

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: P479429

Luminaire Tested: **IFLD-L-SA7A-760-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479429
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-760-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

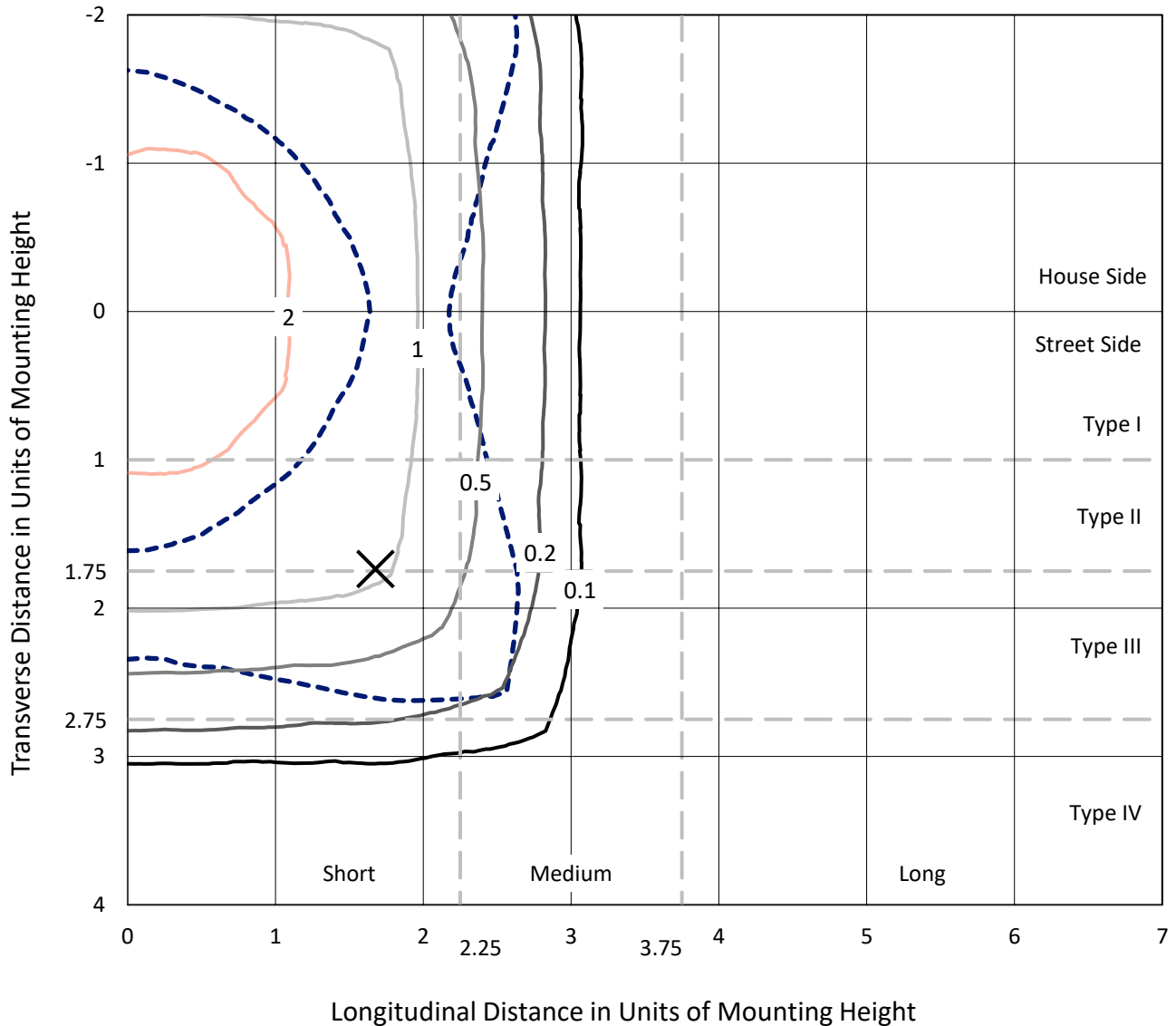
Lumens per Lamp: N/A
Luminaire Lumens: 32318.6 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

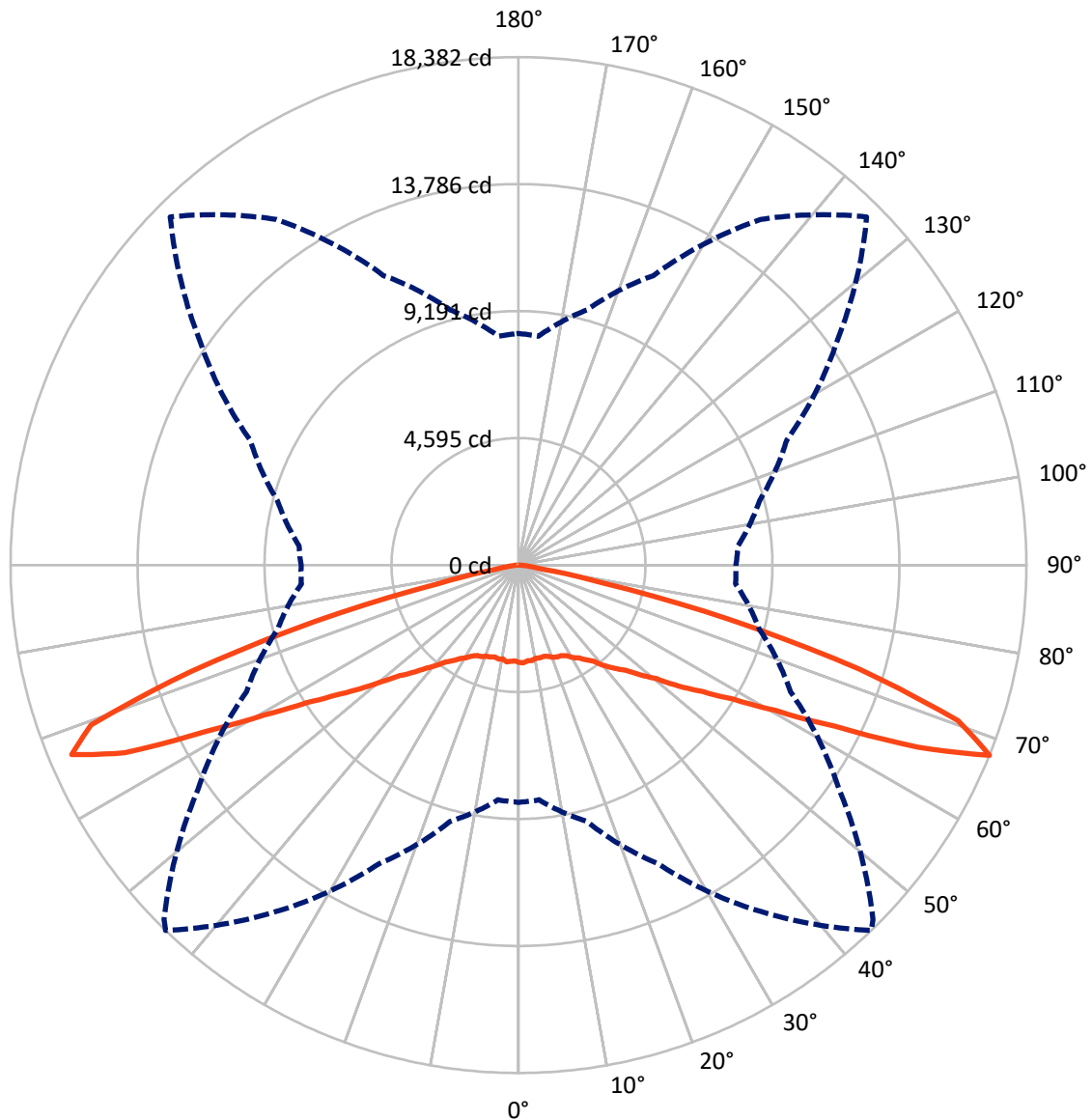
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.9 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
House Side	Lumens	16117.9	0.0	16117.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	16200.7	0.0	16200.7
	% Fixture	50.1	0.0	50.1
Total	Lumens	32318.6	0.0	32318.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.1	1.0
10°-20°	976.0	3.0
20°-30°	1659.7	5.1
30°-40°	2631.5	8.1
40°-50°	4290.9	13.3
50°-60°	7328.3	22.7
60°-70°	11146.2	34.5
70°-80°	3757.0	11.6
80°-90°	195.1	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°	32318.6	100.0
0°-180°	32318.6	100.0

Coefficient of Utilization



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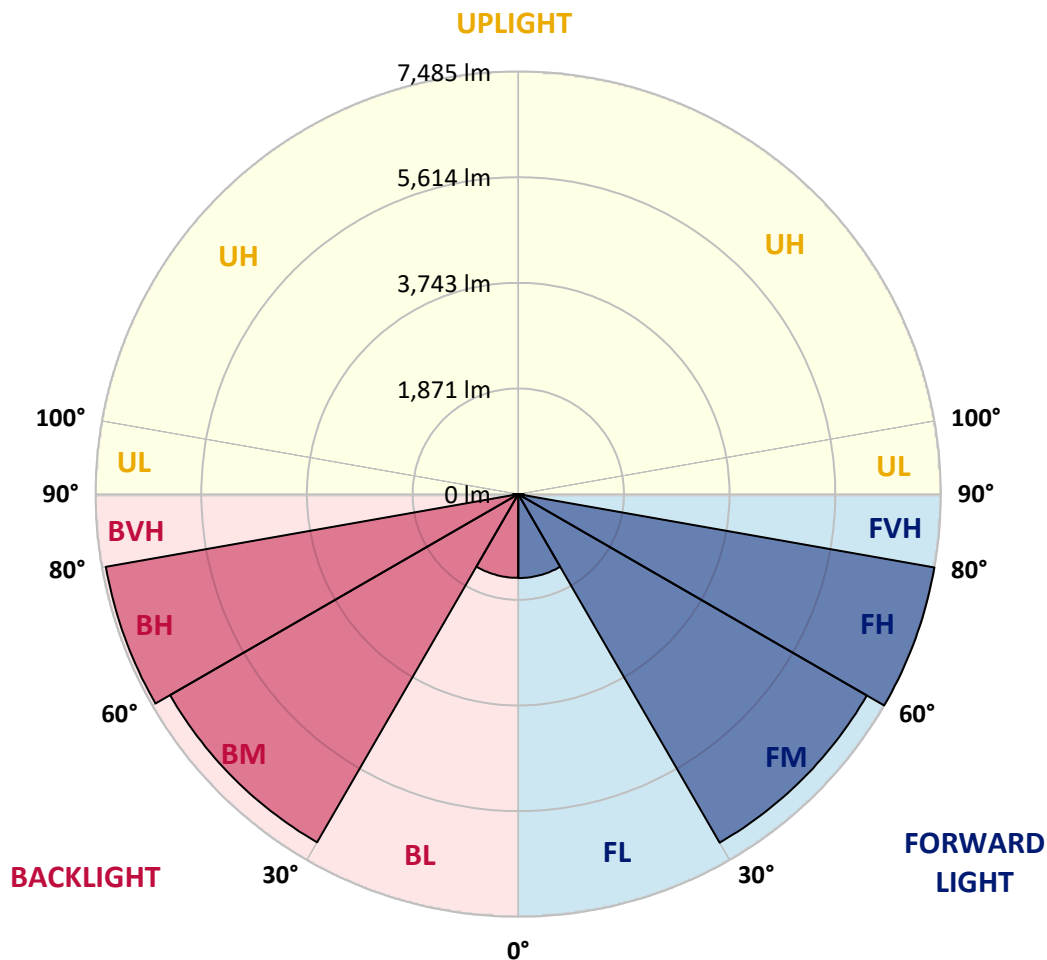
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1486.4	4.6			
FM (30°-60°)	7129.2	22.1			
FH (60°-80°)	7485.3	23.2			G3/7500
FVH (80°-90°)	99.8	0.3			G1/100
BL (0°-30°)	1483.3	4.6	B3/2500		
BM (30°-60°)	7121.5	22.0	B4/8500		
BH (60°-80°)	7417.8	23.0	B5		G3/7500
BVH (80°-90°)	95.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3530.2	3530.2	3530.2	3530.2	3530.2	3530.2	3530.2	3530.2	3530.2	3530.2	3530.2
2.5°	3449.1	3489.7	3519.2	3515.5	3526.6	3537.6	3522.9	3545.0	3530.2	3556.1	3570.8
5°	3515.5	3504.4	3508.1	3486.0	3537.6	3478.6	3478.6	3508.1	3545.0	3500.7	3526.6
7.5°	3474.9	3467.5	3449.1	3482.3	3493.4	3493.4	3522.9	3467.5	3530.2	3545.0	3548.7
10°	3430.6	3390.1	3445.4	3478.6	3486.0	3427.0	3452.8	3467.5	3449.1	3467.5	3478.6
12.5°	3393.8	3415.9	3415.9	3415.9	3404.8	3445.4	3471.2	3467.5	3430.6	3463.8	3404.8
15°	3390.1	3379.0	3412.2	3441.7	3423.3	3430.6	3441.7	3474.9	3404.8	3419.6	3419.6
17.5°	3386.4	3401.1	3412.2	3408.5	3471.2	3471.2	3460.2	3438.0	3493.4	3463.8	3423.3
20°	3401.1	3390.1	3419.6	3430.6	3474.9	3563.4	3530.2	3511.8	3482.3	3445.4	3445.4
22.5°	3419.6	3412.2	3452.8	3500.7	3585.6	3607.7	3604.0	3581.9	3530.2	3486.0	3478.6
25°	3486.0	3419.6	3463.8	3556.1	3585.6	3629.8	3659.4	3629.8	3559.8	3570.8	3504.4
27.5°	3585.6	3574.5	3633.5	3696.2	3670.4	3711.0	3685.2	3707.3	3711.0	3655.7	3589.3
30°	3703.6	3670.4	3707.3	3829.0	3840.1	3884.4	3840.1	3781.1	3799.5	3751.6	3718.4
32.5°	3873.3	3862.2	3932.3	4013.5	4028.2	4006.1	3984.0	4017.2	3939.7	3902.8	3843.8
35°	3984.0	4031.9	4116.8	4179.5	4227.4	4205.3	4216.4	4183.2	4201.6	4124.2	4098.3
37.5°	4312.3	4293.8	4312.3	4419.3	4430.3	4419.3	4430.3	4467.2	4441.4	4375.0	4308.6
40°	4622.1	4592.6	4636.9	4758.6	4751.3	4788.1	4714.4	4754.9	4754.9	4629.5	4603.7
42.5°	4854.5	4954.1	5005.8	5105.4	5142.3	5109.1	5094.3	5101.7	5182.9	5035.3	4980.0
45°	5334.1	5330.4	5485.3	5540.7	5437.4	5430.0	5400.5	5489.0	5544.4	5459.5	5437.4
47.5°	5854.2	5880.1	5968.6	5990.7	6053.4	5939.1	5939.1	5950.1	6145.6	5946.5	5843.2
50°	6322.7	6355.9	6533.0	6706.4	6588.3	6466.6	6514.5	6573.6	6680.5	6492.4	6403.9
52.5°	6890.8	7071.6	7189.6	7281.8	7366.7	7281.8	7171.2	7237.6	7447.8	7197.0	7086.3
55°	7709.7	7853.6	7964.3	8133.9	8204.0	8089.7	8078.6	8071.2	8189.3	7923.7	7772.4
57.5°	8624.6	8565.5	8742.6	9004.5	9259.1	9148.4	9115.2	9122.6	9152.1	8775.8	8661.5
60°	9760.7	9827.1	10037.4	10266.1	10535.4	10690.3	10472.7	10347.3	10373.1	9860.3	9683.3
62.5°	10410.0	10557.5	11033.4	11819.1	12361.4	12844.6	12877.8	12062.6	11516.6	10520.6	9768.1
65°	10096.4	10074.3	10970.7	12424.1	14478.8	15884.3	15674.0	13696.8	11789.6	10207.1	9196.3
67.5°	8587.7	8528.7	9613.2	11918.7	15312.5	18381.6	18141.8	14157.9	10867.4	9030.3	7886.8
70°	5533.3	5518.5	6695.3	9085.7	13670.9	16876.6	16965.1	12859.4	8845.9	6614.1	5481.7
72.5°	2010.4	2132.2	2814.6	4884.1	9284.9	12911.0	12966.4	9521.0	5086.9	3058.1	2253.9
75°	741.5	763.6	889.0	1586.2	4231.1	7927.4	8133.9	4618.5	1807.5	996.0	811.6
77.5°	427.9	431.6	475.9	590.2	1254.2	3095.0	3220.4	1401.8	700.9	531.2	490.6
80°	291.4	287.7	335.7	383.6	501.7	877.9	933.3	586.5	442.7	368.9	309.9
82.5°	169.7	180.8	247.2	273.0	306.2	387.3	394.7	365.2	332.0	273.0	202.9
85°	103.3	84.8	136.5	151.2	177.1	173.4	173.4	199.2	214.0	191.8	114.4
87.5°	25.8	25.8	33.2	36.9	48.0	36.9	40.6	77.5	103.3	95.9	59.0
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°	3530.2	3530.2	3530.2	3530.2	3530.2	3530.2	3530.2	3530.2	3530.2	3530.2	3530.2
2.5°	3537.6	3526.6	3533.9	3574.5	3548.7	3471.2	3489.7	3530.2	3497.0	3478.6	3474.9
5°	3522.9	3545.0	3519.2	3526.6	3552.4	3489.7	3500.7	3552.4	3530.2	3537.6	3497.0
7.5°	3526.6	3537.6	3515.5	3482.3	3482.3	3533.9	3504.4	3511.8	3478.6	3533.9	3460.2
10°	3504.4	3474.9	3449.1	3467.5	3460.2	3445.4	3434.3	3456.5	3423.3	3471.2	3419.6
12.5°	3438.0	3445.4	3438.0	3430.6	3445.4	3482.3	3423.3	3430.6	3379.0	3386.4	3412.2
15°	3412.2	3434.3	3427.0	3467.5	3486.0	3430.6	3474.9	3430.6	3390.1	3367.9	3408.5
17.5°	3423.3	3456.5	3445.4	3474.9	3441.7	3482.3	3489.7	3471.2	3423.3	3404.8	3423.3
20°	3434.3	3423.3	3438.0	3489.7	3537.6	3497.0	3497.0	3486.0	3441.7	3415.9	3415.9
22.5°	3460.2	3441.7	3463.8	3504.4	3519.2	3581.9	3526.6	3500.7	3427.0	3360.6	3423.3
25°	3511.8	3522.9	3537.6	3522.9	3604.0	3596.6	3589.3	3570.8	3456.5	3460.2	3449.1
27.5°	3611.4	3548.7	3567.1	3655.7	3666.7	3696.2	3659.4	3692.6	3570.8	3574.5	3500.7
30°	3733.1	3666.7	3725.8	3803.2	3799.5	3854.9	3836.4	3843.8	3759.0	3711.0	3611.4
32.5°	3865.9	3858.6	3895.4	3943.4	3961.8	3991.4	3987.7	3987.7	3936.0	3810.6	3829.0
35°	4013.5	4065.1	4109.4	4161.0	4168.4	4205.3	4153.7	4161.0	4109.4	4017.2	4046.7
37.5°	4304.9	4301.2	4349.2	4411.9	4419.3	4389.7	4430.3	4411.9	4341.8	4279.1	4231.1
40°	4644.3	4570.5	4614.8	4762.3	4773.4	4721.7	4718.1	4714.4	4662.7	4526.2	4496.7
42.5°	4939.4	5035.3	5027.9	5075.9	5042.7	5016.9	5109.1	5057.4	5016.9	4873.0	4847.2
45°	5319.3	5348.9	5444.8	5599.7	5441.1	5441.1	5503.8	5463.2	5441.1	5334.1	5234.5
47.5°	5791.5	5817.3	6009.2	6020.2	5916.9	5846.9	6042.4	6049.7	5957.5	5876.4	5754.6
50°	6344.8	6355.9	6529.3	6706.4	6592.0	6459.2	6658.4	6735.9	6529.3	6418.6	6267.4
52.5°	6953.5	6920.3	7064.2	7396.2	7285.5	7244.9	7458.9	7477.3	7197.0	7023.6	7064.2
55°	7654.4	7610.1	8001.1	8226.2	8156.1	8082.3	8178.2	8222.5	7997.5	7713.4	7813.0
57.5°	8561.9	8584.0	8779.5	9000.8	9115.2	9133.6	9177.9	9133.6	8904.9	8617.2	8525.0
60°	9469.3	9535.7	9915.7	10332.5	10369.4	10694.0	10635.0	10413.7	10089.0	9679.6	9698.0
62.5°	9805.0	9749.7	10362.0	11380.1	12247.0	12840.9	12579.0	11793.3	11040.8	10295.6	10351.0
65°	9129.9	9266.4	10100.1	11693.7	13575.0	15924.8	14530.4	12357.7	10837.9	9875.1	9768.1
67.5°	7868.3	7971.6	9030.3	10712.5	14050.9	17820.9	15268.2	11560.9	9557.8	8311.0	8377.4
70°	5481.7	5533.3	6569.9	8775.8	12741.3	16817.5	13774.2	8879.1	6599.4	5260.3	5334.1
72.5°	2205.9	2331.4	3013.8	5286.1	9406.6	12778.2	9273.8	4659.0	2737.1	2036.3	1848.1
75°	815.2	818.9	962.8	1818.6	4467.2	8030.7	4183.2	1497.7	874.3	715.6	682.4
77.5°	472.2	468.5	501.7	656.6	1294.8	3135.5	1187.8	586.5	475.9	427.9	409.5
80°	295.1	291.4	343.1	435.3	568.1	859.5	501.7	365.2	320.9	276.7	276.7
82.5°	188.1	191.8	269.3	320.9	346.8	380.0	291.4	258.2	239.8	158.6	154.9
85°	121.7	110.7	188.1	214.0	191.8	169.7	162.3	136.5	125.4	77.5	84.8
87.5°	55.3	59.0	95.9	107.0	70.1	40.6	40.6	29.5	29.5	18.4	18.4
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)