

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: P478961

Luminaire Tested: **IFLD-L-SA7A-740-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478961  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-740-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

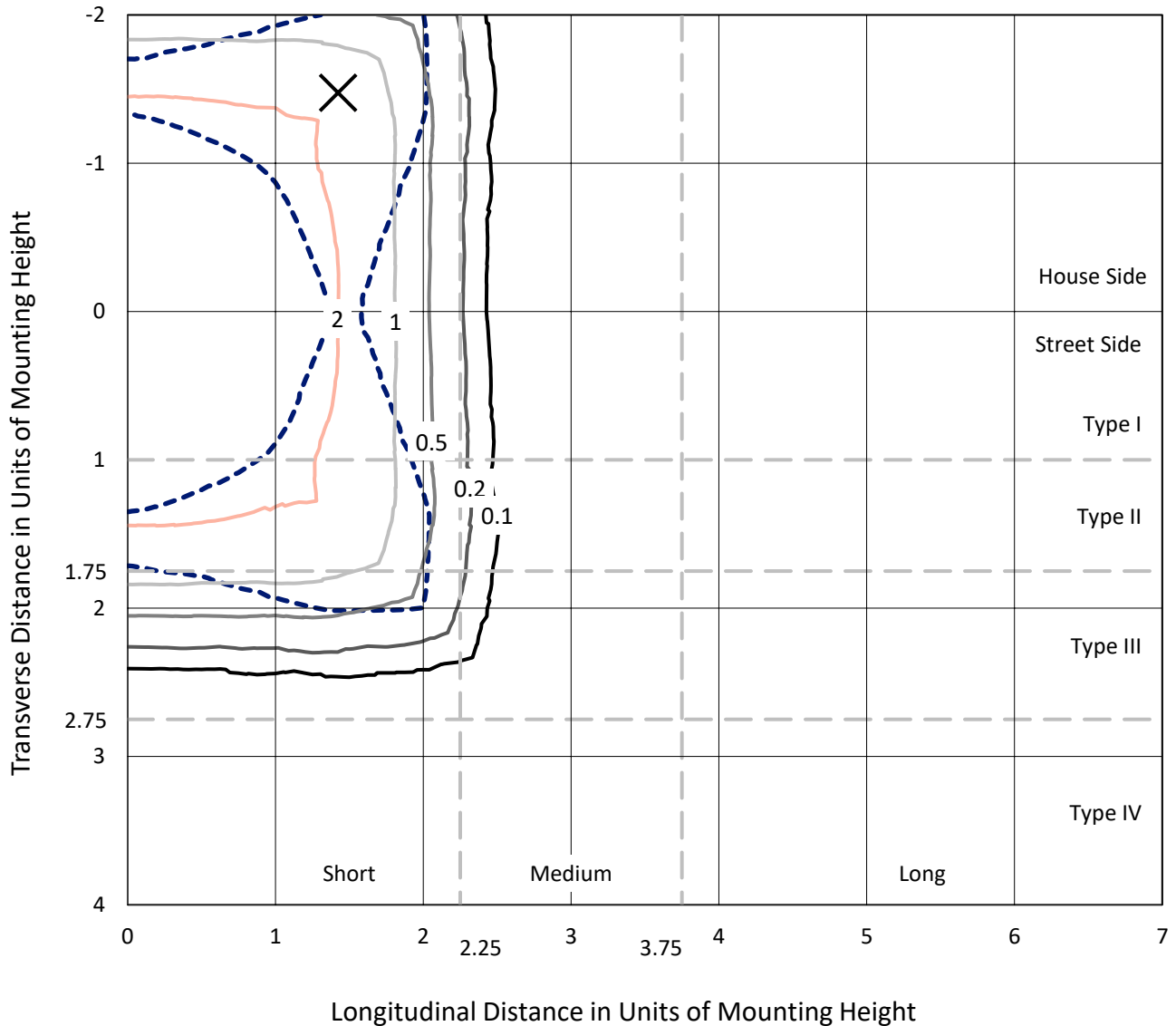
Lumens per Lamp: N/A  
Luminaire Lumens: 31218.3 lumens  
Efficiency: N/A  
Efficacy: 143.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

Input Watts (W): 217.6  
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

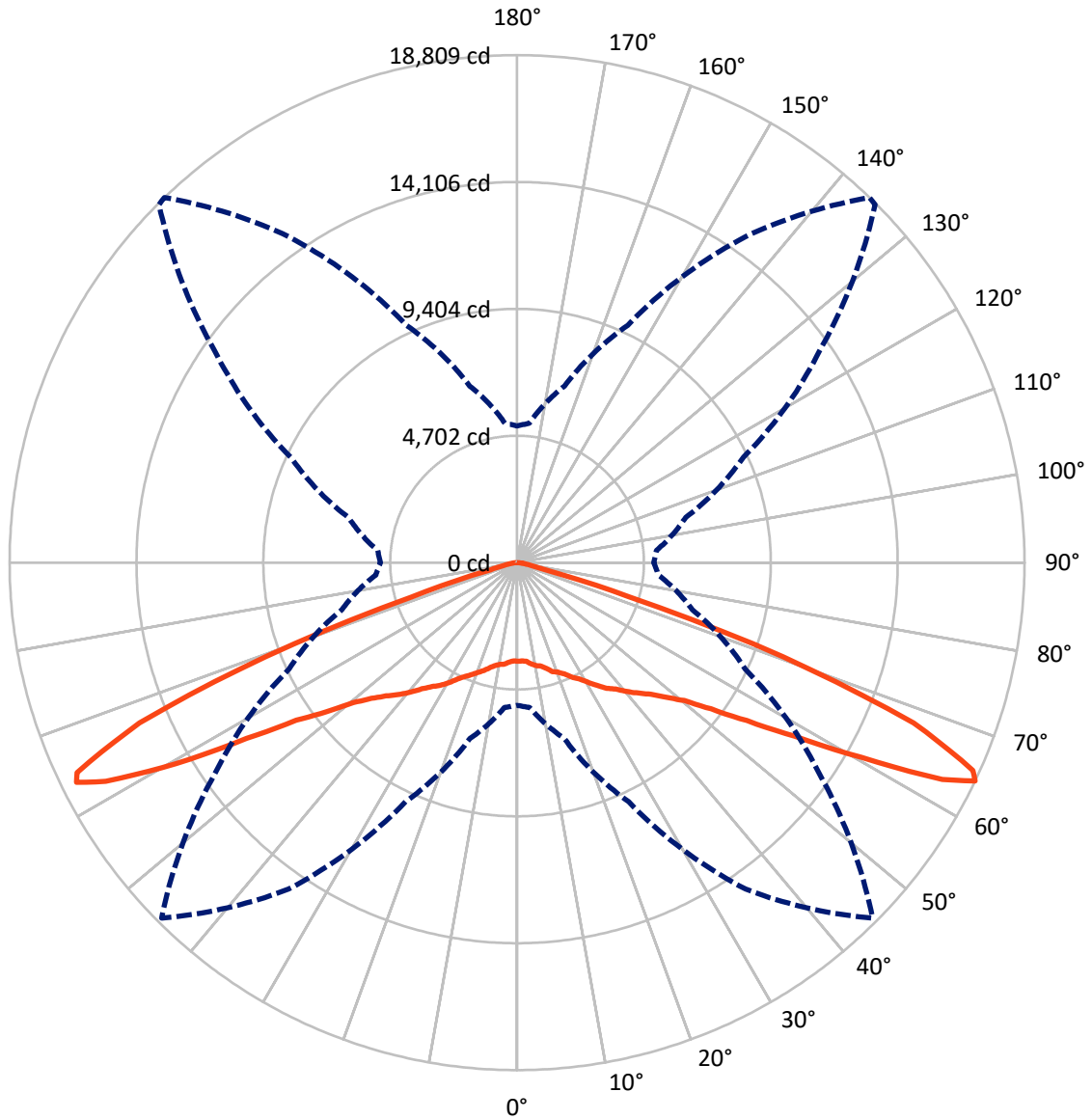
× Max cd  
 - - - 1/2 Max cd



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 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15624.0	0.0	15624.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15594.3	0.0	15594.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31218.3	0.0	31218.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.1	1.2
10°-20°	1157.5	3.7
20°-30°	2175.4	7.0
30°-40°	3587.6	11.5
40°-50°	5610.8	18.0
50°-60°	9065.6	29.0
60°-70°	8163.0	26.1
70°-80°	967.0	3.1
80°-90°	132.4	0.4
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°	31218.3	100.0
0°-180°	31218.3	100.0

**Coefficient of Utilization**



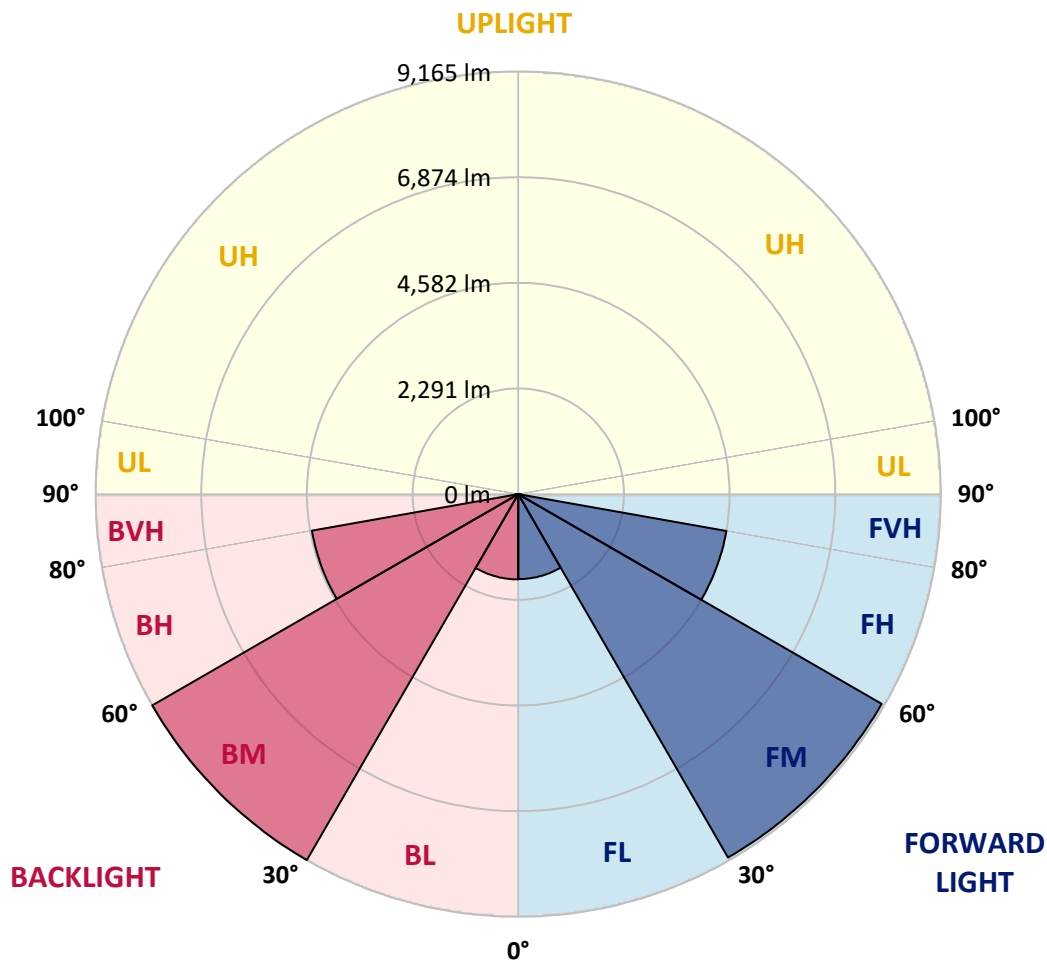
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1842.5	5.9			
FM (30°-60°)	9099.2	29.1			
FH (60°-80°)	4584.8	14.7			G2/5000
FVH (80°-90°)	67.9	0.2			G1/100
BL (0°-30°)	1849.6	5.9	B3/2500		
BM (30°-60°)	9164.8	29.4	B5		
BH (60°-80°)	4545.2	14.6	B4/5000		G2/5000
BVH (80°-90°)	64.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3655.0	3655.0	3655.0	3655.0	3655.0	3655.0	3655.0	3655.0	3655.0	3655.0	3655.0
2.5°	3612.1	3619.2	3683.7	3658.6	3680.1	3640.7	3669.3	3730.2	3658.6	3712.3	3730.2
5°	3651.4	3662.2	3662.2	3687.2	3701.6	3694.4	3712.3	3687.2	3755.3	3726.6	3769.6
7.5°	3794.6	3776.7	3748.1	3769.6	3773.2	3791.1	3809.0	3841.2	3830.4	3805.4	3848.3
10°	3819.7	3805.4	3848.3	3851.9	3834.0	3819.7	3837.6	3837.6	3869.8	3877.0	3877.0
12.5°	3862.7	3877.0	3873.4	3902.0	3905.6	3894.9	3923.5	3977.2	3962.9	3973.6	3948.6
15°	4027.3	4009.4	4005.8	4034.5	4081.0	4013.0	4063.1	4059.5	4045.2	4066.7	4009.4
17.5°	4170.5	4113.2	4138.3	4184.8	4166.9	4181.3	4245.7	4188.4	4202.7	4177.7	4159.8
20°	4295.8	4249.3	4252.9	4270.8	4270.8	4313.7	4338.8	4317.3	4303.0	4299.4	4306.6
22.5°	4435.4	4381.7	4385.3	4460.5	4485.5	4471.2	4453.3	4489.1	4496.3	4467.6	4499.9
25°	4539.2	4596.5	4614.4	4650.2	4596.5	4635.9	4621.6	4689.6	4732.6	4675.3	4714.7
27.5°	4811.3	4786.3	4832.8	4829.2	4872.2	4832.8	4857.9	4879.3	4897.2	4900.8	4882.9
30°	5054.7	5065.5	5018.9	5144.2	5044.0	5108.4	5151.4	5162.1	5183.6	5183.6	5129.9
32.5°	5312.5	5291.0	5366.2	5337.5	5319.7	5369.8	5323.2	5470.0	5384.1	5434.2	5373.3
35°	5602.5	5602.5	5631.1	5709.9	5602.5	5570.2	5656.2	5717.0	5717.0	5627.5	5649.0
37.5°	5928.2	5899.6	5935.4	6035.6	5953.3	5845.9	6003.4	6028.5	6010.6	5985.5	5942.5
40°	6157.3	6150.2	6221.8	6354.2	6236.1	6214.6	6243.3	6311.3	6332.7	6357.8	6300.5
42.5°	6544.0	6576.2	6783.8	6751.6	6654.9	6579.8	6572.6	6826.8	6765.9	6701.5	6669.3
45°	7116.7	7088.1	7195.5	7199.1	7073.8	6909.1	6944.9	7177.6	7281.4	7138.2	7191.9
47.5°	7571.4	7585.7	7660.9	7814.8	7524.8	7353.0	7485.5	7861.3	7829.1	7775.4	7825.5
50°	8179.9	8244.4	8480.7	8427.0	8169.2	7958.0	8248.0	8602.4	8641.7	8444.9	8409.1
52.5°	9021.2	9121.4	9250.3	9293.3	9046.3	8971.1	8989.0	9429.3	9332.7	9142.9	9021.2
55°	9758.7	9805.2	10041.5	10395.9	10378.0	10016.4	10224.0	10388.7	9994.9	9604.7	9636.9
57.5°	10073.7	10095.2	10753.9	11462.7	11885.1	11967.4	11731.2	11176.3	10238.4	9486.6	9440.1
60°	9289.7	9493.7	10288.5	11888.7	13818.2	14770.4	13198.9	11265.8	9669.2	8756.3	8688.3
62.5°	7424.6	7435.3	8616.7	11043.8	15021.0	17516.2	13760.9	10424.5	8151.3	7116.7	6844.7
64°	5287.4	5387.7	6744.4	9776.6	14770.4	18633.1	13692.9	9325.5	6719.4	5251.6	5061.9
65°	3794.6	3934.2	5244.5	8487.8	14183.3	18500.6	13488.9	8380.4	5434.2	4009.4	3816.1
67.5°	1396.1	1453.4	2058.4	4245.7	10184.7	15765.6	10689.4	4607.3	2387.8	1700.4	1528.6
70°	648.0	651.5	762.5	1403.3	4453.3	10542.6	5101.3	1729.1	898.5	712.4	662.3
72.5°	476.1	486.9	533.4	648.0	1310.2	4464.1	1675.4	708.8	526.2	465.4	454.6
75°	386.6	393.8	408.1	469.0	605.0	1195.7	680.2	490.4	418.8	375.9	361.6
77.5°	297.1	297.1	329.3	358.0	400.9	558.5	451.1	390.2	340.1	297.1	286.4
80°	214.8	218.4	257.7	279.2	272.1	368.7	325.8	322.2	279.2	232.7	214.8
82.5°	125.3	136.0	186.2	200.5	193.3	218.4	236.3	250.6	218.4	161.1	146.8
85°	71.6	75.2	107.4	111.0	111.0	103.8	136.0	150.4	146.8	100.2	89.5
87.5°	21.5	21.5	28.6	28.6	32.2	35.8	53.7	64.4	71.6	50.1	46.5
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):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	3655.0	3655.0	3655.0	3655.0	3655.0	3655.0	3655.0	3655.0	3655.0	3655.0	3655.0
2.5°	3712.3	3658.6	3662.2	3676.5	3630.0	3647.9	3701.6	3662.2	3651.4	3630.0	3619.2
5°	3694.4	3751.7	3730.2	3737.4	3726.6	3676.5	3669.3	3701.6	3719.5	3687.2	3751.7
7.5°	3819.7	3794.6	3766.0	3776.7	3751.7	3794.6	3823.3	3758.8	3791.1	3773.2	3737.4
10°	3891.3	3844.8	3866.2	3859.1	3841.2	3884.1	3855.5	3848.3	3819.7	3780.3	3837.6
12.5°	3916.4	3970.0	4005.8	3945.0	3955.7	3934.2	3916.4	3916.4	3884.1	3873.4	3884.1
15°	4027.3	4073.9	4059.5	4106.1	4045.2	4066.7	4088.2	4034.5	4063.1	3984.4	4045.2
17.5°	4231.4	4192.0	4242.1	4181.3	4202.7	4245.7	4177.7	4177.7	4199.2	4156.2	4102.5
20°	4360.3	4342.4	4324.5	4328.0	4292.2	4331.6	4310.1	4299.4	4267.2	4281.5	4310.1
22.5°	4482.0	4456.9	4464.1	4474.8	4499.9	4482.0	4471.2	4482.0	4403.2	4474.8	4374.6
25°	4632.3	4700.3	4678.9	4725.4	4653.8	4700.3	4696.8	4628.7	4671.7	4643.1	4621.6
27.5°	4882.9	4847.1	4879.3	4822.1	4872.2	4875.7	4832.8	4947.3	4897.2	4890.1	4875.7
30°	5205.1	5180.0	5158.6	5126.3	5165.7	5133.5	5169.3	5180.0	5133.5	5097.7	5029.7
32.5°	5387.7	5455.7	5480.7	5402.0	5405.6	5423.5	5391.2	5359.0	5387.7	5398.4	5387.7
35°	5645.4	5709.9	5724.2	5663.3	5631.1	5720.6	5656.2	5763.6	5670.5	5674.1	5577.4
37.5°	5946.1	5964.0	6085.7	6017.7	5989.1	5946.1	6064.3	6049.9	6071.4	5899.6	5985.5
40°	6286.2	6350.6	6418.7	6246.8	6243.3	6282.6	6275.5	6357.8	6318.4	6293.4	6232.5
42.5°	6658.5	6794.5	6805.3	6690.7	6619.1	6612.0	6647.8	6830.3	6833.9	6669.3	6597.7
45°	7152.5	7302.9	7263.5	7041.6	6962.8	6952.1	7127.5	7206.2	7274.2	7209.8	7149.0
47.5°	7768.3	7868.5	7839.9	7635.8	7381.6	7453.2	7625.1	7872.1	7800.5	7714.6	7643.0
50°	8427.0	8545.1	8484.2	8280.2	8036.8	8036.8	8248.0	8563.0	8541.5	8373.3	8308.8
52.5°	9157.2	9329.1	9468.7	9178.7	8974.7	9006.9	9339.8	9454.4	9400.7	9282.5	9228.8
55°	9701.4	10030.7	10317.1	10331.4	10342.2	10338.6	10424.5	10539.1	10156.0	9966.3	9773.0
57.5°	9568.9	10191.8	11172.7	11838.5	12035.4	12139.3	12110.6	11580.8	10675.1	10052.2	10116.6
60°	8623.8	9640.5	11222.8	13360.0	14791.9	14648.7	14126.1	12031.9	10388.7	9336.2	9203.8
62.5°	6880.5	8104.8	10381.6	13789.6	17734.6	17691.6	14956.6	10990.1	8656.1	7324.4	7242.0
64°	5183.6	6472.4	9261.1	13678.6	18765.5	18808.5	14745.4	9708.5	6773.1	5183.6	5058.3
65°	3966.5	5162.1	8162.0	13449.5	18543.6	18568.7	14158.3	8384.0	5147.8	3680.1	3544.0
67.5°	1578.7	2198.0	4428.3	10199.0	15923.2	15855.1	10102.3	4056.0	1968.9	1281.6	1256.5
70°	673.0	837.7	1553.7	4832.8	10660.8	10463.9	4349.5	1317.4	730.3	612.2	608.6
72.5°	461.8	511.9	665.9	1492.8	4431.8	4328.0	1238.6	612.2	497.6	458.2	458.2
75°	372.3	408.1	483.3	626.5	1174.2	1131.2	583.5	451.1	397.4	368.7	365.1
77.5°	290.0	325.8	379.5	433.2	537.0	533.4	390.2	340.1	307.9	286.4	279.2
80°	229.1	264.9	300.7	307.9	350.8	343.7	264.9	268.5	250.6	207.6	204.1
82.5°	157.5	214.8	239.8	218.4	207.6	207.6	189.7	189.7	175.4	128.9	118.1
85°	96.7	143.2	150.4	128.9	96.7	96.7	103.8	100.2	93.1	68.0	64.4
87.5°	50.1	68.0	60.9	50.1	32.2	32.2	28.6	21.5	21.5	17.9	17.9
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)