

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: P479275

Luminaire Tested: **IFLD-L-SA7C-730-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479275
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-730-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

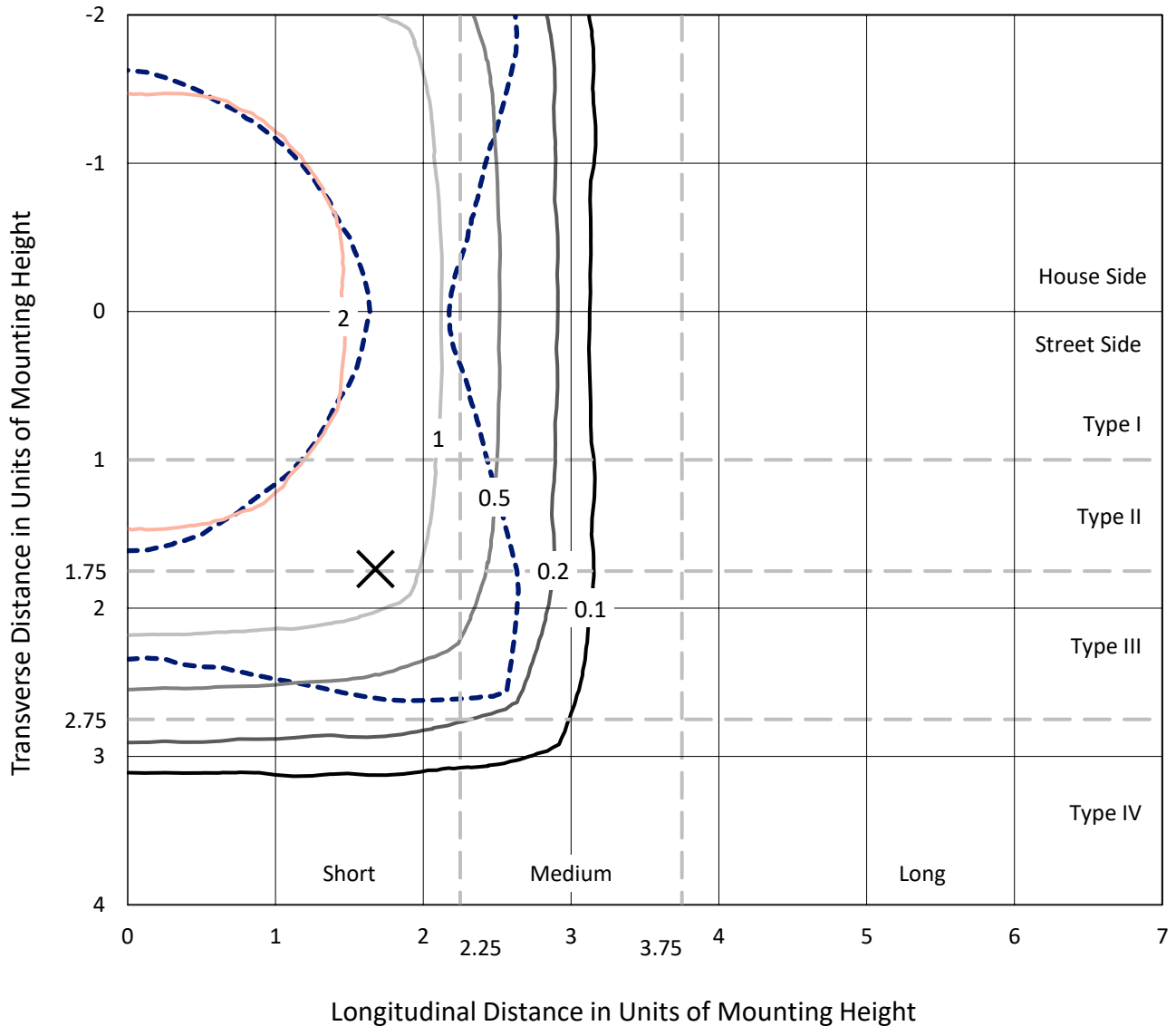
Lumens per Lamp: N/A
Luminaire Lumens: 40747.5 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

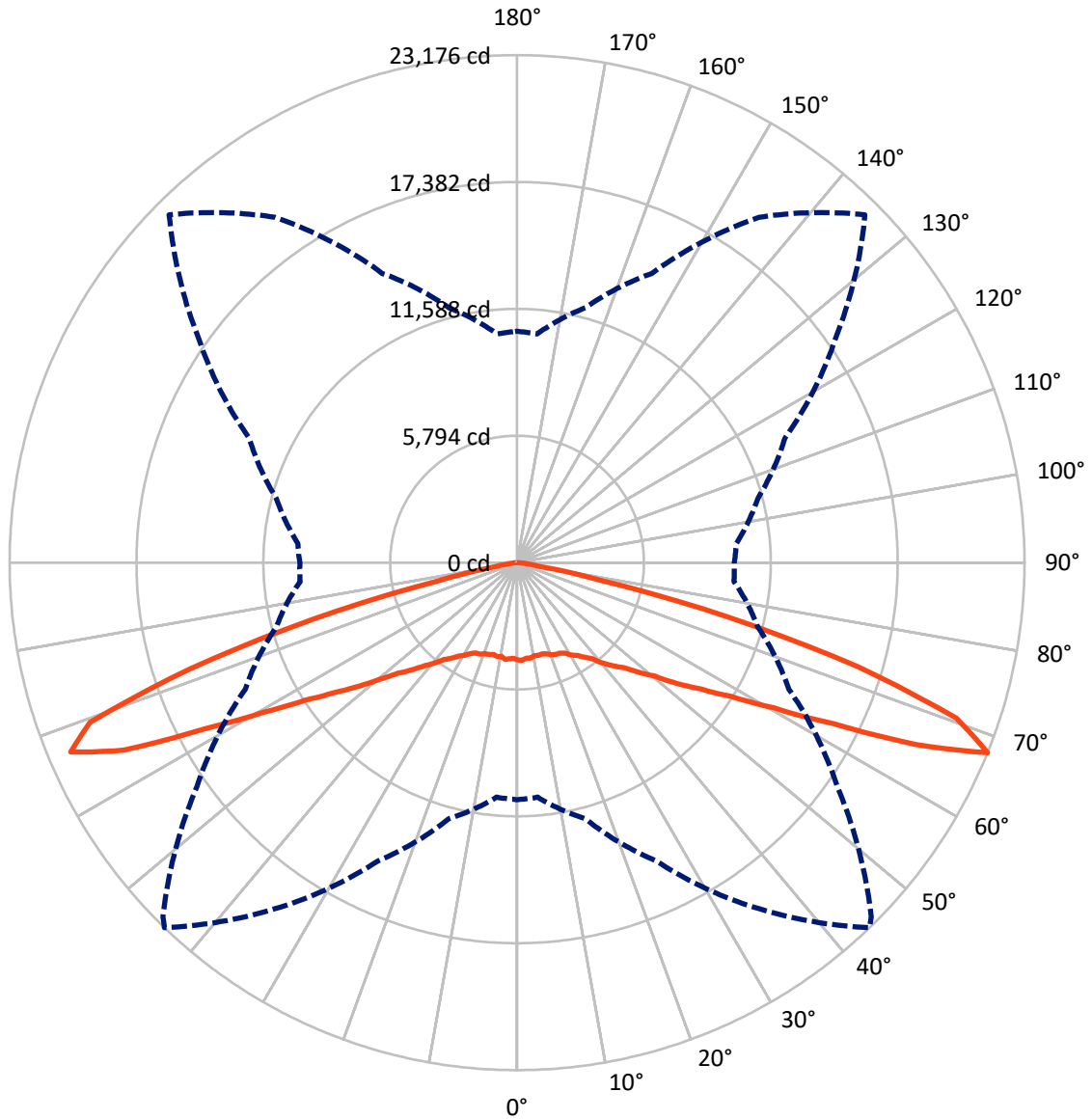
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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	20321.6	0.0	20321.6
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	20425.9	0.0	20425.9
	% Fixture	50.1	0.0	50.1
Total	Lumens	40747.5	0.0	40747.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.2	1.0
10°-20°	1230.5	3.0
20°-30°	2092.5	5.1
30°-40°	3317.8	8.1
40°-50°	5410.0	13.3
50°-60°	9239.5	22.7
60°-70°	14053.2	34.5
70°-80°	4736.8	11.6
80°-90°	245.9	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°	40747.5	100.0
0°-180°	40747.5	100.0

Coefficient of Utilization



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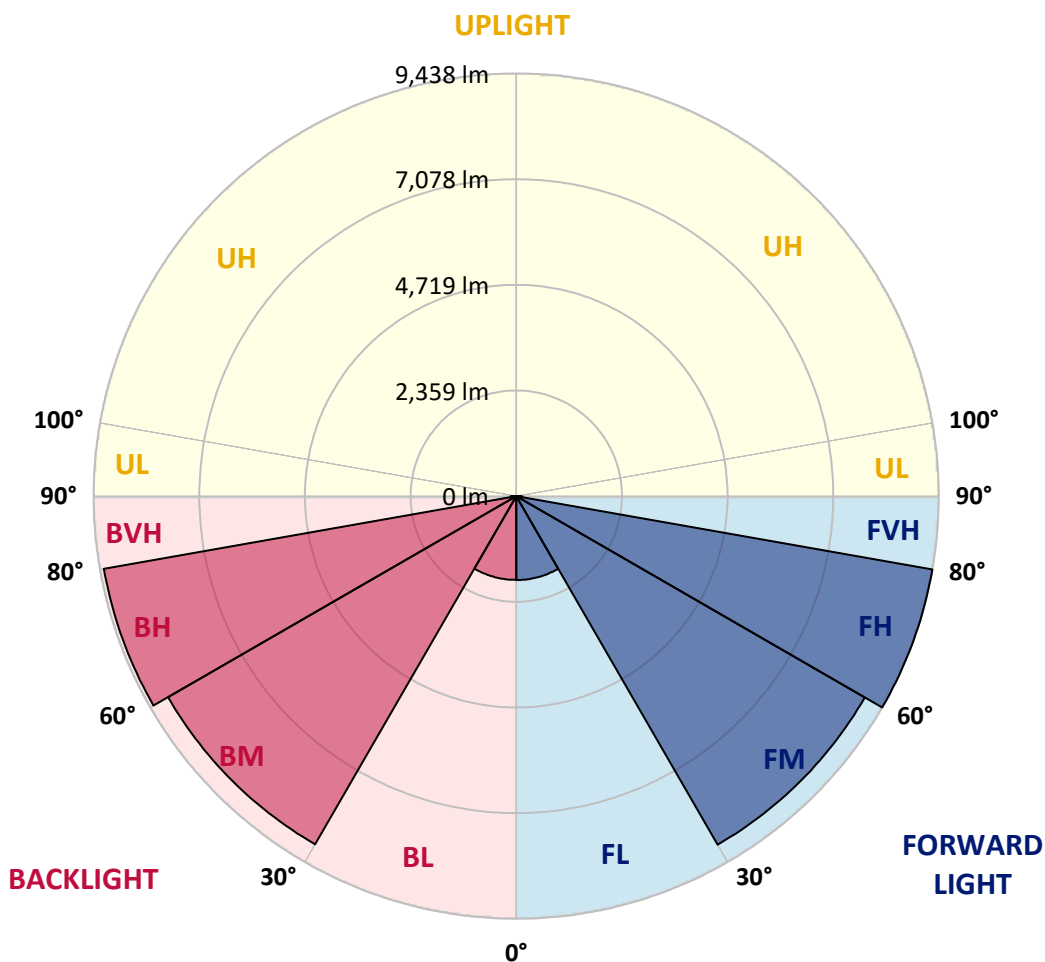
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1874.0	4.6			
FM (30°-60°)	8988.5	22.1			
FH (60°-80°)	9437.5	23.2			G4/12000
FVH (80°-90°)	125.8	0.3			G2/225
BL (0°-30°)	1870.2	4.6	B3/2500		
BM (30°-60°)	8978.8	22.0	B5		
BH (60°-80°)	9352.5	23.0	B5		G4/12000
BVH (80°-90°)	120.1	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°	4451.0	4451.0	4451.0	4451.0	4451.0	4451.0	4451.0	4451.0	4451.0	4451.0	4451.0
2.5°	4348.6	4399.8	4437.0	4432.4	4446.3	4460.3	4441.7	4469.6	4451.0	4483.5	4502.1
5°	4432.4	4418.4	4423.1	4395.1	4460.3	4385.8	4385.8	4423.1	4469.6	4413.8	4446.3
7.5°	4381.2	4371.9	4348.6	4390.5	4404.5	4404.5	4441.7	4371.9	4451.0	4469.6	4474.2
10°	4325.4	4274.2	4344.0	4385.8	4395.1	4320.7	4353.3	4371.9	4348.6	4371.9	4385.8
12.5°	4278.9	4306.8	4306.8	4306.8	4292.8	4344.0	4376.5	4371.9	4325.4	4367.2	4292.8
15°	4274.2	4260.3	4302.1	4339.3	4316.1	4325.4	4339.3	4381.2	4292.8	4311.4	4311.4
17.5°	4269.6	4288.2	4302.1	4297.5	4376.5	4376.5	4362.6	4334.7	4404.5	4367.2	4316.1
20°	4288.2	4274.2	4311.4	4325.4	4381.2	4492.8	4451.0	4427.7	4390.5	4344.0	4344.0
22.5°	4311.4	4302.1	4353.3	4413.8	4520.7	4548.6	4544.0	4516.1	4451.0	4395.1	4385.8
25°	4395.1	4311.4	4367.2	4483.5	4520.7	4576.5	4613.7	4576.5	4488.2	4502.1	4418.4
27.5°	4520.7	4506.8	4581.2	4660.3	4627.7	4678.9	4646.3	4674.2	4678.9	4609.1	4525.4
30°	4669.6	4627.7	4674.2	4827.7	4841.6	4897.5	4841.6	4767.2	4790.5	4730.0	4688.2
32.5°	4883.5	4869.5	4957.9	5060.2	5078.8	5050.9	5023.0	5064.9	4967.2	4920.7	4846.3
35°	5023.0	5083.5	5190.5	5269.5	5330.0	5302.1	5316.0	5274.2	5297.4	5199.8	5167.2
37.5°	5437.0	5413.7	5437.0	5571.8	5585.8	5571.8	5585.8	5632.3	5599.7	5516.0	5432.3
40°	5827.6	5790.4	5846.2	5999.7	5990.4	6036.9	5943.9	5995.1	5995.1	5836.9	5804.4
42.5°	6120.7	6246.2	6311.3	6436.9	6483.4	6441.6	6423.0	6432.3	6534.6	6348.5	6278.8
45°	6725.3	6720.6	6916.0	6985.7	6855.5	6846.2	6809.0	6920.6	6990.4	6883.4	6855.5
47.5°	7381.1	7413.6	7525.2	7553.1	7632.2	7488.0	7488.0	7502.0	7748.5	7497.3	7367.1
50°	7971.7	8013.6	8236.8	8455.4	8306.6	8153.1	8213.6	8288.0	8422.9	8185.7	8074.1
52.5°	8688.0	8915.9	9064.7	9181.0	9287.9	9181.0	9041.4	9125.2	9390.3	9074.0	8934.5
55°	9720.5	9901.9	10041.4	10255.3	10343.7	10199.5	10185.6	10176.3	10325.1	9990.2	9799.6
57.5°	10873.9	10799.5	11022.8	11353.0	11673.9	11534.4	11492.5	11501.8	11539.0	11064.6	10920.4
60°	12306.4	12390.1	12655.2	12943.6	13283.1	13478.5	13204.0	13045.9	13078.5	12432.0	12208.7
62.5°	13125.0	13311.0	13911.0	14901.6	15585.3	16194.6	16236.5	15208.6	14520.3	13264.5	12315.7
65°	12729.7	12701.7	13831.9	15664.4	18255.0	20027.0	19761.9	17269.0	14864.4	12869.2	11594.8
67.5°	10827.4	10753.0	12120.4	15027.2	19306.1	23175.7	22873.4	17850.4	13701.7	11385.5	9943.7
70°	6976.4	6957.8	8441.5	11455.3	17236.4	21278.1	21389.7	16213.2	11153.0	8339.2	6911.3
72.5°	2534.8	2688.2	3548.7	6157.9	11706.4	16278.3	16348.1	12004.1	6413.7	3855.6	2841.7
75°	934.8	962.7	1120.9	1999.9	5334.6	9994.9	10255.3	5823.0	2279.0	1255.8	1023.2
77.5°	539.5	544.2	600.0	744.2	1581.3	3902.1	4060.3	1767.4	883.7	669.7	618.6
80°	367.4	362.8	423.2	483.7	632.5	1106.9	1176.7	739.5	558.1	465.1	390.7
82.5°	213.9	227.9	311.6	344.2	386.0	488.3	497.7	460.4	418.6	344.2	255.8
85°	130.2	107.0	172.1	190.7	223.2	218.6	218.6	251.2	269.8	241.8	144.2
87.5°	32.6	32.6	41.9	46.5	60.5	46.5	51.2	97.7	130.2	120.9	74.4
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°	4451.0	4451.0	4451.0	4451.0	4451.0	4451.0	4451.0	4451.0	4451.0	4451.0	4451.0
2.5°	4460.3	4446.3	4455.6	4506.8	4474.2	4376.5	4399.8	4451.0	4409.1	4385.8	4381.2
5°	4441.7	4469.6	4437.0	4446.3	4478.9	4399.8	4413.8	4478.9	4451.0	4460.3	4409.1
7.5°	4446.3	4460.3	4432.4	4390.5	4390.5	4455.6	4418.4	4427.7	4385.8	4455.6	4362.6
10°	4418.4	4381.2	4348.6	4371.9	4362.6	4344.0	4330.0	4357.9	4316.1	4376.5	4311.4
12.5°	4334.7	4344.0	4334.7	4325.4	4344.0	4390.5	4316.1	4325.4	4260.3	4269.6	4302.1
15°	4302.1	4330.0	4320.7	4371.9	4395.1	4325.4	4381.2	4325.4	4274.2	4246.3	4297.5
17.5°	4316.1	4357.9	4344.0	4381.2	4339.3	4390.5	4399.8	4376.5	4316.1	4292.8	4316.1
20°	4330.0	4316.1	4334.7	4399.8	4460.3	4409.1	4409.1	4395.1	4339.3	4306.8	4306.8
22.5°	4362.6	4339.3	4367.2	4418.4	4437.0	4516.1	4446.3	4413.8	4320.7	4237.0	4316.1
25°	4427.7	4441.7	4460.3	4441.7	4544.0	4534.7	4525.4	4502.1	4357.9	4362.6	4348.6
27.5°	4553.3	4474.2	4497.5	4609.1	4623.0	4660.3	4613.7	4655.6	4502.1	4506.8	4413.8
30°	4706.8	4623.0	4697.5	4795.1	4790.5	4860.2	4837.0	4846.3	4739.3	4678.9	4553.3
32.5°	4874.2	4864.9	4911.4	4971.9	4995.1	5032.3	5027.7	5027.7	4962.6	4804.4	4827.7
35°	5060.2	5125.3	5181.2	5246.3	5255.6	5302.1	5237.0	5246.3	5181.2	5064.9	5102.1
37.5°	5427.7	5423.0	5483.5	5562.5	5571.8	5534.6	5585.8	5562.5	5474.2	5395.1	5334.6
40°	5855.5	5762.5	5818.3	6004.4	6018.3	5953.2	5948.6	5943.9	5878.8	5706.7	5669.5
42.5°	6227.6	6348.5	6339.2	6399.7	6357.9	6325.3	6441.6	6376.5	6325.3	6143.9	6111.3
45°	6706.7	6743.9	6864.8	7060.1	6860.2	6860.2	6939.2	6888.1	6860.2	6725.3	6599.7
47.5°	7302.0	7334.5	7576.4	7590.4	7460.1	7371.8	7618.3	7627.6	7511.3	7409.0	7255.5
50°	7999.6	8013.6	8232.2	8455.4	8311.2	8143.8	8395.0	8492.6	8232.2	8092.7	7902.0
52.5°	8767.0	8725.2	8906.6	9325.2	9185.6	9134.5	9404.2	9427.5	9074.0	8855.4	8906.6
55°	9650.7	9594.9	10087.9	10371.6	10283.3	10190.2	10311.2	10367.0	10083.3	9725.1	9850.7
57.5°	10794.9	10822.8	11069.3	11348.3	11492.5	11515.8	11571.6	11515.8	11227.4	10864.6	10748.3
60°	11939.0	12022.7	12501.8	13027.3	13073.8	13483.1	13408.7	13129.6	12720.4	12204.1	12227.4
62.5°	12362.2	12292.5	13064.5	14348.2	15441.2	16190.0	15859.7	14869.1	13920.3	12980.8	13050.6
65°	11511.1	11683.2	12734.3	14743.5	17115.5	20078.2	18320.1	15580.7	13664.5	12450.6	12315.7
67.5°	9920.5	10050.7	11385.5	13506.4	17715.5	22468.7	19250.3	14576.1	12050.6	10478.6	10562.3
70°	6911.3	6976.4	8283.3	11064.6	16064.4	21203.7	17366.7	11194.8	8320.6	6632.3	6725.3
72.5°	2781.3	2939.4	3799.8	6664.8	11859.9	16110.9	11692.5	5874.2	3451.0	2567.3	2330.1
75°	1027.9	1032.5	1213.9	2292.9	5632.3	10125.1	5274.2	1888.3	1102.3	902.3	860.4
77.5°	595.3	590.7	632.5	827.9	1632.5	3953.3	1497.6	739.5	600.0	539.5	516.3
80°	372.1	367.4	432.5	548.8	716.2	1083.7	632.5	460.4	404.6	348.8	348.8
82.5°	237.2	241.8	339.5	404.6	437.2	479.0	367.4	325.6	302.3	200.0	195.3
85°	153.5	139.5	237.2	269.8	241.8	213.9	204.6	172.1	158.1	97.7	107.0
87.5°	69.8	74.4	120.9	134.9	88.4	51.2	51.2	37.2	37.2	23.3	23.3
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)