

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: P481215

Luminaire Tested: **IFLD-S-SA6C-730-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481215  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-730-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

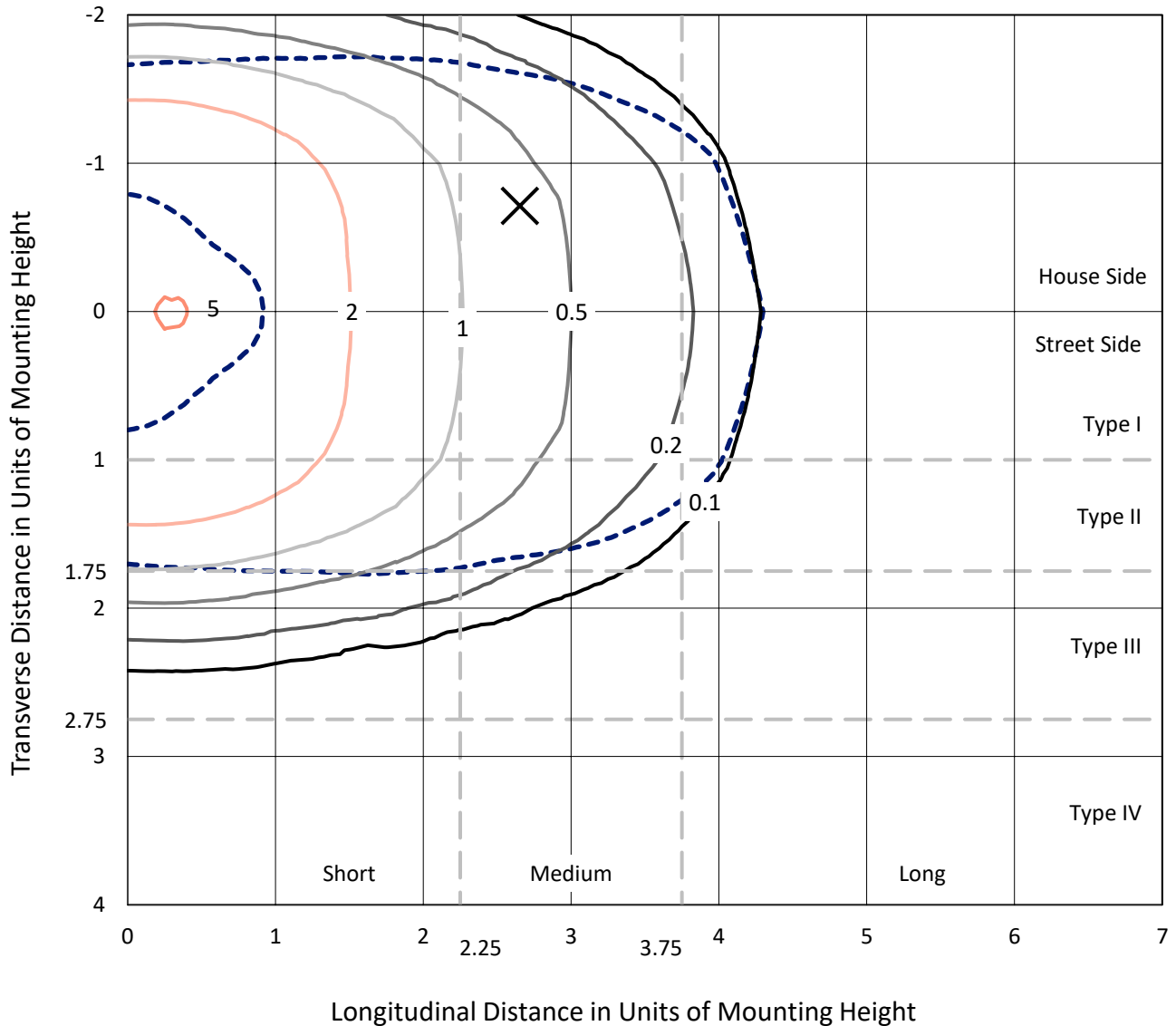
Lumens per Lamp: N/A  
Luminaire Lumens: 38973.2 lumens  
Efficiency: N/A  
Efficacy: 121.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 321.5  
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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

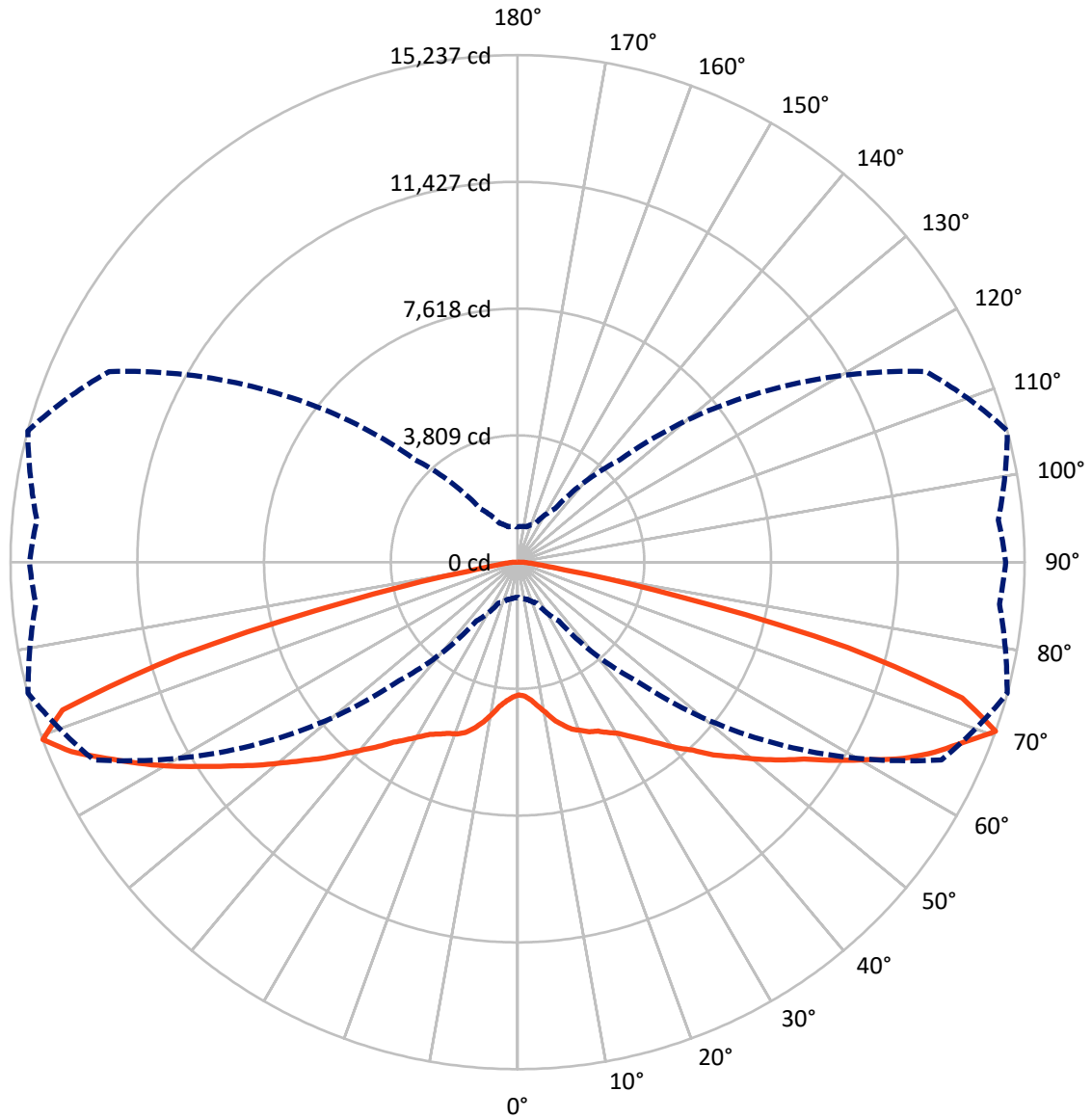
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P481215  
CATALOG NUMBER: IFLD-S-SA6C-730-U-RW

### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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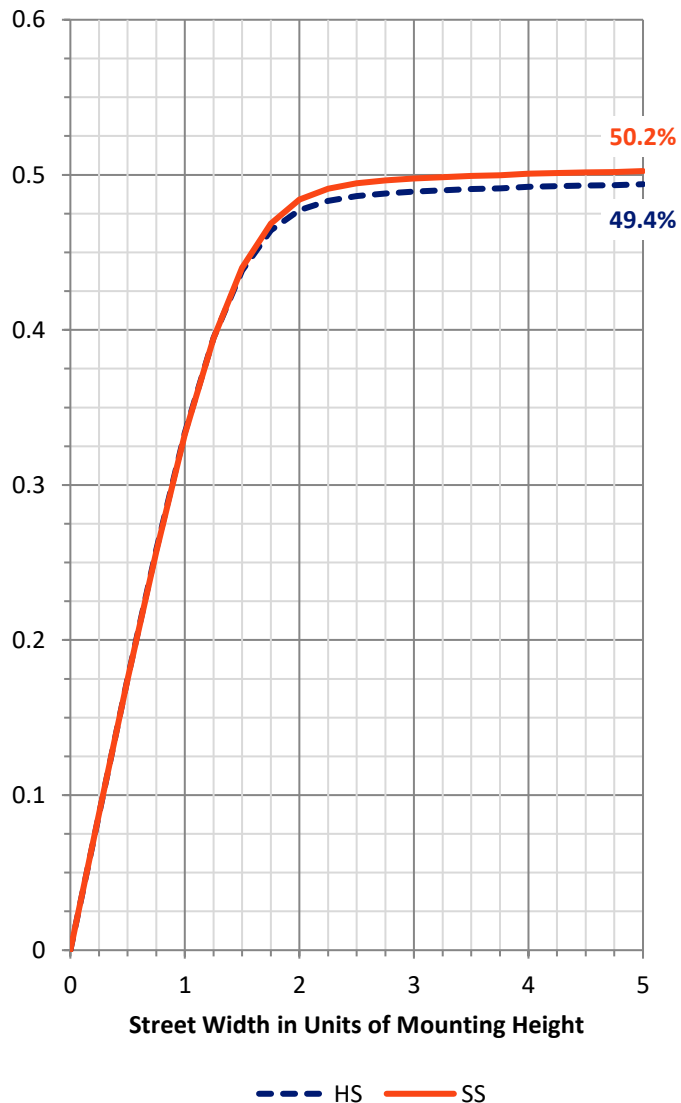
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19348.0	0.0	19348.0
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	19625.2	0.0	19625.2
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	38973.2	0.0	38973.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.2	1.0
10°-20°	1352.5	3.5
20°-30°	2618.9	6.7
30°-40°	4429.7	11.4
40°-50°	7066.6	18.1
50°-60°	9672.7	24.8
60°-70°	9117.1	23.4
70°-80°	4016.4	10.3
80°-90°	302.2	0.8
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°	38973.2	100.0
0°-180°	38973.2	100.0

**Coefficient of Utilization**

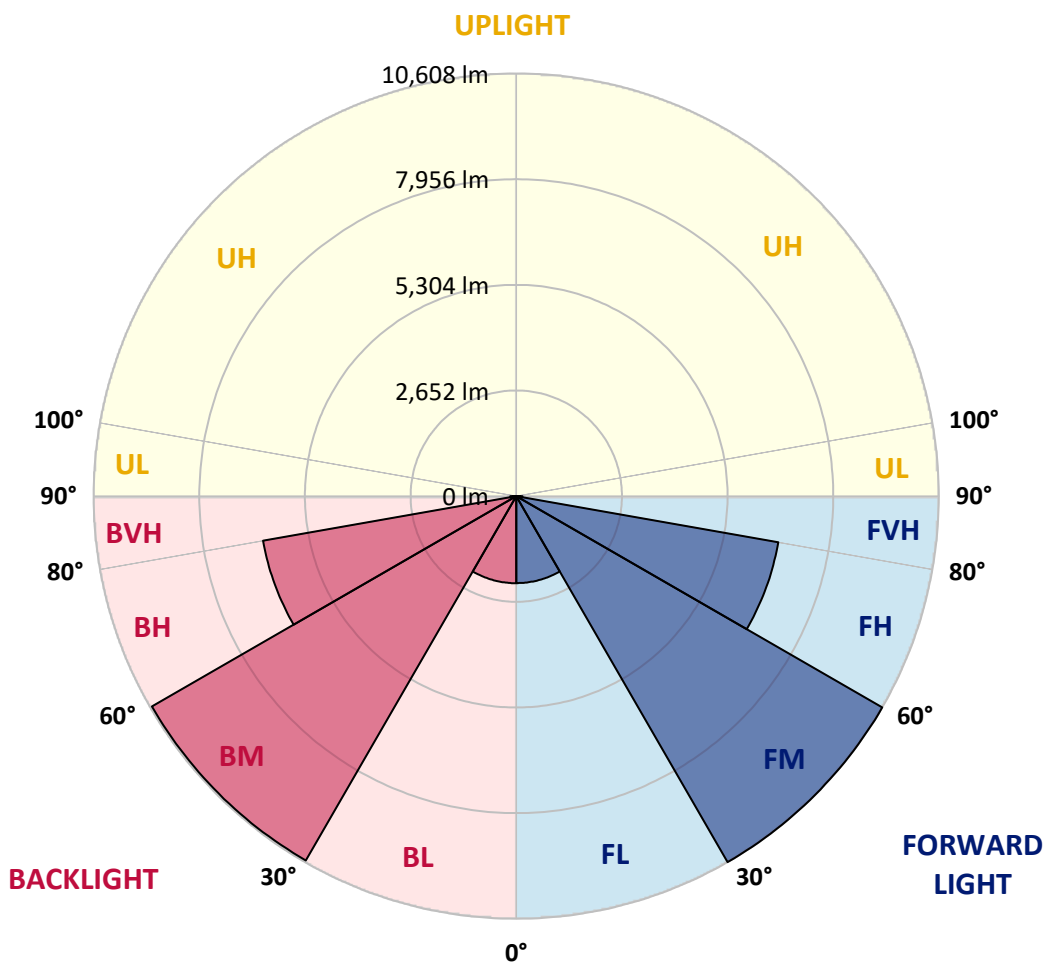


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 CATALOG NUMBER: IFLD-S-SA6C-730-U-RW

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2183.1	5.6			
FM (30°-60°)	10608.2	27.2			
FH (60°-80°)	6679.6	17.1			G3/7500
FVH (80°-90°)	154.4	0.4			G2/225
BL (0°-30°)	2185.5	5.6	B3/2500		
BM (30°-60°)	10560.8	27.1	B5		
BH (60°-80°)	6453.9	16.6	B5		G5
BVH (80°-90°)	147.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3990.8	3990.8	3990.8	3990.8	3990.8	3990.8	3990.8	3990.8	3990.8	3990.8	3990.8
2.5°	3965.6	3965.6	3961.4	3982.4	4003.4	4011.8	4028.6	4032.8	4058.0	4037.0	4079.0
5°	3953.0	3948.8	3982.4	4032.8	4032.8	4087.4	4121.0	4167.3	4179.9	4205.1	4213.5
7.5°	4041.2	4032.8	4016.0	4070.6	4116.8	4200.9	4247.1	4326.9	4356.3	4389.9	4427.7
10°	4095.8	4095.8	4079.0	4175.7	4217.7	4331.1	4431.9	4511.7	4625.2	4663.0	4667.2
12.5°	4104.2	4116.8	4167.3	4293.3	4410.9	4557.9	4633.6	4784.8	4898.2	4969.6	4994.8
15°	4230.3	4205.1	4259.7	4431.9	4604.1	4734.4	4868.8	4978.0	5141.9	5234.3	5293.1
17.5°	4343.7	4318.5	4419.3	4625.2	4801.6	5003.2	5120.9	5238.5	5356.1	5440.1	5444.3
20°	4524.3	4545.3	4633.6	4856.2	5087.2	5263.7	5398.1	5419.1	5477.9	5599.8	5578.7
22.5°	4747.0	4730.2	4915.0	5158.7	5410.7	5557.7	5633.4	5578.7	5549.3	5679.6	5709.0
25°	4969.6	5020.0	5188.1	5414.9	5717.4	5914.8	5935.8	5784.6	5675.4	5721.6	5709.0
27.5°	5309.9	5318.3	5494.7	5763.6	6070.2	6242.5	6229.9	6015.6	5805.6	5809.8	5818.2
30°	5746.8	5704.8	5898.0	6141.7	6444.1	6599.6	6620.6	6313.9	6032.4	5948.4	5969.4
32.5°	6166.9	6217.3	6385.3	6662.6	6885.2	6973.4	6927.2	6654.2	6288.7	6175.3	6187.9
35°	6704.6	6696.2	6927.2	7162.5	7330.5	7347.3	7309.5	6910.4	6566.0	6418.9	6360.1
37.5°	7280.1	7355.7	7506.9	7700.2	7876.6	7885.0	7679.2	7359.9	6935.6	6692.0	6763.4
40°	7922.8	8006.8	8116.1	8397.5	8527.8	8393.3	8183.3	7750.6	7309.5	7095.3	7128.9
42.5°	8489.9	8527.8	8750.4	9082.3	9145.3	9086.5	8775.6	8250.5	7738.0	7502.7	7519.5
45°	9010.9	9061.3	9351.1	9649.4	9796.4	9695.6	9334.3	8834.4	8237.9	8036.3	7956.4
47.5°	9489.8	9590.6	9872.0	10178.7	10405.5	10413.9	9968.6	9363.7	8733.6	8468.9	8464.7
50°	9813.2	9960.2	10237.5	10586.2	10918.0	11048.3	10603.0	9951.8	9275.5	8994.0	8964.6
52.5°	9989.7	10140.9	10418.1	10960.1	11329.7	11531.4	11321.3	10502.2	9909.8	9615.8	9569.6
55°	9775.4	9876.2	10329.9	11090.3	11661.6	11993.5	11854.8	11262.5	10540.0	10300.5	10342.5
57.5°	8863.8	9073.9	9632.6	10582.0	11653.2	12468.2	12455.6	11980.9	11266.7	11039.9	11048.3
60°	7296.9	7473.3	8162.3	9489.8	11182.7	12661.4	13106.7	12678.2	12081.7	11817.0	11808.6
62.5°	5150.3	5372.9	6171.1	7620.4	9796.4	12392.5	13854.4	13556.2	12879.8	12686.6	12758.0
65°	2881.8	3016.2	3755.6	5066.2	7464.9	10913.8	13988.9	14467.8	13690.6	13396.6	13409.2
67.5°	1541.7	1592.1	1936.6	2659.1	4566.3	8414.3	12632.0	14992.9	14568.6	14060.3	13980.5
70°	1058.6	1075.4	1163.6	1361.1	2159.2	5032.6	9527.6	14056.1	15228.1	14535.0	14669.4
72.5°	894.8	886.4	907.4	928.4	1130.0	2251.7	5591.3	10817.2	14375.4	14114.9	14064.5
75°	777.2	773.0	781.4	760.4	785.6	991.4	2474.3	6742.4	10523.2	11745.6	11934.7
77.5°	642.7	646.9	651.1	630.1	621.7	655.3	995.6	2961.6	5179.7	5717.4	6166.9
80°	487.3	495.7	529.3	508.3	474.7	478.9	588.1	991.4	1487.1	1348.5	1390.5
82.5°	331.9	336.1	407.5	382.3	357.1	323.5	378.1	512.5	579.7	441.1	386.5
85°	235.2	231.0	264.7	243.7	226.8	163.8	226.8	289.9	348.7	218.4	197.4
87.5°	54.6	54.6	109.2	88.2	84.0	67.2	88.2	113.4	151.2	96.6	88.2
90°	0.0	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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3990.8	3990.8	3990.8	3990.8	3990.8	3990.8	3990.8	3990.8	3990.8	3990.8
2.5°	4066.4	4028.6	4028.6	4020.2	3986.6	3978.2	3948.8	3957.2	3936.2	3915.2
5°	4209.3	4158.9	4158.9	4087.4	4020.2	4011.8	3978.2	3978.2	3944.6	3953.0
7.5°	4406.7	4360.5	4284.9	4221.9	4129.4	4091.6	4028.6	4020.2	4011.8	3995.0
10°	4642.0	4583.1	4507.5	4377.3	4301.7	4230.3	4167.3	4079.0	4058.0	4062.2
12.5°	4961.2	4868.8	4705.0	4591.5	4494.9	4402.5	4310.1	4179.9	4150.5	4163.1
15°	5188.1	5070.4	4906.6	4864.6	4734.4	4621.0	4469.7	4322.7	4272.3	4259.7
17.5°	5372.9	5276.3	5179.7	5116.7	5011.6	4873.0	4663.0	4494.9	4381.5	4368.9
20°	5524.1	5398.1	5377.1	5414.9	5284.7	5192.3	4936.0	4730.2	4578.9	4515.9
22.5°	5616.6	5536.7	5595.6	5629.2	5620.8	5465.3	5200.7	4961.2	4772.2	4713.4
25°	5717.4	5625.0	5835.0	5948.4	5977.8	5721.6	5515.7	5200.7	5015.8	4978.0
27.5°	5767.8	5801.4	6045.0	6284.5	6263.5	6066.0	5788.8	5507.3	5360.3	5293.1
30°	5914.8	5969.4	6339.1	6608.0	6612.2	6418.9	6208.9	5889.6	5725.8	5696.4
32.5°	6179.5	6246.7	6641.6	6927.2	6977.6	6830.6	6620.6	6423.1	6255.1	6187.9
35°	6381.1	6553.3	6998.6	7259.1	7393.5	7305.3	7187.7	6981.8	6805.4	6746.6
37.5°	6671.0	6910.4	7338.9	7691.8	7843.0	7834.6	7746.4	7523.7	7376.7	7326.3
40°	7086.9	7326.3	7717.0	8183.3	8464.7	8452.1	8401.7	8229.5	8011.0	7985.8
42.5°	7527.9	7725.4	8233.7	8767.2	9170.5	9128.5	8994.0	8792.4	8641.2	8607.6
45°	7956.4	8263.1	8733.6	9418.3	9720.8	9825.8	9666.2	9321.7	9149.5	9128.5
47.5°	8494.1	8737.8	9325.9	9939.2	10388.7	10405.5	10132.5	9813.2	9498.2	9565.4
50°	8973.0	9296.5	9893.0	10565.2	11102.9	10909.6	10561.0	10161.9	9935.0	9846.8
52.5°	9485.6	9880.4	10573.6	11258.3	11556.6	11363.3	10796.2	10350.9	10006.5	9968.6
55°	10233.3	10439.1	11346.5	11871.6	11968.3	11560.8	10724.8	10094.7	9649.4	9540.2
57.5°	10993.7	11233.1	12027.1	12480.8	12379.9	11451.6	10262.7	9288.1	8704.2	8548.8
60°	11762.4	12056.5	12724.4	13140.3	12619.4	10699.6	8956.2	7700.2	7019.6	6881.0
62.5°	12619.4	13001.7	13598.2	13745.2	11909.4	9212.5	7107.9	5557.7	4868.8	4637.8
65°	13379.8	13770.4	14505.6	13619.2	10401.3	6872.6	4595.7	3175.9	2667.5	2482.7
67.5°	14005.7	14446.8	14808.0	12052.3	7616.2	4024.4	2394.5	1671.9	1482.9	1415.7
70°	14501.4	15236.5	13547.8	8859.6	4352.1	1961.8	1293.9	1100.6	1075.4	1058.6
72.5°	14068.7	13972.1	10115.7	5112.5	1907.2	1079.6	936.8	907.4	903.2	907.4
75°	11506.2	10262.7	6049.2	2222.3	957.8	781.4	777.2	764.6	785.6	785.6
77.5°	5582.9	4881.4	2528.9	953.6	630.1	613.3	634.3	634.3	634.3	634.3
80°	1293.9	1432.5	903.2	579.7	457.9	457.9	504.1	508.3	487.3	478.9
82.5°	441.1	588.1	495.7	365.5	302.5	340.3	382.3	390.7	323.5	327.7
85°	218.4	344.5	268.9	210.0	155.4	210.0	247.9	260.5	222.6	214.2
87.5°	100.8	151.2	100.8	71.4	54.6	75.6	71.4	58.8	33.6	33.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)