

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: P479351

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

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479351  
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-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

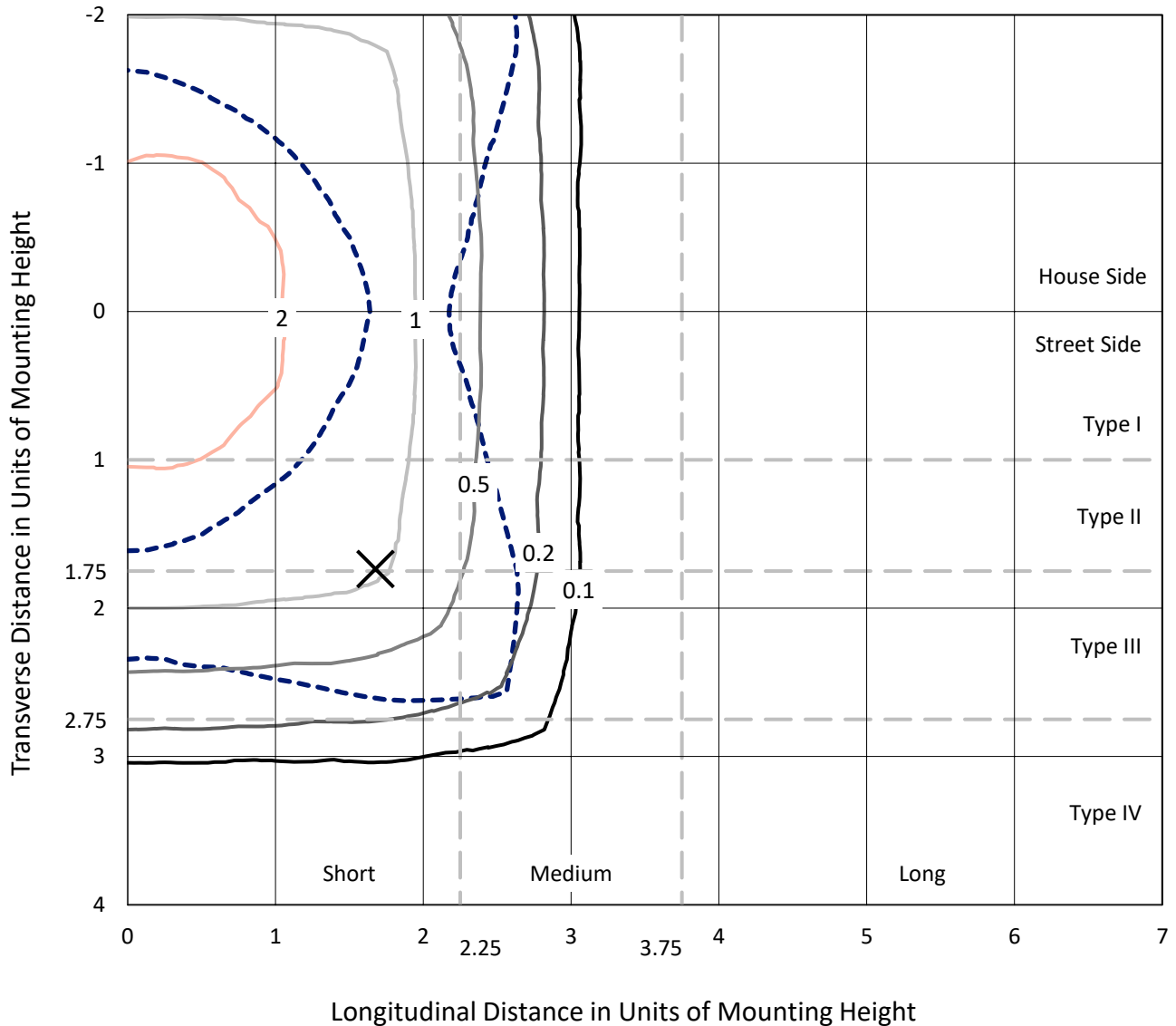
Lumens per Lamp: N/A  
Luminaire Lumens: 31595 lumens  
Efficiency: N/A  
Efficacy: 145.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

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

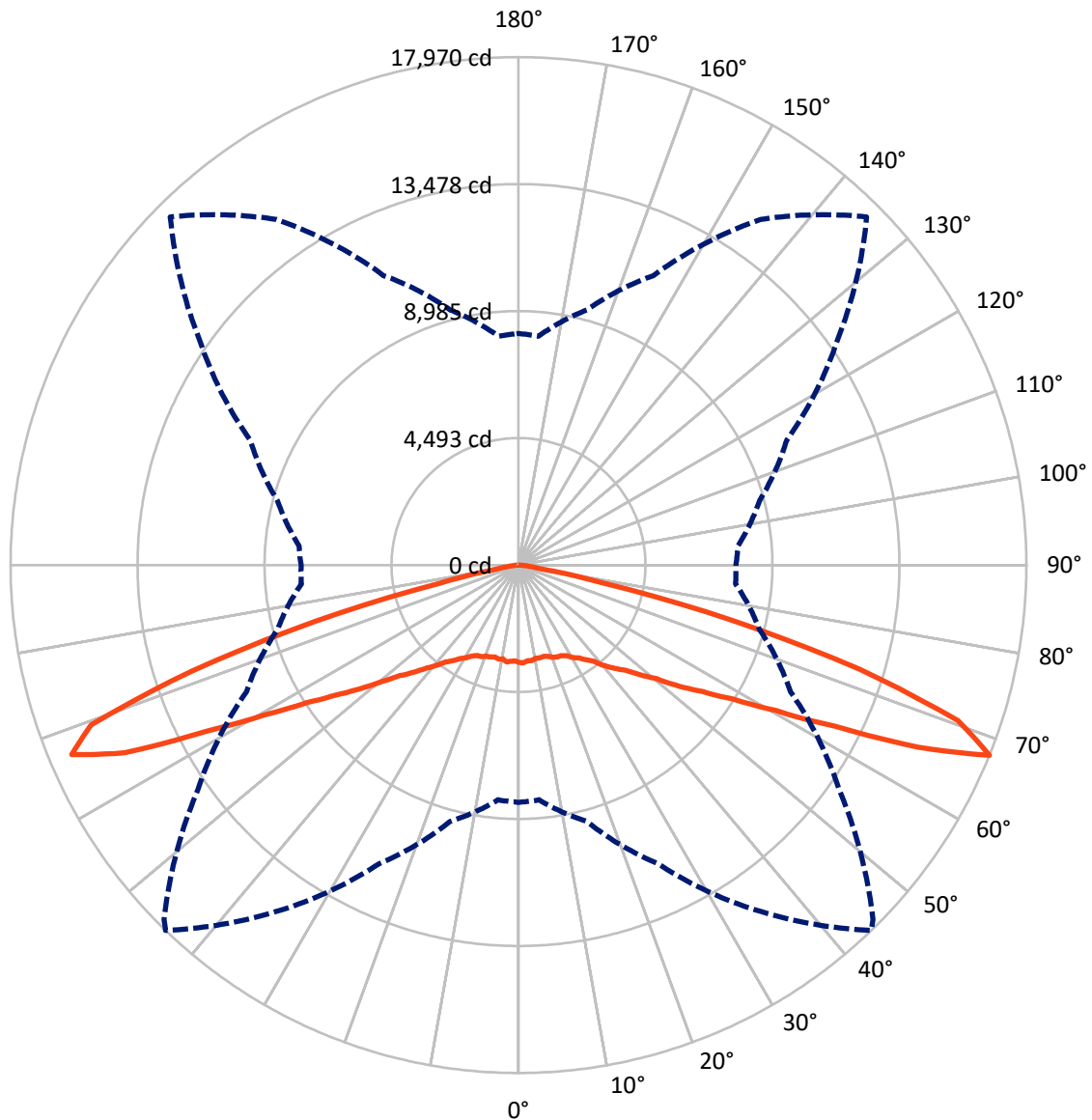
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.8 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	15757.1	0.0	15757.1
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	15838.0	0.0	15838.0
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	31595.0	0.0	31595.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.6	1.0
10°-20°	954.1	3.0
20°-30°	1622.5	5.1
30°-40°	2572.6	8.1
40°-50°	4194.8	13.3
50°-60°	7164.2	22.7
60°-70°	10896.7	34.5
70°-80°	3672.8	11.6
80°-90°	190.7	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°	31595.0	100.0
0°-180°	31595.0	100.0

**Coefficient of Utilization**



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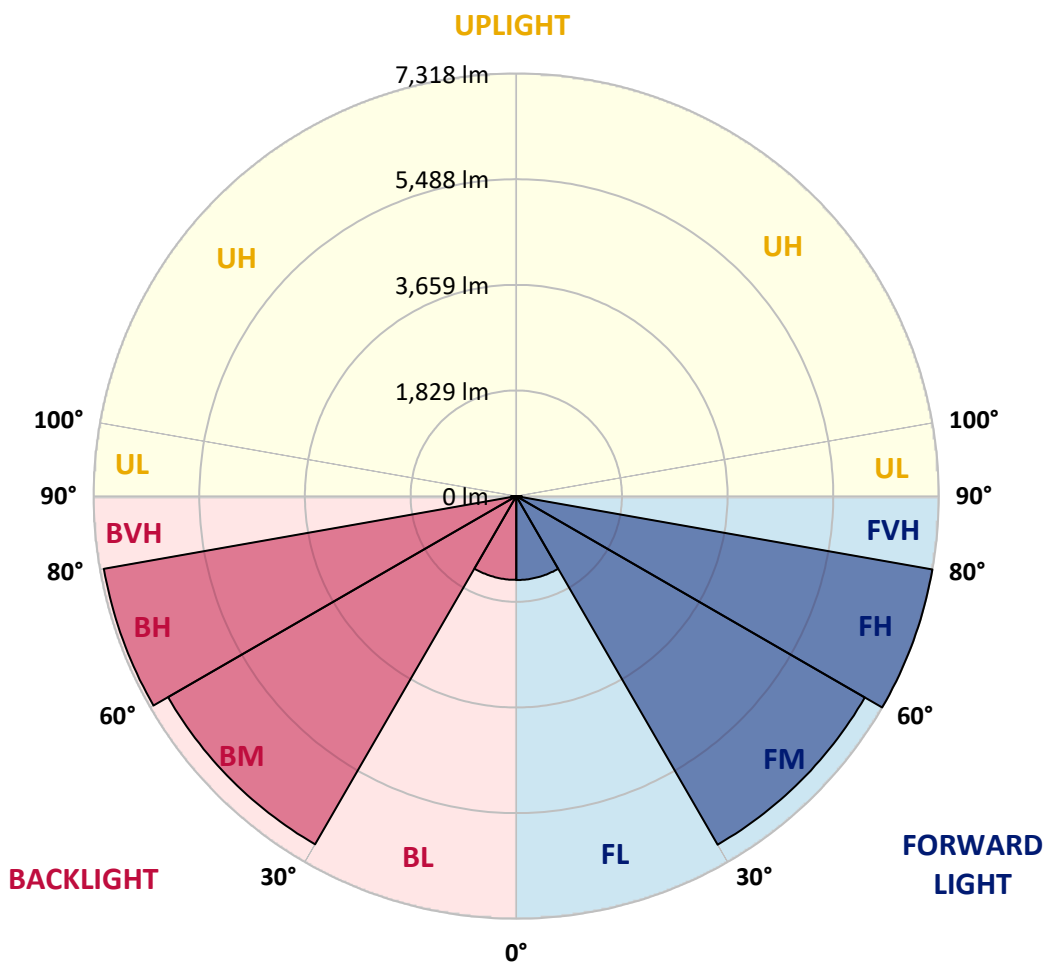
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1453.1	4.6			
FM (30°-60°)	6969.6	22.1			
FH (60°-80°)	7317.7	23.2			G3/7500
FVH (80°-90°)	97.6	0.3			G1/100
BL (0°-30°)	1450.1	4.6	B3/2500		
BM (30°-60°)	6962.0	22.0	B4/8500		
BH (60°-80°)	7251.8	23.0	B5		G3/7500
BVH (80°-90°)	93.1	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°	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2
2.5°	3371.9	3411.5	3440.4	3436.8	3447.6	3458.4	3444.0	3465.6	3451.2	3476.5	3490.9
5°	3436.8	3426.0	3429.6	3407.9	3458.4	3400.7	3400.7	3429.6	3465.6	3422.4	3447.6
7.5°	3397.1	3389.9	3371.9	3404.3	3415.1	3415.1	3444.0	3389.9	3451.2	3465.6	3469.2
10°	3353.8	3314.2	3368.3	3400.7	3407.9	3350.2	3375.5	3389.9	3371.9	3389.9	3400.7
12.5°	3317.8	3339.4	3339.4	3339.4	3328.6	3368.3	3393.5	3389.9	3353.8	3386.3	3328.6
15°	3314.2	3303.4	3335.8	3364.7	3346.6	3353.8	3364.7	3397.1	3328.6	3343.0	3343.0
17.5°	3310.6	3325.0	3335.8	3332.2	3393.5	3393.5	3382.7	3361.1	3415.1	3386.3	3346.6
20°	3325.0	3314.2	3343.0	3353.8	3397.1	3483.7	3451.2	3433.2	3404.3	3368.3	3368.3
22.5°	3343.0	3335.8	3375.5	3422.4	3505.3	3526.9	3523.3	3501.7	3451.2	3407.9	3400.7
25°	3407.9	3343.0	3386.3	3476.5	3505.3	3548.6	3577.4	3548.6	3480.1	3490.9	3426.0
27.5°	3505.3	3494.5	3552.2	3613.5	3588.2	3627.9	3602.7	3624.3	3627.9	3573.8	3508.9
30°	3620.7	3588.2	3624.3	3743.3	3754.1	3797.4	3754.1	3696.4	3714.5	3667.6	3635.1
32.5°	3786.6	3775.8	3844.3	3923.6	3938.1	3916.4	3894.8	3927.2	3851.5	3815.4	3757.7
35°	3894.8	3941.7	4024.6	4085.9	4132.8	4111.2	4122.0	4089.5	4107.6	4031.8	4006.6
37.5°	4215.7	4197.7	4215.7	4320.3	4331.1	4320.3	4331.1	4367.2	4342.0	4277.0	4212.1
40°	4518.7	4489.8	4533.1	4652.1	4644.9	4681.0	4608.8	4648.5	4648.5	4525.9	4500.6
42.5°	4745.9	4843.2	4893.7	4991.1	5027.2	4994.7	4980.3	4987.5	5066.8	4922.6	4868.5
45°	5214.7	5211.1	5362.5	5416.6	5315.7	5308.4	5279.6	5366.1	5420.2	5337.3	5315.7
47.5°	5723.2	5748.4	5835.0	5856.6	5917.9	5806.1	5806.1	5816.9	6008.1	5813.3	5712.3
50°	6181.2	6213.6	6386.7	6556.2	6440.8	6321.8	6368.7	6426.4	6531.0	6347.1	6260.5
52.5°	6736.5	6913.2	7028.6	7118.8	7201.7	7118.8	7010.6	7075.5	7281.1	7035.9	6927.7
55°	7537.1	7677.8	7786.0	7951.9	8020.4	7908.6	7897.8	7890.5	8005.9	7746.3	7598.4
57.5°	8431.5	8373.8	8546.9	8802.9	9051.8	8943.6	8911.1	8918.3	8947.2	8579.3	8467.5
60°	9542.2	9607.1	9812.7	10036.3	10299.5	10451.0	10238.2	10115.6	10140.9	9639.6	9466.5
62.5°	10176.9	10321.2	10786.4	11554.5	12084.6	12557.1	12589.5	11792.5	11258.8	10285.1	9549.4
65°	9870.4	9848.8	10725.1	12146.0	14154.7	15528.6	15323.1	13390.1	11525.7	9978.6	8990.5
67.5°	8395.4	8337.7	9398.0	11651.9	14969.7	17970.1	17735.7	13840.9	10624.1	8828.2	7710.2
70°	5409.4	5395.0	6545.4	8882.3	13364.9	16498.7	16585.3	12571.5	8647.9	6466.1	5358.9
72.5°	1965.4	2084.4	2751.6	4774.7	9077.0	12622.0	12676.1	9307.8	4973.1	2989.6	2203.4
75°	724.9	746.5	869.1	1550.7	4136.4	7749.9	7951.9	4515.1	1767.1	973.7	793.4
77.5°	418.3	421.9	465.2	577.0	1226.1	3025.7	3148.3	1370.4	685.2	519.3	479.6
80°	284.9	281.3	328.2	375.1	490.5	858.3	912.4	573.4	432.8	360.6	302.9
82.5°	165.9	176.7	241.6	266.9	299.3	378.7	385.9	357.0	324.6	266.9	198.3
85°	101.0	82.9	133.4	147.9	173.1	169.5	169.5	194.7	209.2	187.5	111.8
87.5°	25.2	25.2	32.5	36.1	46.9	36.1	39.7	75.7	101.0	93.8	57.7
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°	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2
2.5°	3458.4	3447.6	3454.8	3494.5	3469.2	3393.5	3411.5	3451.2	3418.8	3400.7	3397.1
5°	3444.0	3465.6	3440.4	3447.6	3472.8	3411.5	3422.4	3472.8	3451.2	3458.4	3418.8
7.5°	3447.6	3458.4	3436.8	3404.3	3404.3	3454.8	3426.0	3433.2	3400.7	3454.8	3382.7
10°	3426.0	3397.1	3371.9	3389.9	3382.7	3368.3	3357.4	3379.1	3346.6	3393.5	3343.0
12.5°	3361.1	3368.3	3361.1	3353.8	3368.3	3404.3	3346.6	3353.8	3303.4	3310.6	3335.8
15°	3335.8	3357.4	3350.2	3389.9	3407.9	3353.8	3397.1	3353.8	3314.2	3292.5	3332.2
17.5°	3346.6	3379.1	3368.3	3397.1	3364.7	3404.3	3411.5	3393.5	3346.6	3328.6	3346.6
20°	3357.4	3346.6	3361.1	3411.5	3458.4	3418.8	3418.8	3407.9	3364.7	3339.4	3339.4
22.5°	3382.7	3364.7	3386.3	3426.0	3440.4	3501.7	3447.6	3422.4	3350.2	3285.3	3346.6
25°	3433.2	3444.0	3458.4	3444.0	3523.3	3516.1	3508.9	3490.9	3379.1	3382.7	3371.9
27.5°	3530.5	3469.2	3487.3	3573.8	3584.6	3613.5	3577.4	3609.9	3490.9	3494.5	3422.4
30°	3649.6	3584.6	3642.3	3718.1	3714.5	3768.6	3750.5	3757.7	3674.8	3627.9	3530.5
32.5°	3779.4	3772.2	3808.2	3855.1	3873.1	3902.0	3898.4	3898.4	3847.9	3725.3	3743.3
35°	3923.6	3974.1	4017.4	4067.9	4075.1	4111.2	4060.7	4067.9	4017.4	3927.2	3956.1
37.5°	4208.5	4204.9	4251.8	4313.1	4320.3	4291.5	4331.1	4313.1	4244.6	4183.3	4136.4
40°	4540.3	4468.2	4511.5	4655.7	4666.5	4616.0	4612.4	4608.8	4558.3	4424.9	4396.1
42.5°	4828.8	4922.6	4915.4	4962.2	4929.8	4904.5	4994.7	4944.2	4904.5	4763.9	4738.7
45°	5200.3	5229.1	5322.9	5474.3	5319.3	5319.3	5380.6	5340.9	5319.3	5214.7	5117.3
47.5°	5661.9	5687.1	5874.6	5885.5	5784.5	5716.0	5907.1	5914.3	5824.1	5744.8	5625.8
50°	6202.8	6213.6	6383.1	6556.2	6444.4	6314.6	6509.3	6585.1	6383.1	6274.9	6127.1
52.5°	6797.8	6765.4	6906.0	7230.6	7122.4	7082.7	7291.9	7309.9	7035.9	6866.4	6906.0
55°	7483.0	7439.8	7822.0	8042.0	7973.5	7901.4	7995.1	8038.4	7818.4	7540.7	7638.1
57.5°	8370.2	8391.8	8582.9	8799.3	8911.1	8929.2	8972.4	8929.2	8705.6	8424.3	8334.1
60°	9257.3	9322.2	9693.7	10101.2	10137.3	10454.6	10396.9	10180.5	9863.2	9462.9	9480.9
62.5°	9585.5	9531.4	10130.0	11125.4	11972.9	12553.5	12297.4	11529.3	10793.6	10065.1	10119.2
65°	8925.5	9059.0	9874.0	11431.9	13271.1	15568.3	14205.1	12081.0	10595.3	9654.0	9549.4
67.5°	7692.2	7793.2	8828.2	10472.6	13736.3	17421.9	14926.4	11302.1	9343.9	8125.0	8189.9
70°	5358.9	5409.4	6422.8	8579.3	12456.1	16441.0	13465.9	8680.3	6451.6	5142.6	5214.7
72.5°	2156.6	2279.2	2946.3	5167.8	9196.0	12492.2	9066.2	4554.7	2675.9	1990.7	1806.7
75°	797.0	800.6	941.2	1777.9	4367.2	7850.9	4089.5	1464.2	854.7	699.6	667.2
77.5°	461.6	458.0	490.5	641.9	1265.8	3065.3	1161.2	573.4	465.2	418.3	400.3
80°	288.5	284.9	335.4	425.5	555.4	840.3	490.5	357.0	313.7	270.5	270.5
82.5°	183.9	187.5	263.3	313.7	339.0	371.4	284.9	252.4	234.4	155.1	151.5
85°	119.0	108.2	183.9	209.2	187.5	165.9	158.7	133.4	122.6	75.7	82.9
87.5°	54.1	57.7	93.8	104.6	68.5	39.7	39.7	28.9	28.9	18.0	18.0
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)