

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: P479420

Luminaire Tested: **IFLD-S-SA6B-760-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479420  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-760-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ  
distribution lens  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

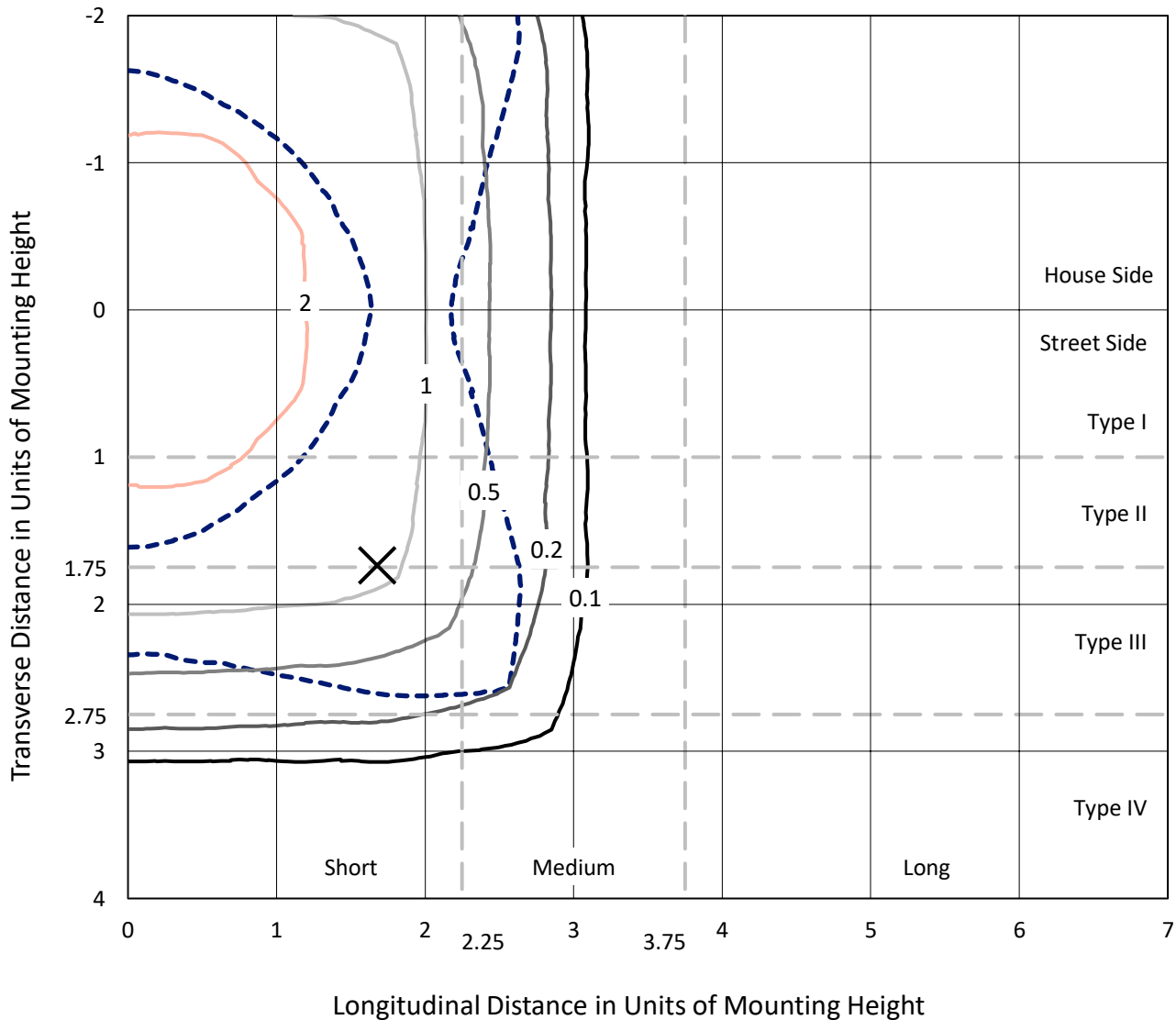
Lumens per Lamp: N/A  
Luminaire Lumens: 34465.3 lumens  
Efficiency: N/A  
Efficacy: 140.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 244.9  
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

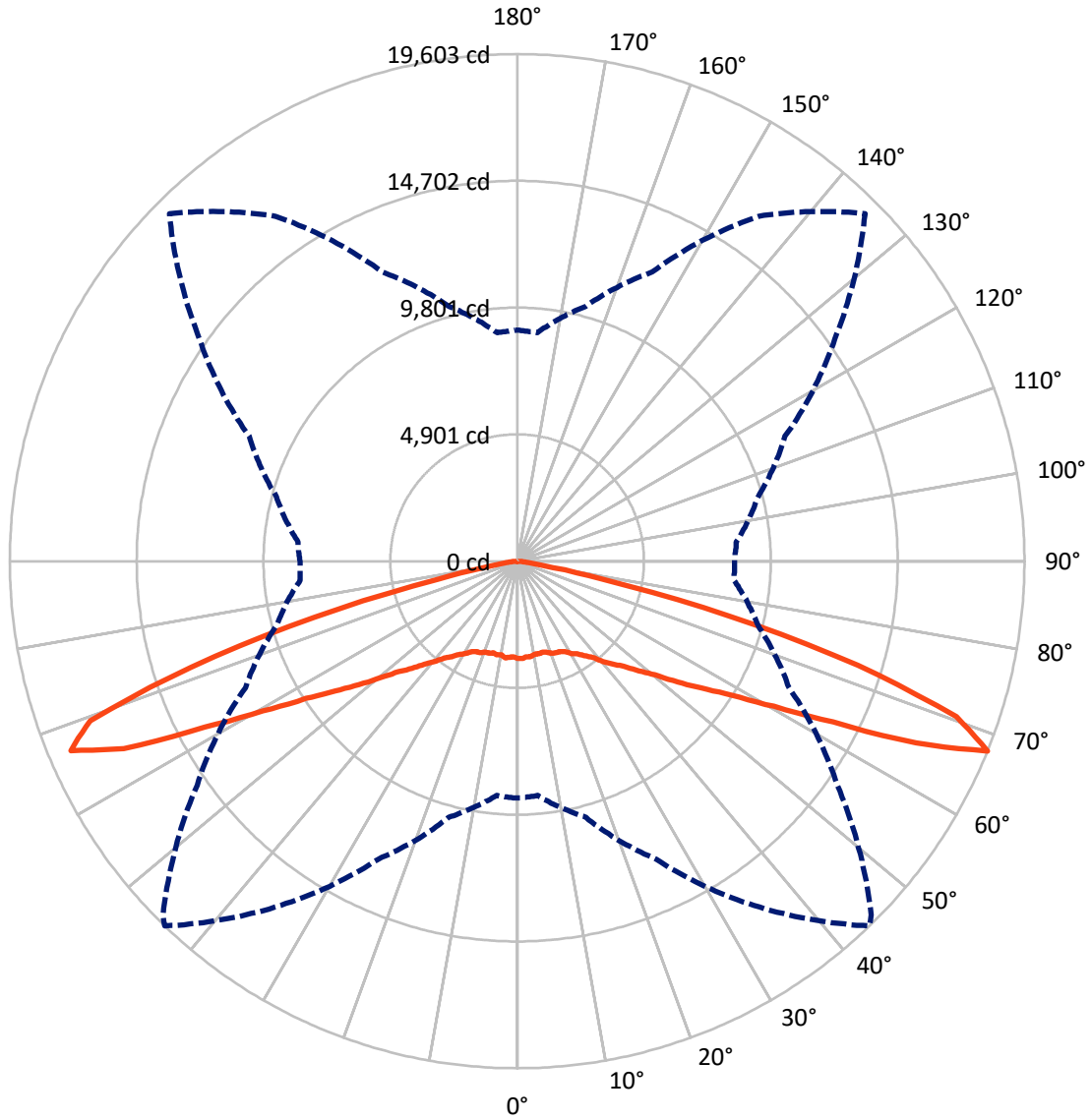
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 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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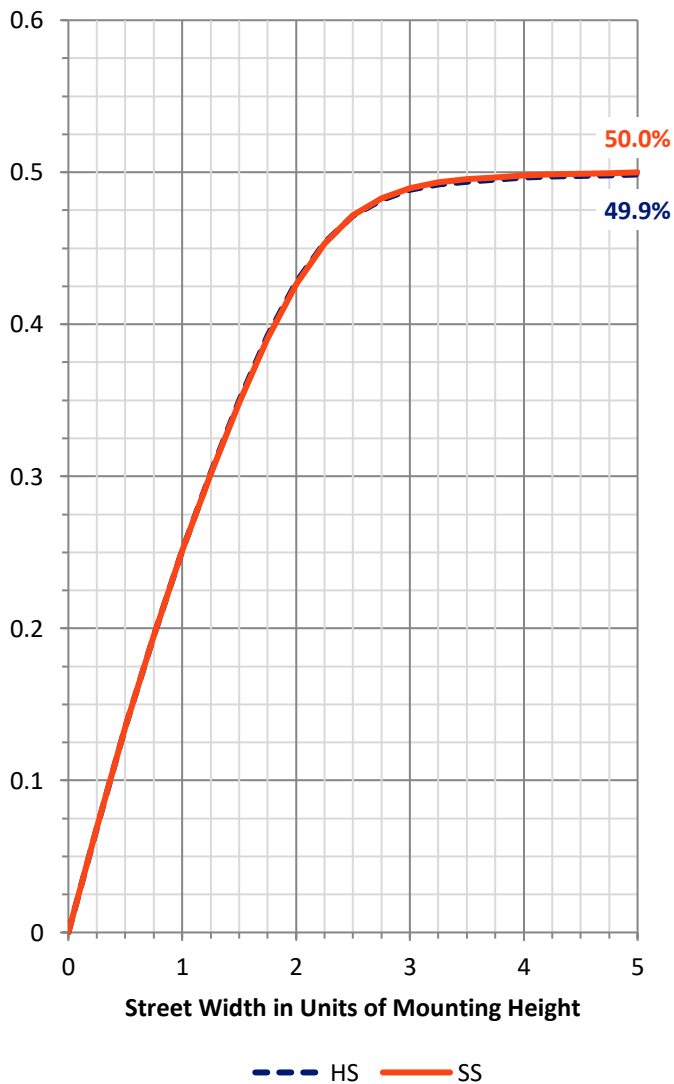
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17188.5	0.0	17188.5
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	17276.8	0.0	17276.8
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	34465.3	0.0	34465.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.3	1.0
10°-20°	1040.8	3.0
20°-30°	1769.9	5.1
30°-40°	2806.3	8.1
40°-50°	4575.9	13.3
50°-60°	7815.0	22.7
60°-70°	11886.6	34.5
70°-80°	4006.5	11.6
80°-90°	208.0	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°	34465.3	100.0
0°-180°	34465.3	100.0

**Coefficient of Utilization**



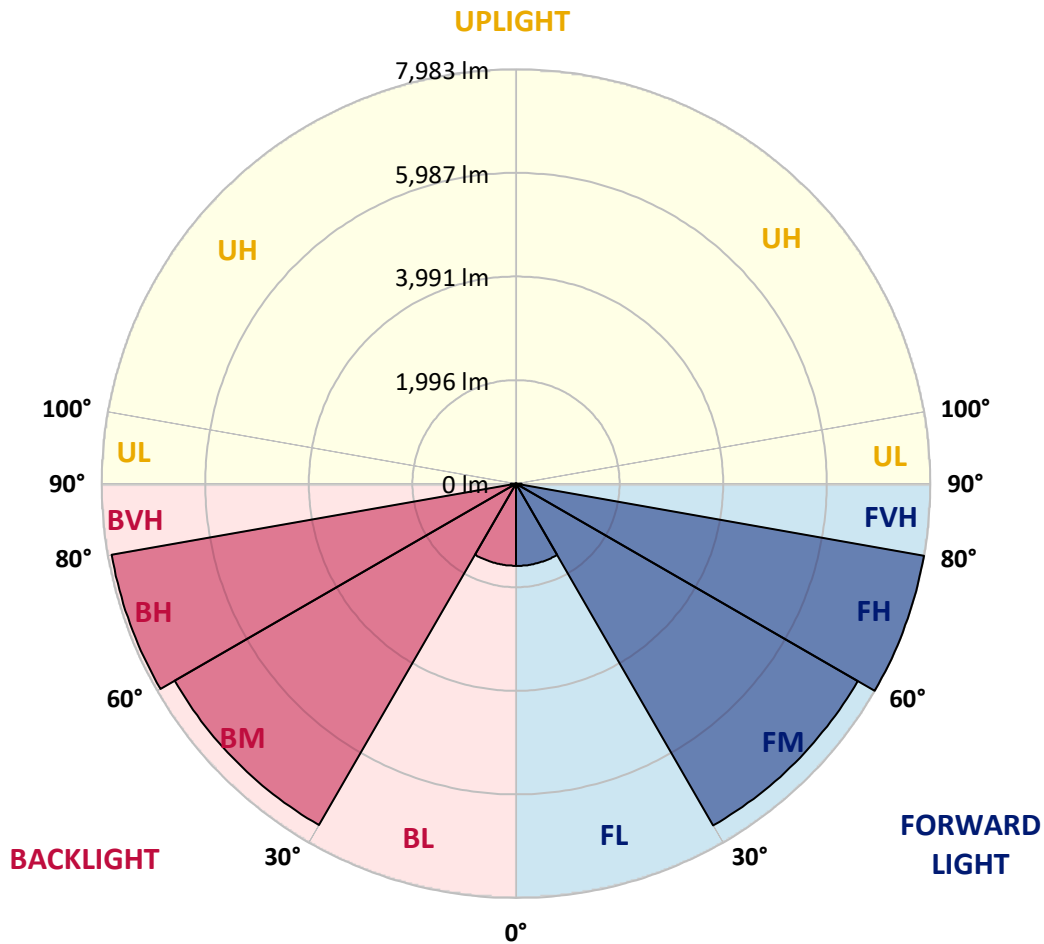
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1585.1	4.6			
FM (30°-60°)	7602.7	22.1			
FH (60°-80°)	7982.5	23.2			G4/12000
FVH (80°-90°)	106.4	0.3			G2/225
BL (0°-30°)	1581.9	4.6	B3/2500		
BM (30°-60°)	7594.5	22.0	B4/8500		
BH (60°-80°)	7910.5	23.0	B5		G4/12000
BVH (80°-90°)	101.6	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°	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7
2.5°	3678.2	3721.5	3752.9	3749.0	3760.8	3772.6	3756.9	3780.5	3764.7	3792.3	3808.0
5°	3749.0	3737.2	3741.1	3717.5	3772.6	3709.7	3709.7	3741.1	3780.5	3733.3	3760.8
7.5°	3705.7	3697.9	3678.2	3713.6	3725.4	3725.4	3756.9	3697.9	3764.7	3780.5	3784.4
10°	3658.5	3615.3	3674.3	3709.7	3717.5	3654.6	3682.1	3697.9	3678.2	3697.9	3709.7
12.5°	3619.2	3642.8	3642.8	3642.8	3631.0	3674.3	3701.8	3697.9	3658.5	3693.9	3631.0
15°	3615.3	3603.5	3638.9	3670.3	3650.7	3658.5	3670.3	3705.7	3631.0	3646.7	3646.7
17.5°	3611.3	3627.1	3638.9	3634.9	3701.8	3701.8	3690.0	3666.4	3725.4	3693.9	3650.7
20°	3627.1	3615.3	3646.7	3658.5	3705.7	3800.1	3764.7	3745.1	3713.6	3674.3	3674.3
22.5°	3646.7	3638.9	3682.1	3733.3	3823.8	3847.4	3843.4	3819.8	3764.7	3717.5	3709.7
25°	3717.5	3646.7	3693.9	3792.3	3823.8	3871.0	3902.4	3871.0	3796.2	3808.0	3737.2
27.5°	3823.8	3811.9	3874.9	3941.8	3914.2	3957.5	3930.0	3953.6	3957.5	3898.5	3827.7
30°	3949.6	3914.2	3953.6	4083.4	4095.2	4142.4	4095.2	4032.2	4051.9	4000.8	3965.4
32.5°	4130.6	4118.8	4193.5	4280.1	4295.8	4272.2	4248.6	4284.0	4201.4	4162.1	4099.1
35°	4248.6	4299.8	4390.2	4457.1	4508.2	4484.6	4496.4	4461.0	4480.7	4398.1	4370.6
37.5°	4598.7	4579.1	4598.7	4712.8	4724.6	4712.8	4724.6	4764.0	4736.4	4665.6	4594.8
40°	4929.2	4897.7	4944.9	5074.7	5066.9	5106.2	5027.5	5070.8	5070.8	4937.0	4909.5
42.5°	5177.0	5283.2	5338.3	5444.5	5483.9	5448.5	5432.7	5440.6	5527.1	5369.8	5310.8
45°	5688.4	5684.5	5849.7	5908.7	5798.6	5790.7	5759.2	5853.6	5912.7	5822.2	5798.6
47.5°	6243.1	6270.6	6365.0	6388.7	6455.5	6333.6	6333.6	6345.4	6553.9	6341.4	6231.3
50°	6742.7	6778.1	6966.9	7151.8	7025.9	6896.1	6947.3	7010.2	7124.3	6923.7	6829.2
52.5°	7348.5	7541.3	7667.2	7765.5	7856.0	7765.5	7647.5	7718.3	7942.5	7675.0	7557.0
55°	8221.9	8375.3	8493.3	8674.2	8749.0	8627.0	8615.2	8607.4	8733.3	8450.0	8288.7
57.5°	9197.5	9134.5	9323.3	9602.6	9874.1	9756.1	9720.7	9728.5	9760.0	9358.7	9236.8
60°	10409.1	10479.9	10704.1	10948.0	11235.2	11400.4	11168.3	11034.6	11062.1	10515.3	10326.5
62.5°	11101.5	11258.8	11766.3	12604.2	13182.5	13697.8	13733.2	12863.9	12281.6	11219.5	10417.0
65°	10767.1	10743.5	11699.4	13249.4	15440.6	16939.4	16715.1	14606.6	12572.7	10885.1	9807.2
67.5°	9158.1	9095.2	10251.7	12710.4	16329.6	19602.6	19346.9	15098.3	11589.3	9630.2	8410.7
70°	5900.8	5885.1	7140.0	9689.2	14579.0	17997.6	18092.0	13713.6	9433.5	7053.5	5845.8
72.5°	2144.0	2273.8	3001.6	5208.5	9901.6	13768.6	13827.7	10153.4	5424.8	3261.2	2403.6
75°	790.7	814.3	948.1	1691.6	4512.2	8454.0	8674.2	4925.2	1927.6	1062.2	865.5
77.5°	456.3	460.3	507.5	629.4	1337.5	3300.5	3434.3	1494.9	747.4	566.5	523.2
80°	310.8	306.8	358.0	409.1	535.0	936.3	995.3	625.5	472.1	393.4	330.4
82.5°	181.0	192.8	263.6	291.1	326.5	413.1	420.9	389.5	354.1	291.1	216.4
85°	110.1	90.5	145.6	161.3	188.8	184.9	184.9	212.4	228.2	204.6	122.0
87.5°	27.5	27.5	35.4	39.3	51.1	39.3	43.3	82.6	110.1	102.3	62.9
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°	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7	3764.7
2.5°	3772.6	3760.8	3768.7	3811.9	3784.4	3701.8	3721.5	3764.7	3729.3	3709.7	3705.7
5°	3756.9	3780.5	3752.9	3760.8	3788.3	3721.5	3733.3	3788.3	3764.7	3772.6	3729.3
7.5°	3760.8	3772.6	3749.0	3713.6	3713.6	3768.7	3737.2	3745.1	3709.7	3768.7	3690.0
10°	3737.2	3705.7	3678.2	3697.9	3690.0	3674.3	3662.5	3686.1	3650.7	3701.8	3646.7
12.5°	3666.4	3674.3	3666.4	3658.5	3674.3	3713.6	3650.7	3658.5	3603.5	3611.3	3638.9
15°	3638.9	3662.5	3654.6	3697.9	3717.5	3658.5	3705.7	3658.5	3615.3	3591.7	3634.9
17.5°	3650.7	3686.1	3674.3	3705.7	3670.3	3713.6	3721.5	3701.8	3650.7	3631.0	3650.7
20°	3662.5	3650.7	3666.4	3721.5	3772.6	3729.3	3729.3	3717.5	3670.3	3642.8	3642.8
22.5°	3690.0	3670.3	3693.9	3737.2	3752.9	3819.8	3760.8	3733.3	3654.6	3583.8	3650.7
25°	3745.1	3756.9	3772.6	3756.9	3843.4	3835.6	3827.7	3808.0	3686.1	3690.0	3678.2
27.5°	3851.3	3784.4	3804.1	3898.5	3910.3	3941.8	3902.4	3937.8	3808.0	3811.9	3733.3
30°	3981.1	3910.3	3973.2	4055.9	4051.9	4110.9	4091.3	4099.1	4008.6	3957.5	3851.3
32.5°	4122.7	4114.9	4154.2	4205.3	4225.0	4256.5	4252.5	4252.5	4197.5	4063.7	4083.4
35°	4280.1	4335.2	4382.4	4437.4	4445.3	4484.6	4429.6	4437.4	4382.4	4284.0	4315.5
37.5°	4590.9	4586.9	4638.1	4704.9	4712.8	4681.3	4724.6	4704.9	4630.2	4563.3	4512.2
40°	4952.8	4874.1	4921.3	5078.7	5090.5	5035.4	5031.5	5027.5	4972.4	4826.9	4795.4
42.5°	5267.5	5369.8	5361.9	5413.0	5377.6	5350.1	5448.5	5393.4	5350.1	5196.7	5169.1
45°	5672.7	5704.2	5806.4	5971.7	5802.5	5802.5	5869.4	5826.1	5802.5	5688.4	5582.2
47.5°	6176.2	6203.8	6408.3	6420.1	6310.0	6235.2	6443.7	6451.6	6353.2	6266.7	6136.9
50°	6766.3	6778.1	6963.0	7151.8	7029.9	6888.3	7100.7	7183.3	6963.0	6845.0	6683.7
52.5°	7415.4	7380.0	7533.4	7887.5	7769.5	7726.2	7954.3	7974.0	7675.0	7490.1	7533.4
55°	8162.8	8115.6	8532.6	8772.6	8697.9	8619.2	8721.5	8768.7	8528.7	8225.8	8332.0
57.5°	9130.6	9154.2	9362.7	9598.7	9720.7	9740.3	9787.5	9740.3	9496.4	9189.6	9091.2
60°	10098.3	10169.1	10574.3	11018.9	11058.2	11404.4	11341.4	11105.4	10759.2	10322.6	10342.2
62.5°	10456.3	10397.3	11050.3	12136.1	13060.5	13693.9	13414.6	12576.7	11774.2	10979.5	11038.5
65°	9736.4	9882.0	10771.0	12470.5	14476.8	16982.6	15495.6	13178.6	11557.8	10531.0	10417.0
67.5°	8391.0	8501.2	9630.2	11424.0	14984.2	19004.7	16282.4	12328.8	10192.7	8863.1	8933.9
70°	5845.8	5900.8	7006.3	9358.7	13587.7	17934.6	14689.2	9468.9	7037.7	5609.7	5688.4
72.5°	2352.5	2486.2	3214.0	5637.3	10031.4	13627.0	9889.8	4968.5	2919.0	2171.5	1970.9
75°	869.4	873.3	1026.7	1939.4	4764.0	8564.1	4461.0	1597.2	932.3	763.2	727.8
77.5°	503.5	499.6	535.0	700.2	1380.8	3343.8	1266.7	625.5	507.5	456.3	436.7
80°	314.7	310.8	365.9	464.2	605.8	916.6	535.0	389.5	342.2	295.0	295.0
82.5°	200.6	204.6	287.2	342.2	369.8	405.2	310.8	275.4	255.7	169.2	165.2
85°	129.8	118.0	200.6	228.2	204.6	181.0	173.1	145.6	133.8	82.6	90.5
87.5°	59.0	62.9	102.3	114.1	74.7	43.3	43.3	31.5	31.5	19.7	19.7
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)