

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: P481332

Luminaire Tested: **IFLD-S-SA6C-750-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481332  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-750-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

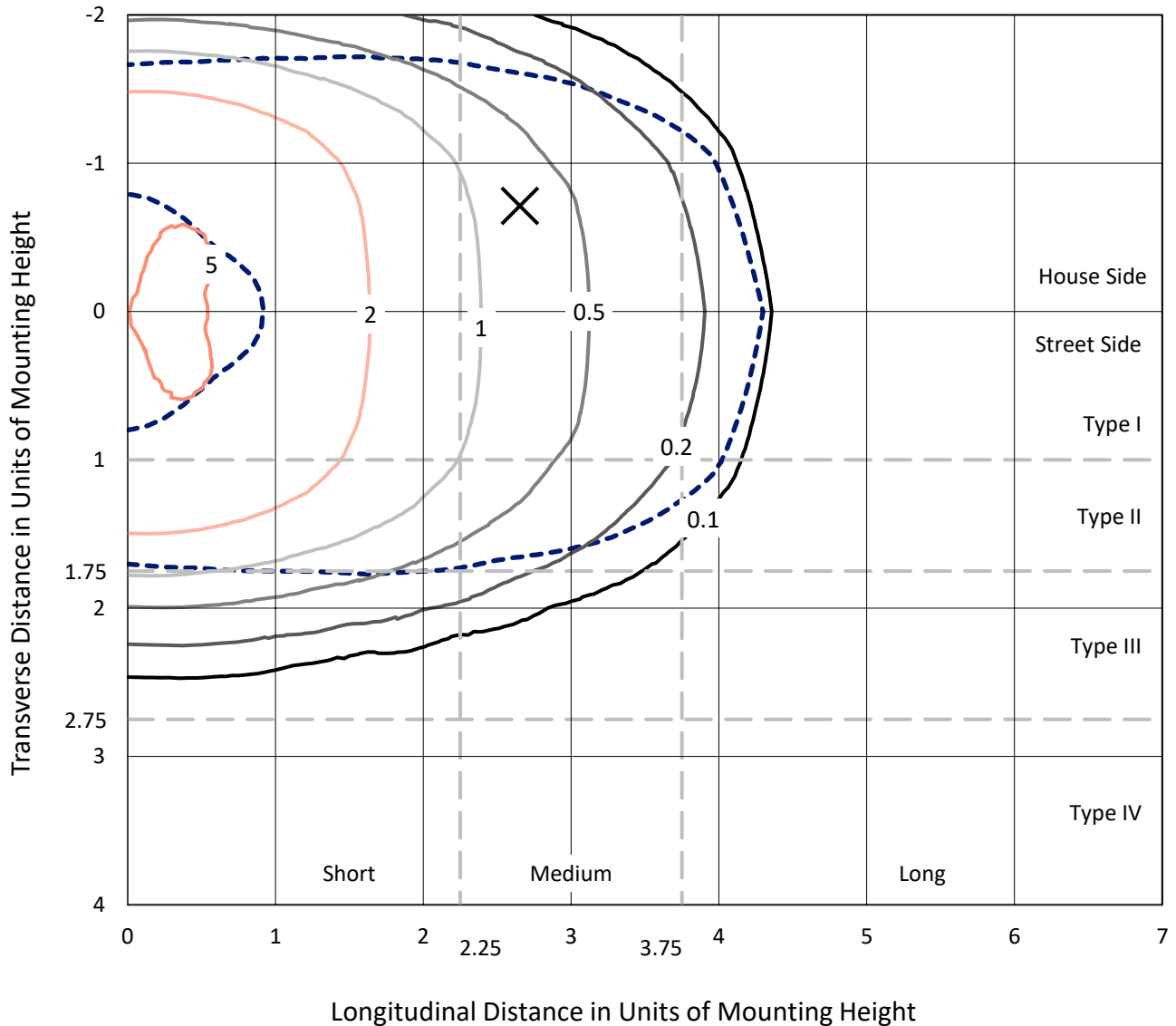
Lumens per Lamp: N/A  
Luminaire Lumens: 43779.6 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

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

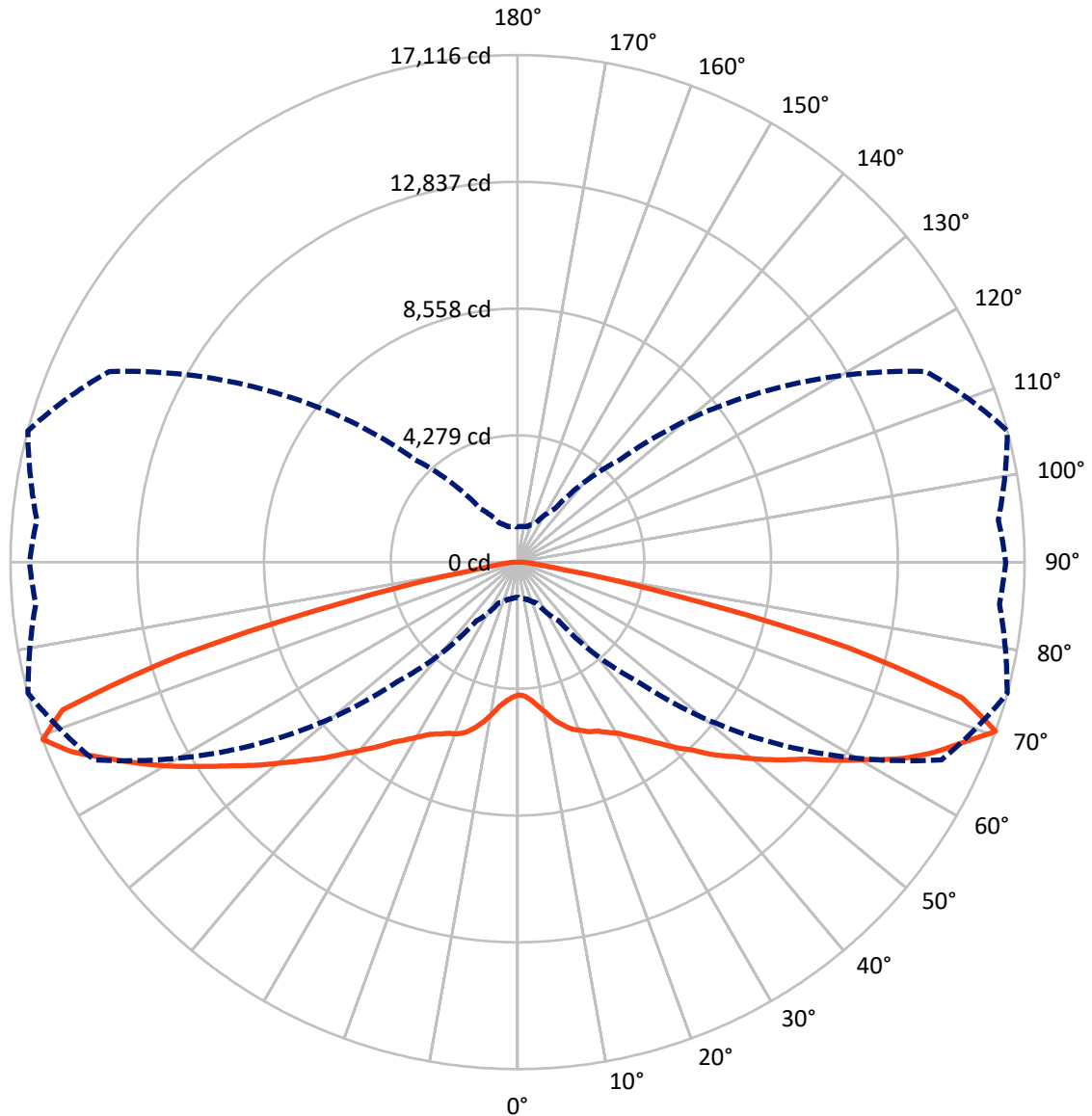
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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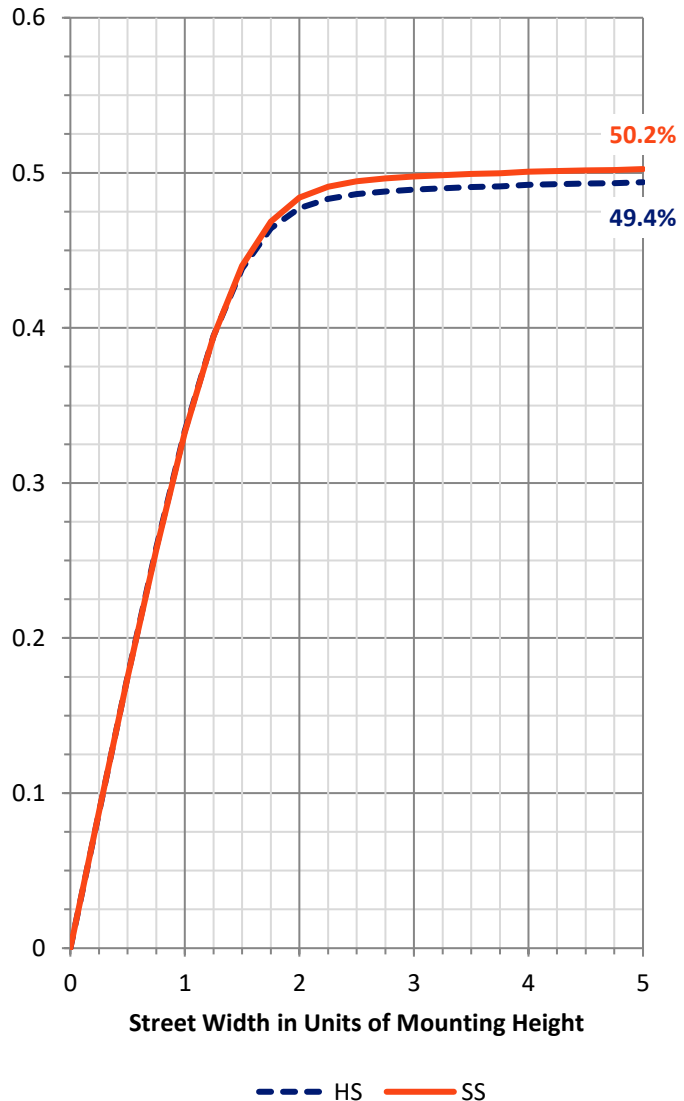
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21734.1	0.0	21734.1
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	22045.5	0.0	22045.5
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	43779.6	0.0	43779.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.2	1.0
10°-20°	1519.3	3.5
20°-30°	2941.9	6.7
30°-40°	4975.9	11.4
40°-50°	7938.1	18.1
50°-60°	10865.5	24.8
60°-70°	10241.5	23.4
70°-80°	4511.7	10.3
80°-90°	339.5	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°	43779.6	100.0
0°-180°	43779.6	100.0

**Coefficient of Utilization**

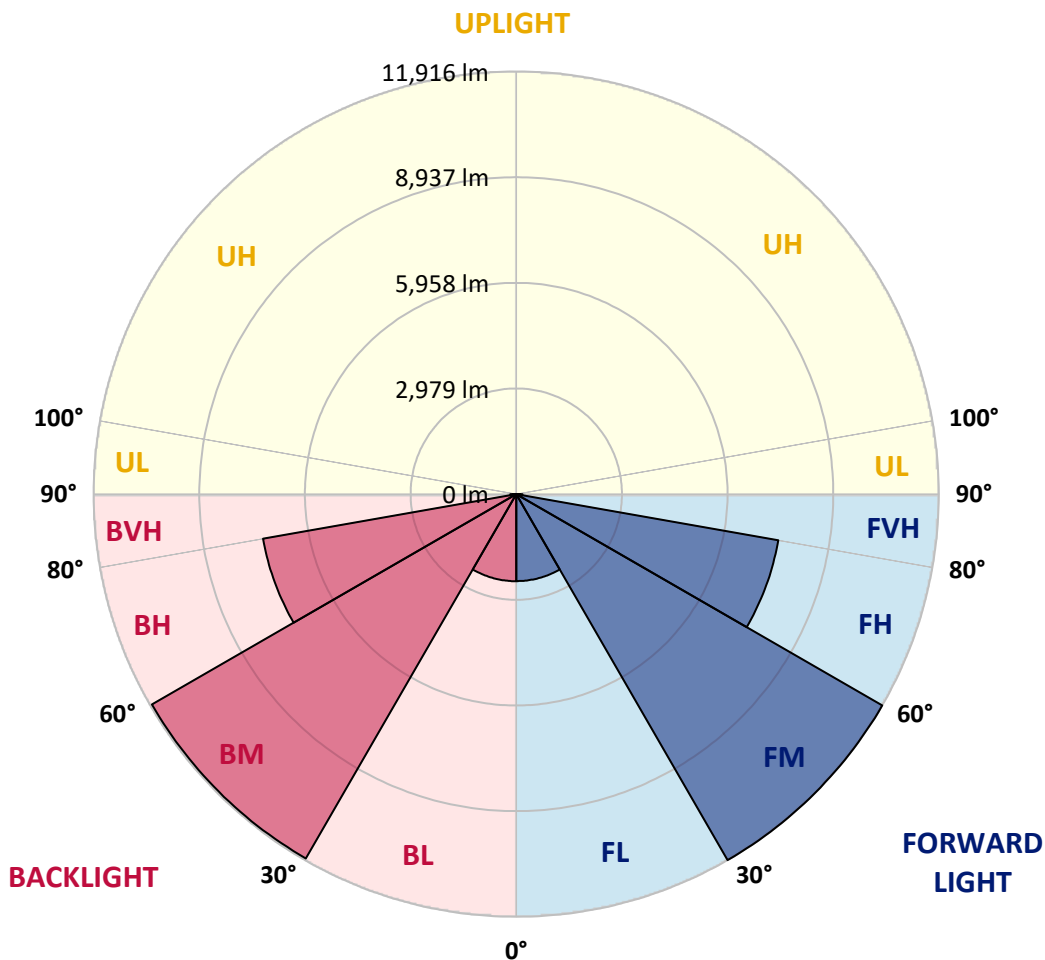


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2452.4	5.6			
FM (30°-60°)	11916.4	27.2			
FH (60°-80°)	7503.4	17.1			G4/12000
FVH (80°-90°)	173.4	0.4			G2/225
BL (0°-30°)	2455.0	5.6	B3/2500		
BM (30°-60°)	11863.2	27.1	B5		
BH (60°-80°)	7249.8	16.6	B5		G5
BVH (80°-90°)	166.1	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°	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0
2.5°	4454.7	4454.7	4450.0	4473.6	4497.1	4506.6	4525.5	4530.2	4558.5	4534.9	4582.1
5°	4440.5	4435.8	4473.6	4530.2	4530.2	4591.5	4629.3	4681.2	4695.3	4723.7	4733.1
7.5°	4539.6	4530.2	4511.3	4572.6	4624.6	4718.9	4770.8	4860.5	4893.5	4931.3	4973.8
10°	4601.0	4601.0	4582.1	4690.6	4737.8	4865.2	4978.5	5068.1	5195.5	5238.0	5242.7
12.5°	4610.4	4624.6	4681.2	4822.8	4954.9	5120.0	5205.0	5374.9	5502.3	5582.5	5610.8
15°	4752.0	4723.7	4785.0	4978.5	5172.0	5318.2	5469.2	5591.9	5776.0	5879.8	5945.9
17.5°	4879.4	4851.1	4964.3	5195.5	5393.7	5620.3	5752.4	5884.5	6016.6	6111.0	6115.7
20°	5082.3	5105.9	5205.0	5455.1	5714.6	5912.8	6063.8	6087.4	6153.5	6290.3	6266.7
22.5°	5332.4	5313.5	5521.2	5794.9	6078.0	6243.2	6328.1	6266.7	6233.7	6380.0	6413.0
25°	5582.5	5639.1	5827.9	6082.7	6422.5	6644.3	6667.9	6498.0	6375.3	6427.2	6413.0
27.5°	5964.7	5974.2	6172.4	6474.4	6818.9	7012.3	6998.2	6757.5	6521.6	6526.3	6535.7
30°	6455.5	6408.3	6625.4	6899.1	7238.8	7413.4	7437.0	7092.6	6776.4	6682.0	6705.6
32.5°	6927.4	6984.0	7172.8	7484.2	7734.3	7833.4	7781.5	7474.8	7064.2	6936.8	6951.0
35°	7531.4	7522.0	7781.5	8045.8	8234.5	8253.4	8210.9	7762.7	7375.7	7210.5	7144.5
37.5°	8177.9	8262.9	8432.7	8649.8	8848.0	8857.4	8626.2	8267.6	7791.0	7517.3	7597.5
40°	8899.9	8994.3	9117.0	9433.2	9579.4	9428.4	9192.5	8706.4	8210.9	7970.3	8008.0
42.5°	9537.0	9579.4	9829.5	10202.3	10273.1	10207.1	9857.9	9268.0	8692.3	8428.0	8446.9
45°	10122.1	10178.7	10504.4	10839.4	11004.6	10891.3	10485.5	9923.9	9253.8	9027.3	8937.7
47.5°	10660.1	10773.3	11089.5	11434.0	11688.8	11698.2	11198.0	10518.5	9810.7	9513.4	9508.7
50°	11023.4	11188.6	11500.0	11891.7	12264.5	12410.8	11910.6	11179.2	10419.4	10103.2	10070.2
52.5°	11221.6	11391.5	11703.0	12311.7	12727.0	12953.5	12717.5	11797.3	11132.0	10801.6	10749.7
55°	10981.0	11094.2	11603.9	12458.0	13099.8	13472.6	13316.8	12651.5	11839.8	11570.8	11618.0
57.5°	9957.0	10192.9	10820.5	11887.0	13090.3	14005.8	13991.6	13458.4	12656.2	12401.4	12410.8
60°	8196.8	8395.0	9168.9	10660.1	12561.8	14222.9	14723.1	14241.8	13571.7	13274.4	13264.9
62.5°	5785.4	6035.5	6932.1	8560.2	11004.6	13920.9	15563.1	15228.0	14468.3	14251.2	14331.4
65°	3237.2	3388.2	4218.7	5691.0	8385.6	12259.8	15714.1	16252.0	15379.0	15048.7	15062.8
67.5°	1731.8	1788.5	2175.4	2987.1	5129.5	9452.0	14189.8	16841.9	16365.3	15794.3	15704.6
70°	1189.2	1208.0	1307.1	1528.9	2425.5	5653.3	10702.5	15789.6	17106.1	16327.5	16478.5
72.5°	1005.1	995.7	1019.3	1042.9	1269.4	2529.3	6280.9	12151.3	16148.2	15855.6	15799.0
75°	873.0	868.3	877.7	854.1	882.4	1113.7	2779.5	7573.9	11820.9	13194.1	13406.5
77.5°	722.0	726.7	731.4	707.8	698.4	736.2	1118.4	3326.9	5818.4	6422.5	6927.4
80°	547.4	556.8	594.6	571.0	533.2	538.0	660.7	1113.7	1670.5	1514.8	1562.0
82.5°	372.8	377.5	457.7	429.4	401.1	363.4	424.7	575.7	651.2	495.5	434.1
85°	264.3	259.5	297.3	273.7	254.8	184.0	254.8	325.6	391.7	245.4	221.8
87.5°	61.3	61.3	122.7	99.1	94.4	75.5	99.1	127.4	169.9	108.5	99.1
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°	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0	4483.0
2.5°	4567.9	4525.5	4525.5	4516.0	4478.3	4468.8	4435.8	4445.2	4421.6	4398.0
5°	4728.4	4671.7	4671.7	4591.5	4516.0	4506.6	4468.8	4468.8	4431.1	4440.5
7.5°	4950.2	4898.3	4813.3	4742.5	4638.7	4596.2	4525.5	4516.0	4506.6	4487.7
10°	5214.4	5148.4	5063.4	4917.1	4832.2	4752.0	4681.2	4582.1	4558.5	4563.2
12.5°	5573.1	5469.2	5285.2	5157.8	5049.3	4945.4	4841.6	4695.3	4662.3	4676.5
15°	5827.9	5695.8	5511.7	5464.5	5318.2	5190.8	5020.9	4855.8	4799.2	4785.0
17.5°	6035.5	5927.0	5818.4	5747.7	5629.7	5474.0	5238.0	5049.3	4921.9	4907.7
20°	6205.4	6063.8	6040.2	6082.7	5936.4	5832.6	5544.8	5313.5	5143.6	5072.9
22.5°	6309.2	6219.6	6285.6	6323.4	6313.9	6139.3	5842.0	5573.1	5360.7	5294.6
25°	6422.5	6318.7	6554.6	6682.0	6715.0	6427.2	6196.0	5842.0	5634.4	5591.9
27.5°	6479.1	6516.9	6790.5	7059.5	7035.9	6814.1	6502.7	6186.5	6021.4	5945.9
30°	6644.3	6705.6	7120.9	7422.9	7427.6	7210.5	6974.6	6615.9	6431.9	6398.9
32.5°	6941.6	7017.1	7460.6	7781.5	7838.2	7673.0	7437.0	7215.3	7026.5	6951.0
35°	7168.1	7361.5	7861.7	8154.3	8305.3	8206.2	8074.1	7842.9	7644.7	7578.6
37.5°	7493.7	7762.7	8244.0	8640.4	8810.3	8800.8	8701.7	8451.6	8286.5	8229.8
40°	7960.8	8229.8	8668.7	9192.5	9508.7	9494.5	9437.9	9244.4	8999.0	8970.7
42.5°	8456.3	8678.1	9249.1	9848.4	10301.4	10254.2	10103.2	9876.7	9706.9	9669.1
45°	8937.7	9282.1	9810.7	10579.9	10919.6	11037.6	10858.3	10471.3	10277.8	10254.2
47.5°	9541.7	9815.4	10476.0	11165.0	11669.9	11688.8	11382.1	11023.4	10669.5	10745.0
50°	10079.6	10443.0	11113.1	11868.1	12472.1	12255.1	11863.4	11415.1	11160.3	11061.2
52.5°	10655.4	11098.9	11877.6	12646.7	12981.8	12764.7	12127.7	11627.5	11240.5	11198.0
55°	11495.3	11726.6	12745.8	13335.7	13444.3	12986.5	12047.4	11339.6	10839.4	10716.7
57.5°	12349.5	12618.4	13510.3	14020.0	13906.7	12863.8	11528.4	10433.6	9777.6	9603.0
60°	13213.0	13543.3	14293.7	14760.8	14175.7	12019.1	10060.8	8649.8	7885.3	7729.6
62.5°	14175.7	14605.1	15275.2	15440.4	13378.2	10348.6	7984.4	6243.2	5469.2	5209.7
65°	15029.8	15468.7	16294.5	15298.8	11684.1	7720.2	5162.5	3567.5	2996.5	2788.9
67.5°	15732.9	16228.4	16634.3	13538.6	8555.4	4520.7	2689.8	1878.1	1665.8	1590.3
70°	16289.8	17115.6	15218.6	9952.2	4888.8	2203.7	1453.4	1236.4	1208.0	1189.2
72.5°	15803.7	15695.2	11363.2	5742.9	2142.4	1212.8	1052.3	1019.3	1014.6	1019.3
75°	12925.2	11528.4	6795.3	2496.3	1075.9	877.7	873.0	858.8	882.4	882.4
77.5°	6271.5	5483.4	2840.8	1071.2	707.8	689.0	712.6	712.6	712.6	712.6
80°	1453.4	1609.2	1014.6	651.2	514.4	514.4	566.3	571.0	547.4	538.0
82.5°	495.5	660.7	556.8	410.5	339.8	382.2	429.4	438.9	363.4	368.1
85°	245.4	387.0	302.0	235.9	174.6	235.9	278.4	292.6	250.1	240.7
87.5°	113.3	169.9	113.3	80.2	61.3	84.9	80.2	66.1	37.8	37.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)