

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: P479304

Luminaire Tested: **IFLD-S-SA6C-735-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479304  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-735-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ  
distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

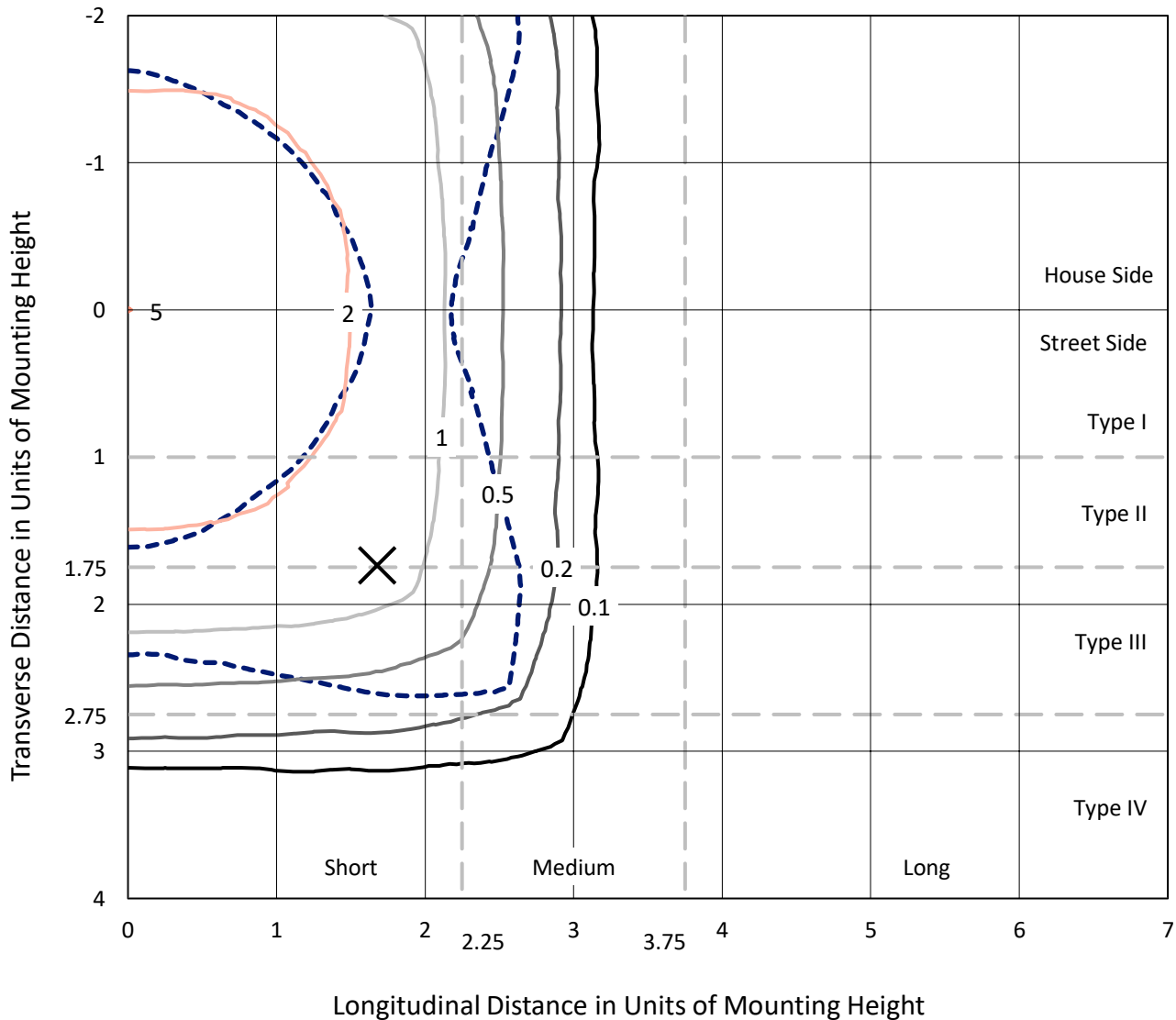
Lumens per Lamp: N/A  
Luminaire Lumens: 41368.2 lumens  
Efficiency: N/A  
Efficacy: 128.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

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

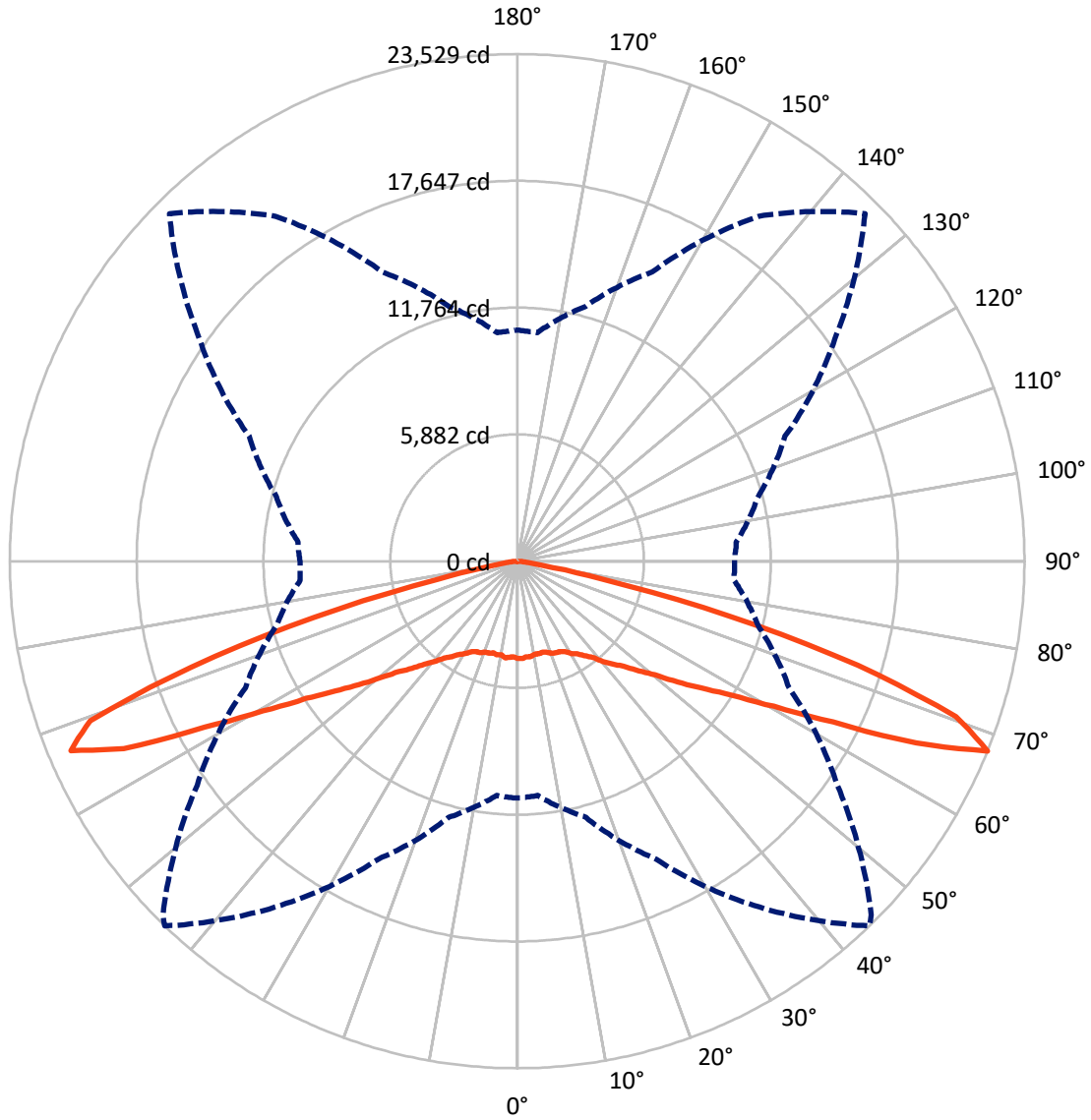
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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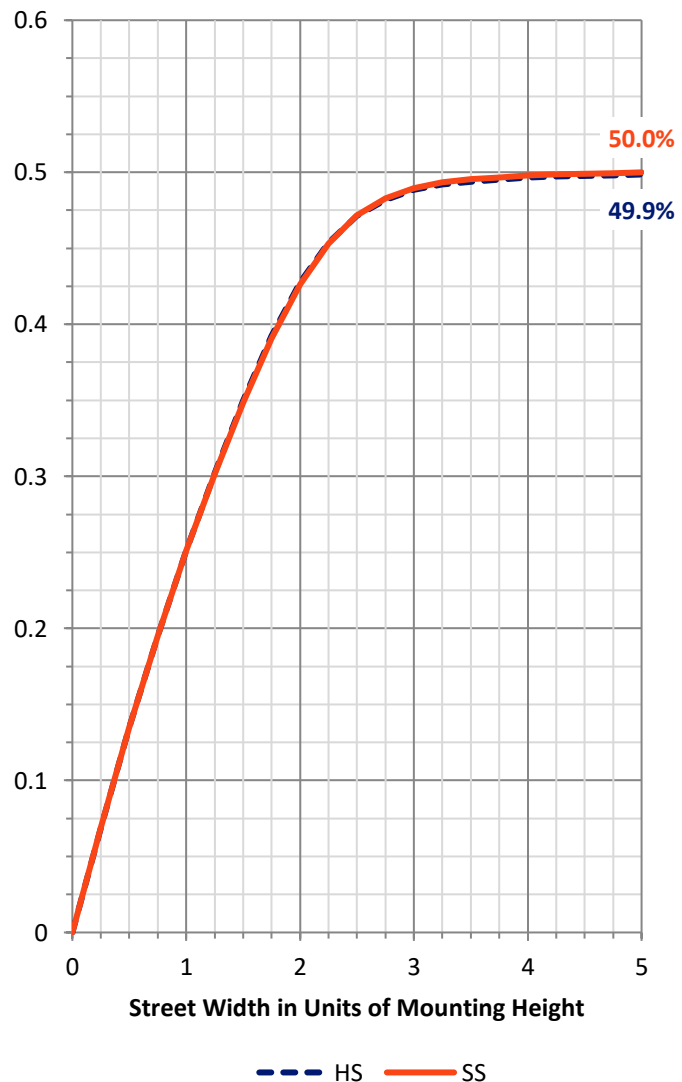
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20631.1	0.0	20631.1
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	20737.1	0.0	20737.1
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	41368.2	0.0	41368.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.6	1.0
10°-20°	1249.3	3.0
20°-30°	2124.4	5.1
30°-40°	3368.3	8.1
40°-50°	5492.4	13.3
50°-60°	9380.3	22.7
60°-70°	14267.3	34.5
70°-80°	4809.0	11.6
80°-90°	249.7	0.6
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°	41368.2	100.0
0°-180°	41368.2	100.0

**Coefficient of Utilization**

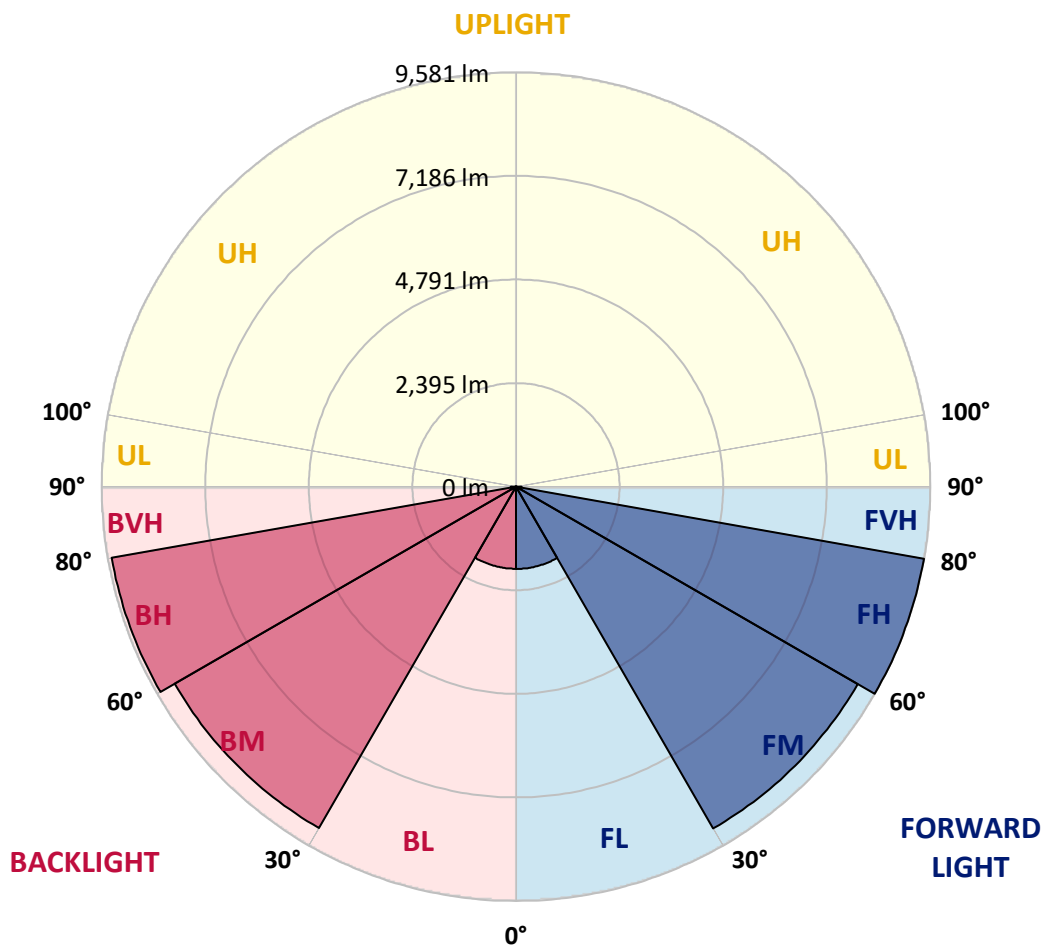


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1902.6	4.6			
FM (30°-60°)	9125.4	22.1			
FH (60°-80°)	9581.3	23.2			G4/12000
FVH (80°-90°)	127.7	0.3			G2/225
BL (0°-30°)	1898.7	4.6	B3/2500		
BM (30°-60°)	9115.6	22.0	B5		
BH (60°-80°)	9494.9	23.0	B5		G4/12000
BVH (80°-90°)	121.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4518.8	4518.8	4518.8	4518.8	4518.8	4518.8	4518.8	4518.8	4518.8	4518.8	4518.8
2.5°	4414.9	4466.8	4504.6	4499.9	4514.0	4528.2	4509.3	4537.6	4518.8	4551.8	4570.7
5°	4499.9	4485.7	4490.4	4462.1	4528.2	4452.7	4452.7	4490.4	4537.6	4481.0	4514.0
7.5°	4447.9	4438.5	4414.9	4457.4	4471.5	4471.5	4509.3	4438.5	4518.8	4537.6	4542.4
10°	4391.3	4339.3	4410.2	4452.7	4462.1	4386.5	4419.6	4438.5	4414.9	4438.5	4452.7
12.5°	4344.1	4372.4	4372.4	4372.4	4358.2	4410.2	4443.2	4438.5	4391.3	4433.8	4358.2
15°	4339.3	4325.2	4367.7	4405.4	4381.8	4391.3	4405.4	4447.9	4358.2	4377.1	4377.1
17.5°	4334.6	4353.5	4367.7	4362.9	4443.2	4443.2	4429.0	4400.7	4471.5	4433.8	4381.8
20°	4353.5	4339.3	4377.1	4391.3	4447.9	4561.3	4518.8	4495.1	4457.4	4410.2	4410.2
22.5°	4377.1	4367.7	4419.6	4481.0	4589.6	4617.9	4613.2	4584.9	4518.8	4462.1	4452.7
25°	4462.1	4377.1	4433.8	4551.8	4589.6	4646.2	4684.0	4646.2	4556.5	4570.7	4485.7
27.5°	4589.6	4575.4	4651.0	4731.2	4698.2	4750.1	4717.1	4745.4	4750.1	4679.3	4594.3
30°	4740.7	4698.2	4745.4	4901.2	4915.4	4972.0	4915.4	4839.8	4863.4	4802.1	4759.6
32.5°	4957.9	4943.7	5033.4	5137.3	5156.2	5127.9	5099.5	5142.0	5042.9	4995.7	4920.1
35°	5099.5	5160.9	5269.5	5349.8	5411.2	5382.8	5397.0	5354.5	5378.1	5279.0	5245.9
37.5°	5519.8	5496.2	5519.8	5656.7	5670.9	5656.7	5670.9	5718.1	5685.0	5600.0	5515.1
40°	5916.4	5878.6	5935.3	6091.1	6081.7	6128.9	6034.5	6086.4	6086.4	5925.9	5892.8
42.5°	6213.9	6341.4	6407.5	6535.0	6582.2	6539.7	6520.8	6530.2	6634.1	6445.2	6374.4
45°	6827.7	6823.0	7021.3	7092.1	6959.9	6950.5	6912.7	7026.0	7096.9	6988.3	6959.9
47.5°	7493.5	7526.5	7639.9	7668.2	7748.5	7602.1	7602.1	7616.3	7866.5	7611.5	7479.3
50°	8093.2	8135.7	8362.3	8584.2	8433.1	8277.3	8338.7	8414.2	8551.2	8310.4	8197.0
52.5°	8820.3	9051.7	9202.8	9320.8	9429.4	9320.8	9179.2	9264.2	9533.3	9212.2	9070.6
55°	9868.6	10052.7	10194.4	10411.6	10501.3	10354.9	10340.7	10331.3	10482.4	10142.4	9948.8
57.5°	11039.6	10964.0	11190.7	11525.9	11851.7	11710.1	11667.6	11677.0	11714.8	11233.1	11086.8
60°	12493.9	12578.9	12848.0	13140.8	13485.4	13683.8	13405.2	13244.6	13277.7	12621.4	12394.7
62.5°	13324.9	13513.8	14122.9	15128.6	15822.7	16441.3	16483.8	15440.3	14741.4	13466.6	12503.3
65°	12923.6	12895.2	14042.6	15903.0	18533.0	20332.0	20062.9	17532.0	15090.9	13065.2	11771.4
67.5°	10992.3	10916.8	12305.0	15256.1	19600.2	23528.7	23221.8	18122.2	13910.4	11559.0	10095.2
70°	7082.7	7063.8	8570.1	11629.8	17499.0	21602.2	21715.5	16460.2	11322.9	8466.2	7016.6
72.5°	2573.4	2729.2	3602.7	6251.7	11884.8	16526.3	16597.1	12187.0	6511.4	3914.4	2885.0
75°	949.1	977.4	1138.0	2030.4	5415.9	10147.1	10411.6	5911.7	2313.7	1274.9	1038.8
77.5°	547.7	552.4	609.1	755.5	1605.4	3961.6	4122.1	1794.3	897.1	679.9	628.0
80°	373.0	368.3	429.7	491.1	642.2	1123.8	1194.6	750.8	566.6	472.2	396.6
82.5°	217.2	231.4	316.4	349.4	391.9	495.8	505.2	467.5	425.0	349.4	259.7
85°	132.2	108.6	174.7	193.6	226.6	221.9	221.9	255.0	273.9	245.5	146.4
87.5°	33.1	33.1	42.5	47.2	61.4	47.2	51.9	99.2	132.2	122.8	75.5
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4518.8	4518.8	4518.8	4518.8	4518.8	4518.8	4518.8	4518.8	4518.8	4518.8	4518.8
2.5°	4528.2	4514.0	4523.5	4575.4	4542.4	4443.2	4466.8	4518.8	4476.3	4452.7	4447.9
5°	4509.3	4537.6	4504.6	4514.0	4547.1	4466.8	4481.0	4547.1	4518.8	4528.2	4476.3
7.5°	4514.0	4528.2	4499.9	4457.4	4457.4	4523.5	4485.7	4495.1	4452.7	4523.5	4429.0
10°	4485.7	4447.9	4414.9	4438.5	4429.0	4410.2	4396.0	4424.3	4381.8	4443.2	4377.1
12.5°	4400.7	4410.2	4400.7	4391.3	4410.2	4457.4	4381.8	4391.3	4325.2	4334.6	4367.7
15°	4367.7	4396.0	4386.5	4438.5	4462.1	4391.3	4447.9	4391.3	4339.3	4311.0	4362.9
17.5°	4381.8	4424.3	4410.2	4447.9	4405.4	4457.4	4466.8	4443.2	4381.8	4358.2	4381.8
20°	4396.0	4381.8	4400.7	4466.8	4528.2	4476.3	4476.3	4462.1	4405.4	4372.4	4372.4
22.5°	4429.0	4405.4	4433.8	4485.7	4504.6	4584.9	4514.0	4481.0	4386.5	4301.6	4381.8
25°	4495.1	4509.3	4528.2	4509.3	4613.2	4603.7	4594.3	4570.7	4424.3	4429.0	4414.9
27.5°	4622.6	4542.4	4566.0	4679.3	4693.5	4731.2	4684.0	4726.5	4570.7	4575.4	4481.0
30°	4778.5	4693.5	4769.0	4868.2	4863.4	4934.3	4910.7	4920.1	4811.5	4750.1	4622.6
32.5°	4948.4	4939.0	4986.2	5047.6	5071.2	5109.0	5104.3	5104.3	5038.2	4877.6	4901.2
35°	5137.3	5203.4	5260.1	5326.2	5335.6	5382.8	5316.7	5326.2	5260.1	5142.0	5179.8
37.5°	5510.3	5505.6	5567.0	5647.3	5656.7	5618.9	5670.9	5647.3	5557.6	5477.3	5415.9
40°	5944.7	5850.3	5907.0	6095.8	6110.0	6043.9	6039.2	6034.5	5968.3	5793.6	5755.9
42.5°	6322.5	6445.2	6435.8	6497.2	6454.7	6421.6	6539.7	6473.6	6421.6	6237.5	6204.4
45°	6808.8	6846.6	6969.4	7167.7	6964.6	6964.6	7044.9	6993.0	6964.6	6827.7	6700.2
47.5°	7413.2	7446.3	7691.8	7706.0	7573.8	7484.0	7734.3	7743.7	7625.7	7521.8	7366.0
50°	8121.5	8135.7	8357.6	8584.2	8437.8	8267.9	8522.8	8622.0	8357.6	8215.9	8022.3
52.5°	8900.6	8858.1	9042.2	9467.2	9325.5	9273.6	9547.5	9571.1	9212.2	8990.3	9042.2
55°	9797.7	9741.1	10241.6	10529.6	10439.9	10345.5	10468.2	10524.9	10236.9	9873.3	10000.8
57.5°	10959.3	10987.6	11237.9	11521.2	11667.6	11691.2	11747.8	11691.2	11398.4	11030.1	10912.1
60°	12120.8	12205.8	12692.2	13225.7	13273.0	13688.5	13612.9	13329.6	12914.1	12390.0	12413.6
62.5°	12550.5	12479.7	13263.5	14566.7	15676.4	16436.6	16101.3	15095.6	14132.3	13178.5	13249.4
65°	11686.4	11861.1	12928.3	14968.1	17376.2	20384.0	18599.1	15818.0	13872.6	12640.2	12503.3
67.5°	10071.6	10203.8	11559.0	13712.1	17985.3	22811.0	19543.5	14798.1	12234.2	10638.2	10723.2
70°	7016.6	7082.7	8409.5	11233.1	16309.1	21526.7	17631.2	11365.4	8447.3	6733.3	6827.7
72.5°	2823.6	2984.2	3857.7	6766.3	12040.6	16356.3	11870.6	5963.6	3503.6	2606.4	2365.6
75°	1043.5	1048.2	1232.4	2327.8	5718.1	10279.3	5354.5	1917.0	1119.1	916.0	873.5
77.5°	604.4	599.7	642.2	840.5	1657.3	4013.5	1520.4	750.8	609.1	547.7	524.1
80°	377.7	373.0	439.1	557.2	727.2	1100.2	642.2	467.5	410.8	354.1	354.1
82.5°	240.8	245.5	344.7	410.8	443.8	486.3	373.0	330.5	306.9	203.0	198.3
85°	155.8	141.7	240.8	273.9	245.5	217.2	207.8	174.7	160.5	99.2	108.6
87.5°	70.8	75.5	122.8	136.9	89.7	51.9	51.9	37.8	37.8	23.6	23.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)