6	484.3
65°	0.0	0.0	2.3	6.8	11.3	27.0	47.3	99.1	141.9	175.7
67.5°	0.0	0.0	2.3	4.5	9.0	13.5	27.0	38.3	60.8	103.6
70°	0.0	0.0	2.3	4.5	6.8	11.3	18.0	27.0	36.0	51.8
72.5°	0.0	0.0	2.3	4.5	4.5	13.5	13.5	20.3	27.0	33.8
75°	0.0	0.0	2.3	2.3	4.5	9.0	13.5	15.8	18.0	27.0
77.5°	0.0	0.0	2.3	4.5	6.8	9.0	11.3	18.0	15.8	15.8
80°	0.0	0.0	2.3	6.8	6.8	11.3	13.5	18.0	11.3	11.3
82.5°	0.0	0.0	2.3	9.0	6.8	22.5	22.5	24.8	9.0	9.0
85°	0.0	0.0	6.8	4.5	13.5	22.5	20.3	13.5	11.3	6.8
87.5°	0.0	0.0	2.3	2.3	4.5	6.8	15.8	13.5	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



REPORT NUMBER: P638377

CATALOG NUMBER: IFLD-M-SA4B-730-U-LAM-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
6614.0	0°	6614.0	6614.0	6614.0	6614.0	6614.0	6614.0	6614.0	6614.0	6614.0
6573.5	2.5°	6663.6	6634.3	6695.1	6688.4	6659.1	6645.6	6629.8	6616.3	6517.1
6578.0	5°	6665.8	6620.8	6695.1	6681.6	6677.1	6654.6	6641.0	6661.3	6571.2
6596.0	7.5°	6665.8	6620.8	6701.9	6706.4	6699.6	6681.6	6679.3	6692.9	6618.5
6627.5	10°	6710.9	6692.9	6760.4	6767.2	6758.2	6753.7	6742.4	6733.4	6654.6
6735.7	12.5°	6805.5	6769.5	6846.0	6866.3	6859.6	6870.8	6843.8	6857.3	6776.2
6846.0	15°	6920.4	6922.6	6981.2	7026.3	7021.8	7057.8	7017.3	7053.3	6994.7
6972.2	17.5°	7096.1	7120.9	7204.2	7271.8	7296.6	7323.6	7296.6	7307.9	7224.5
6832.5	20°	6911.4	7003.7	7404.7	7528.6	7580.4	7605.2	7560.2	7573.7	7490.3
6661.3	22.5°	6744.7	6864.1	7220.0	7607.5	7767.4	7817.0	7801.2	7798.9	7767.4
6323.4	25°	6499.1	6740.2	6900.1	7310.1	7812.5	7902.6	7911.6	7909.3	7862.0
6116.2	27.5°	6197.3	6251.3	6665.8	6915.9	7497.1	7839.5	7826.0	7760.7	7697.6
5685.9	30°	5812.0	6057.6	6244.6	6643.3	7089.3	7645.8	7645.8	7596.2	7530.9
5532.7	32.5°	5616.1	5933.7	6107.1	6251.3	6632.0	7429.5	7519.6	7467.8	7416.0
5413.3	35°	5512.4	5559.7	5965.2	6095.9	6418.0	7012.7	7377.7	7325.9	7287.6
5095.7	37.5°	5284.9	5395.3	5584.5	5933.7	6032.8	6672.6	7188.5	7161.4	7116.4
4683.4	40°	4778.0	5073.1	5363.7	5694.9	5798.5	6235.6	6958.7	6969.9	6909.1
4244.1	42.5°	4478.4	4678.9	5134.0	5357.0	5636.3	5954.0	6735.7	6753.7	6710.9
4021.1	45°	4127.0	4350.0	4669.9	5075.4	5456.1	5566.5	6341.4	6530.7	6494.6
3577.3	47.5°	3804.9	3985.1	4377.1	4787.1	5208.3	5192.5	5888.6	6244.6	6195.0
3237.2	50°	3347.6	3662.9	3847.7	4223.9	4852.4	4895.2	5406.6	5908.9	5868.4
2750.6	52.5°	2822.7	3219.2	3572.8	3917.5	4491.9	4593.3	4958.3	5566.5	5539.5
2101.8	55°	2466.7	2755.1	3153.8	3430.9	4054.9	4325.2	4622.6	5239.8	5226.3
1727.8	57.5°	1754.9	2311.3	2640.2	3027.7	3356.6	3845.4	4066.2	4575.3	4449.1
957.4	60°	1189.4	1450.8	1851.7	2268.5	2489.3	2978.1	3183.1	3590.9	3557.1
572.2	62.5°	628.5	869.6	1155.7	1365.2	1525.1	2000.4	2086.0	2525.3	2514.0
229.8	65°	277.1	367.2	626.3	734.4	898.8	1119.6	1193.9	1351.6	1313.3
112.6	67.5°	144.2	218.5	353.7	434.8	547.4	630.8	691.6	741.1	772.7
74.3	70°	87.9	159.9	218.5	301.9	376.2	443.8	491.1	558.7	599.2
38.3	72.5°	65.3	101.4	150.9	232.0	272.6	351.4	398.7	448.3	484.3
31.5	75°	36.0	67.6	121.6	182.5	218.5	286.1	328.9	362.7	374.0
18.0	77.5°	22.5	51.8	101.4	141.9	171.2	232.0	220.8	252.3	279.3
13.5	80°	15.8	38.3	78.8	117.1	119.4	148.7	175.7	202.7	220.8
9.0	82.5°	11.3	31.5	58.6	90.1	78.8	114.9	137.4	157.7	114.9
6.8	85°	9.0	22.5	29.3	54.1	45.1	81.1	69.8	67.6	45.1
4.5	87.5°	6.8	11.3	20.3	24.8	18.0	18.0	22.5	27.0	22.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
6614.0
6449.6
6494.6
6532.9
6589.2
6704.1
6897.9
7152.4
7431.8
7666.0
7789.9
7648.0
7506.1
7373.2
7233.5
7071.3
6895.6
6706.4
6499.1
6231.0
5875.1
5557.5
5242.1
4435.6
3559.3
2516.3
1297.6
772.7
601.5
491.1
367.2
283.8
223.0
83.4
45.1
22.5
0.0

(END OF REPORT)