

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: P479197

Luminaire Tested: **IFLD-L-SA7C-722-U-5MQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479197
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

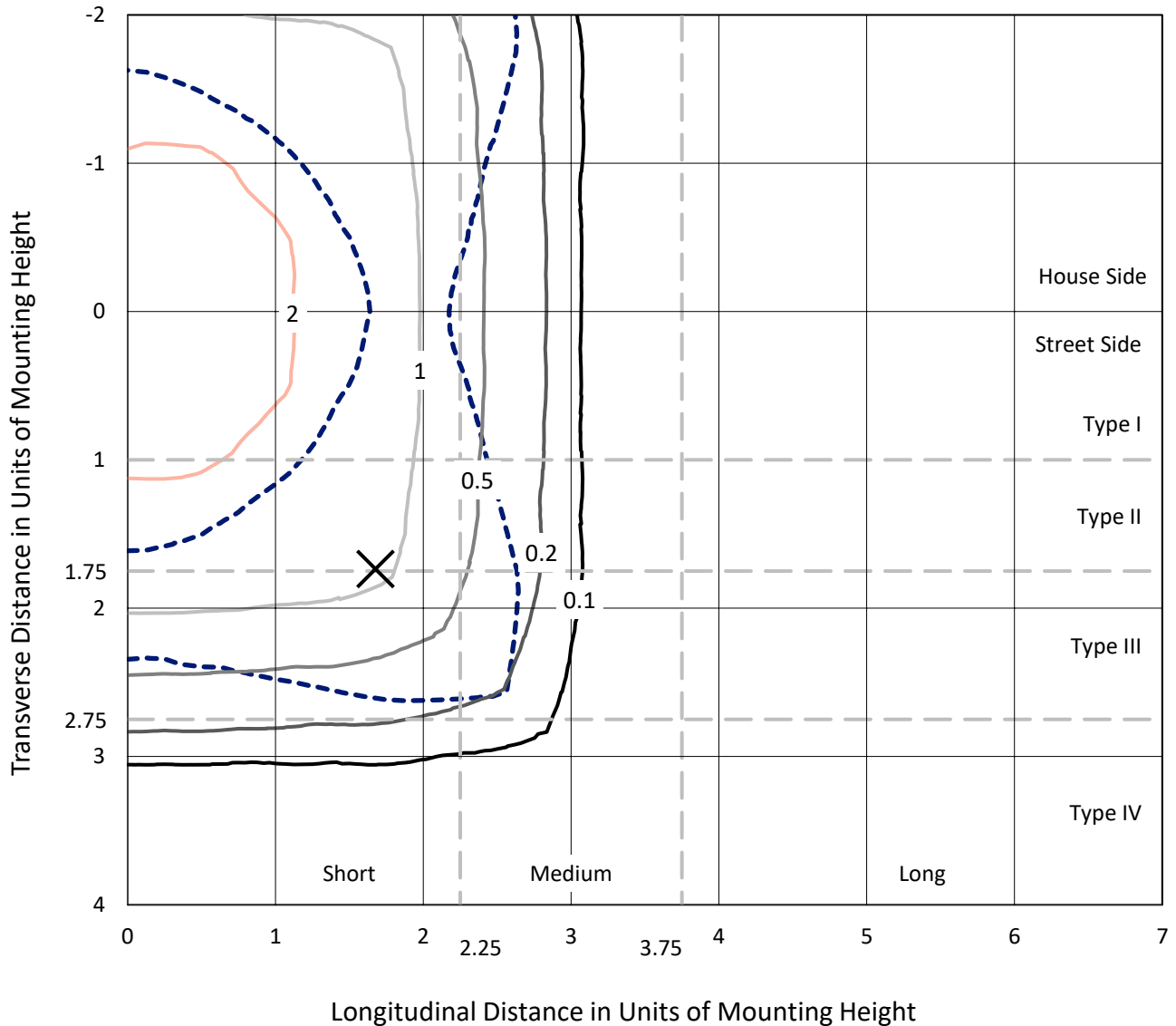
Lumens per Lamp: N/A
Luminaire Lumens: 32961.3 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 369
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

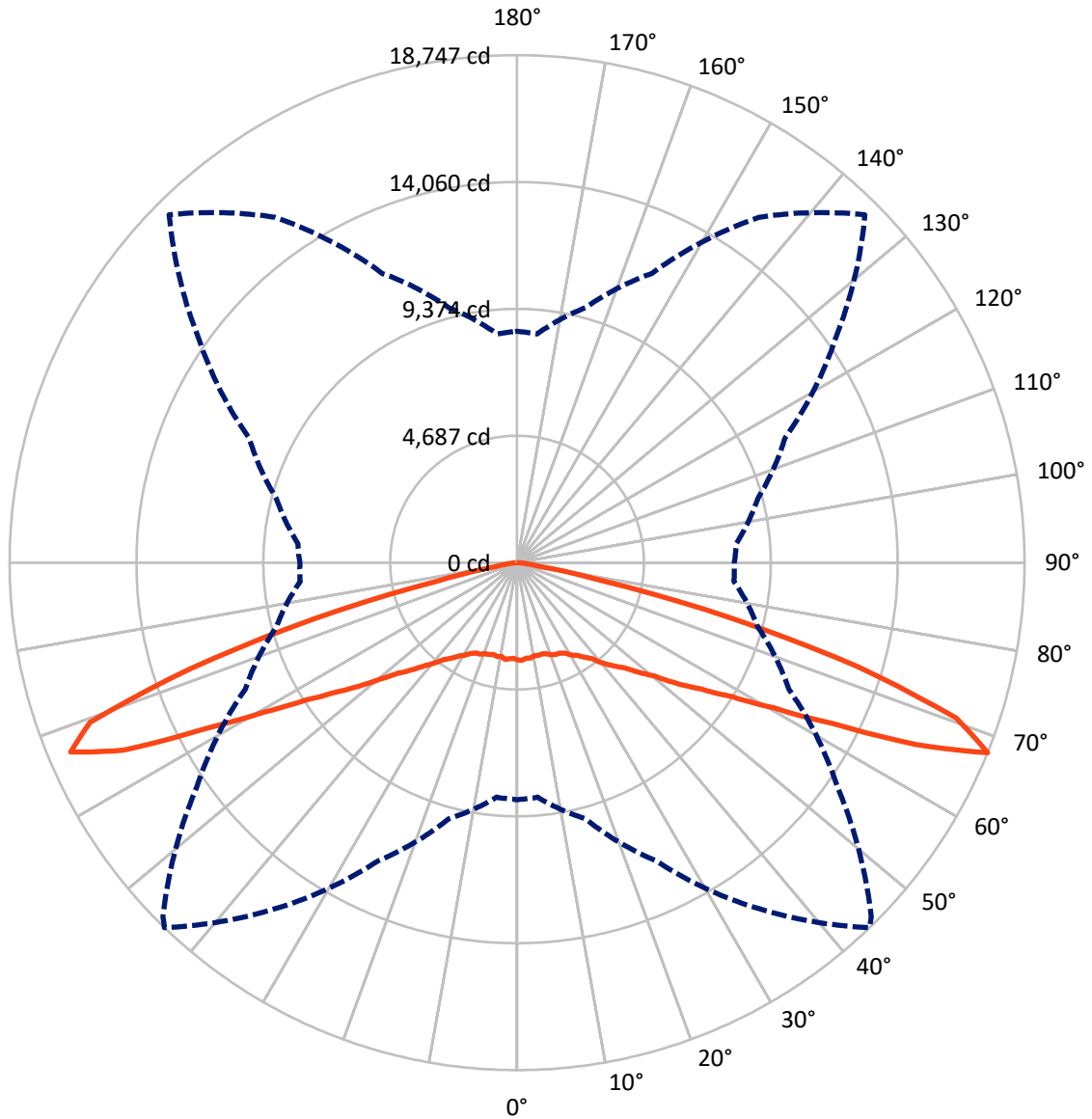
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 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	16438.5	0.0	16438.5
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	16522.9	0.0	16522.9
	% Fixture	50.1	0.0	50.1
Total	Lumens	32961.3	0.0	32961.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.7	1.0
10°-20°	995.4	3.0
20°-30°	1692.7	5.1
30°-40°	2683.8	8.1
40°-50°	4376.2	13.3
50°-60°	7474.0	22.7
60°-70°	11367.9	34.5
70°-80°	3831.7	11.6
80°-90°	198.9	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°	32961.3	100.0
0°-180°	32961.3	100.0

Coefficient of Utilization



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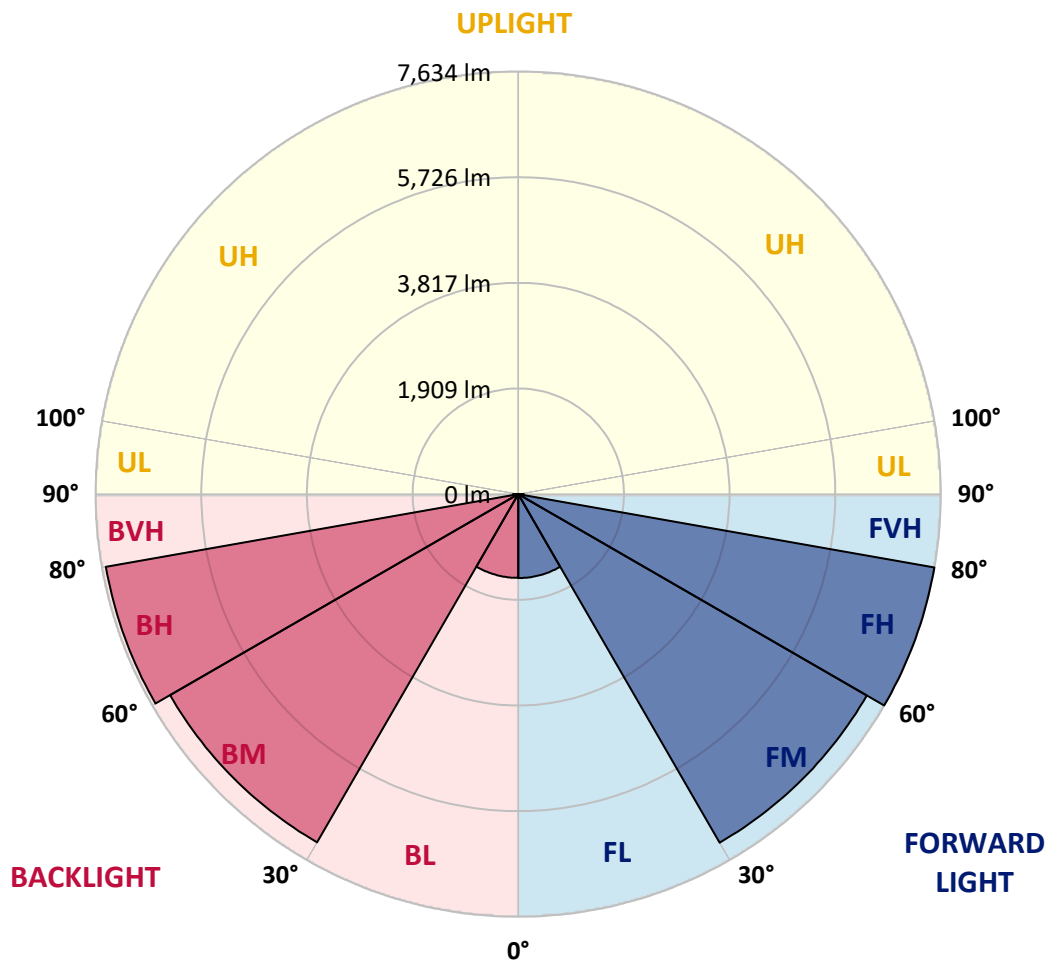
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1516.0	4.6			
FM (30°-60°)	7271.0	22.1			
FH (60°-80°)	7634.2	23.2			G4/12000
FVH (80°-90°)	101.8	0.3			G2/225
BL (0°-30°)	1512.8	4.6	B3/2500		
BM (30°-60°)	7263.1	22.0	B4/8500		
BH (60°-80°)	7565.4	23.0	B5		G4/12000
BVH (80°-90°)	97.2	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3600.5	3600.5	3600.5	3600.5	3600.5	3600.5	3600.5	3600.5	3600.5	3600.5	3600.5
2.5°	3517.7	3559.1	3589.2	3585.4	3596.7	3608.0	3592.9	3615.5	3600.5	3626.8	3641.8
5°	3585.4	3574.1	3577.9	3555.3	3608.0	3547.8	3547.8	3577.9	3615.5	3570.4	3596.7
7.5°	3544.0	3536.5	3517.7	3551.5	3562.8	3562.8	3592.9	3536.5	3600.5	3615.5	3619.3
10°	3498.9	3457.5	3513.9	3547.8	3555.3	3495.1	3521.5	3536.5	3517.7	3536.5	3547.8
12.5°	3461.3	3483.8	3483.8	3483.8	3472.5	3513.9	3540.3	3536.5	3498.9	3532.7	3472.5
15°	3457.5	3446.2	3480.1	3510.2	3491.4	3498.9	3510.2	3544.0	3472.5	3487.6	3487.6
17.5°	3453.7	3468.8	3480.1	3476.3	3540.3	3540.3	3529.0	3506.4	3562.8	3532.7	3491.4
20°	3468.8	3457.5	3487.6	3498.9	3544.0	3634.3	3600.5	3581.6	3551.5	3513.9	3513.9
22.5°	3487.6	3480.1	3521.5	3570.4	3656.9	3679.5	3675.7	3653.1	3600.5	3555.3	3547.8
25°	3555.3	3487.6	3532.7	3626.8	3656.9	3702.0	3732.1	3702.0	3630.6	3641.8	3574.1
27.5°	3656.9	3645.6	3705.8	3769.8	3743.4	3784.8	3758.5	3781.0	3784.8	3728.4	3660.7
30°	3777.3	3743.4	3781.0	3905.2	3916.5	3961.6	3916.5	3856.3	3875.1	3826.2	3792.3
32.5°	3950.3	3939.1	4010.5	4093.3	4108.4	4085.8	4063.2	4097.1	4018.1	3980.4	3920.2
35°	4063.2	4112.1	4198.7	4262.6	4311.5	4288.9	4300.2	4266.4	4285.2	4206.2	4179.8
37.5°	4398.1	4379.2	4398.1	4507.2	4518.4	4507.2	4518.4	4556.1	4529.7	4462.0	4394.3
40°	4714.1	4684.0	4729.1	4853.3	4845.8	4883.4	4808.1	4849.5	4849.5	4721.6	4695.3
42.5°	4951.1	5052.7	5105.4	5206.9	5244.6	5210.7	5195.6	5203.2	5285.9	5135.4	5079.0
45°	5440.2	5436.4	5594.4	5650.9	5545.5	5538.0	5507.9	5598.2	5654.6	5568.1	5545.5
47.5°	5970.7	5997.0	6087.3	6109.9	6173.8	6057.2	6057.2	6068.5	6267.9	6064.7	5959.4
50°	6448.5	6482.3	6662.9	6839.7	6719.4	6595.2	6644.1	6704.3	6813.4	6621.5	6531.2
52.5°	7027.9	7212.2	7332.6	7426.7	7513.2	7426.7	7313.8	7381.5	7596.0	7340.1	7227.3
55°	7863.1	8009.8	8122.7	8295.7	8367.2	8250.6	8239.3	8231.8	8352.2	8081.3	7927.0
57.5°	8796.1	8735.9	8916.5	9183.6	9443.2	9330.3	9296.5	9304.0	9334.1	8950.4	8833.7
60°	9954.9	10022.6	10237.0	10470.3	10744.9	10903.0	10681.0	10553.1	10579.4	10056.5	9875.9
62.5°	10617.0	10767.5	11252.8	12054.2	12607.2	13100.1	13134.0	12302.5	11745.7	10729.9	9962.4
65°	10297.2	10274.7	11188.9	12671.2	14766.8	16200.2	15985.7	13969.2	12024.1	10410.1	9379.3
67.5°	8758.5	8698.3	9804.4	12155.8	15617.0	18747.2	18502.7	14439.5	11083.5	9209.9	8043.7
70°	5643.4	5628.3	6828.5	9266.4	13942.8	17212.2	17302.5	13115.1	9021.8	6745.7	5590.7
72.5°	2050.4	2174.6	2870.6	4981.2	9469.5	13167.8	13224.3	9710.3	5188.1	3118.9	2298.7
75°	756.2	778.8	906.7	1617.8	4315.3	8085.0	8295.7	4710.3	1843.5	1015.8	827.7
77.5°	436.4	440.2	485.3	602.0	1279.2	3156.5	3284.4	1429.6	714.8	541.8	500.4
80°	297.2	293.5	342.4	391.3	511.7	895.4	951.8	598.2	451.5	376.2	316.0
82.5°	173.1	184.3	252.1	278.4	312.3	395.0	402.6	372.5	338.6	278.4	206.9
85°	105.3	86.5	139.2	154.3	180.6	176.8	176.8	203.2	218.2	195.6	116.6
87.5°	26.3	26.3	33.9	37.6	48.9	37.6	41.4	79.0	105.3	97.8	60.2
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°	3600.5	3600.5	3600.5	3600.5	3600.5	3600.5	3600.5	3600.5	3600.5	3600.5	3600.5
2.5°	3608.0	3596.7	3604.2	3645.6	3619.3	3540.3	3559.1	3600.5	3566.6	3547.8	3544.0
5°	3592.9	3615.5	3589.2	3596.7	3623.0	3559.1	3570.4	3623.0	3600.5	3608.0	3566.6
7.5°	3596.7	3608.0	3585.4	3551.5	3551.5	3604.2	3574.1	3581.6	3547.8	3604.2	3529.0
10°	3574.1	3544.0	3517.7	3536.5	3529.0	3513.9	3502.6	3525.2	3491.4	3540.3	3487.6
12.5°	3506.4	3513.9	3506.4	3498.9	3513.9	3551.5	3491.4	3498.9	3446.2	3453.7	3480.1
15°	3480.1	3502.6	3495.1	3536.5	3555.3	3498.9	3544.0	3498.9	3457.5	3434.9	3476.3
17.5°	3491.4	3525.2	3513.9	3544.0	3510.2	3551.5	3559.1	3540.3	3491.4	3472.5	3491.4
20°	3502.6	3491.4	3506.4	3559.1	3608.0	3566.6	3566.6	3555.3	3510.2	3483.8	3483.8
22.5°	3529.0	3510.2	3532.7	3574.1	3589.2	3653.1	3596.7	3570.4	3495.1	3427.4	3491.4
25°	3581.6	3592.9	3608.0	3592.9	3675.7	3668.2	3660.7	3641.8	3525.2	3529.0	3517.7
27.5°	3683.2	3619.3	3638.1	3728.4	3739.7	3769.8	3732.1	3766.0	3641.8	3645.6	3570.4
30°	3807.4	3739.7	3799.9	3878.9	3875.1	3931.5	3912.7	3920.2	3833.7	3784.8	3683.2
32.5°	3942.8	3935.3	3972.9	4021.8	4040.6	4070.7	4067.0	4067.0	4014.3	3886.4	3905.2
35°	4093.3	4146.0	4191.1	4243.8	4251.3	4288.9	4236.3	4243.8	4191.1	4097.1	4127.2
37.5°	4390.5	4386.8	4435.7	4499.6	4507.2	4477.1	4518.4	4499.6	4428.1	4364.2	4315.3
40°	4736.7	4661.4	4706.6	4857.0	4868.3	4815.7	4811.9	4808.1	4755.5	4616.3	4586.2
42.5°	5037.6	5135.4	5127.9	5176.8	5143.0	5116.6	5210.7	5158.0	5116.6	4969.9	4943.6
45°	5425.1	5455.2	5553.1	5711.1	5549.3	5549.3	5613.3	5571.9	5549.3	5440.2	5338.6
47.5°	5906.7	5933.0	6128.7	6140.0	6034.6	5963.1	6162.5	6170.1	6076.0	5993.2	5869.1
50°	6471.0	6482.3	6659.2	6839.7	6723.1	6587.7	6790.8	6869.8	6659.2	6546.3	6392.0
52.5°	7091.8	7058.0	7204.7	7543.3	7430.4	7389.0	7607.2	7626.0	7340.1	7163.3	7204.7
55°	7806.6	7761.5	8160.3	8389.8	8318.3	8243.1	8340.9	8386.0	8156.5	7866.8	7968.4
57.5°	8732.1	8754.7	8954.1	9179.9	9296.5	9315.3	9360.4	9315.3	9082.0	8788.6	8694.5
60°	9657.7	9725.4	10112.9	10538.0	10575.6	10906.7	10846.5	10620.8	10289.7	9872.1	9890.9
62.5°	10000.0	9943.6	10568.1	11606.5	12490.6	13096.3	12829.2	12027.9	11260.4	10500.4	10556.8
65°	9311.5	9450.7	10301.0	11926.3	13845.0	16241.6	14819.4	12603.5	11053.4	10071.5	9962.4
67.5°	8024.8	8130.2	9209.9	10925.5	14330.4	18175.4	15571.9	11790.8	9747.9	8476.3	8544.0
70°	5590.7	5643.4	6700.5	8950.4	12994.8	17152.0	14048.2	9055.7	6730.6	5364.9	5440.2
72.5°	2249.8	2377.7	3073.7	5391.3	9593.7	13032.4	9458.3	4751.7	2791.6	2076.8	1884.9
75°	831.5	835.2	981.9	1854.8	4556.1	8190.4	4266.4	1527.5	891.6	729.9	696.0
77.5°	481.6	477.8	511.7	669.7	1320.5	3197.9	1211.4	598.2	485.3	436.4	417.6
80°	301.0	297.2	349.9	443.9	579.4	876.6	511.7	372.5	327.3	282.2	282.2
82.5°	191.9	195.6	274.6	327.3	353.7	387.5	297.2	263.4	244.5	161.8	158.0
85°	124.2	112.9	191.9	218.2	195.6	173.1	165.5	139.2	127.9	79.0	86.5
87.5°	56.4	60.2	97.8	109.1	71.5	41.4	41.4	30.1	30.1	18.8	18.8
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)