

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: P479421

Luminaire Tested: **IFLD-S-SA6C-760-U-5MQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479421
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-760-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

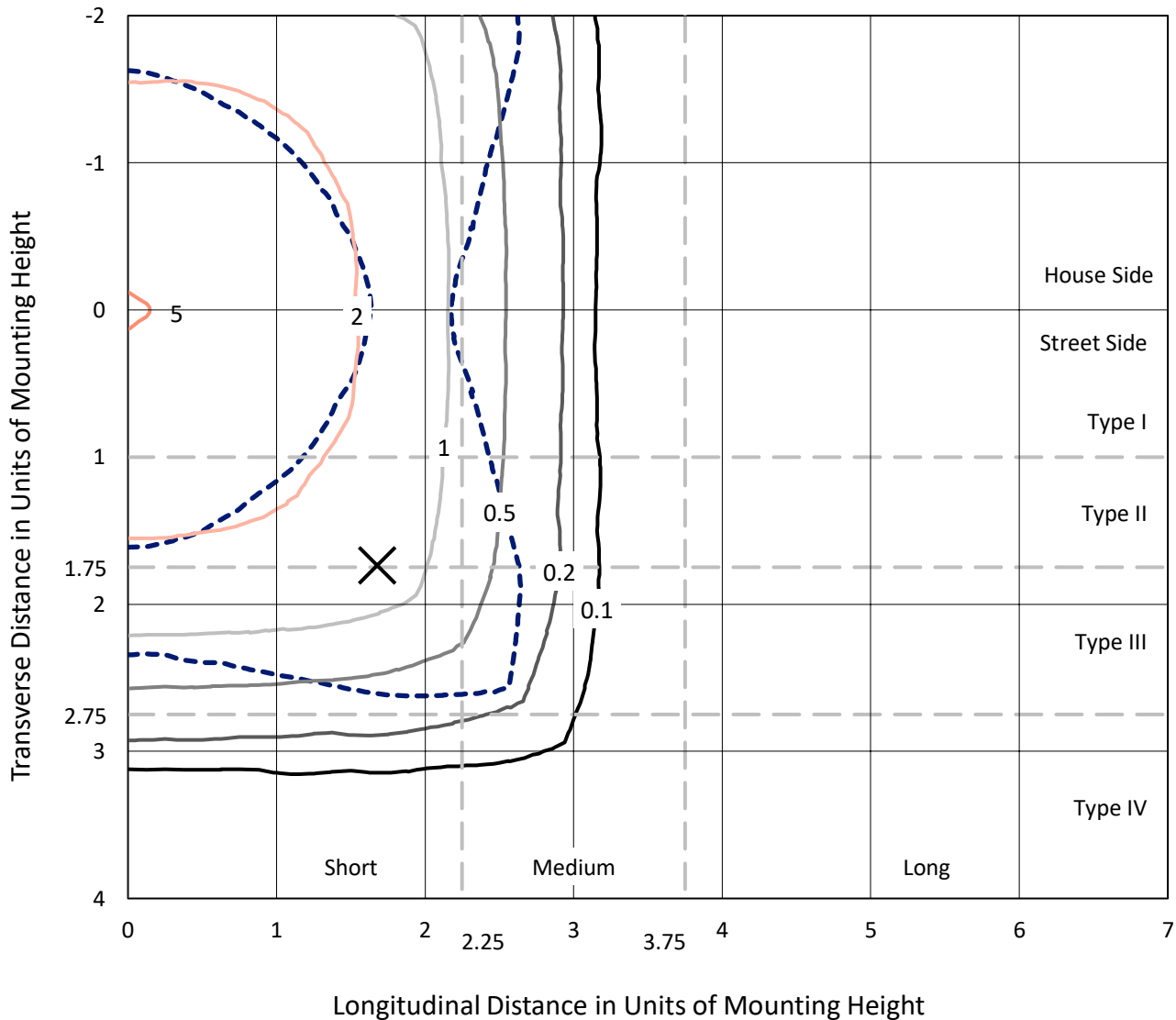
Lumens per Lamp: N/A
Luminaire Lumens: 42903.3 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (A_{in}): 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

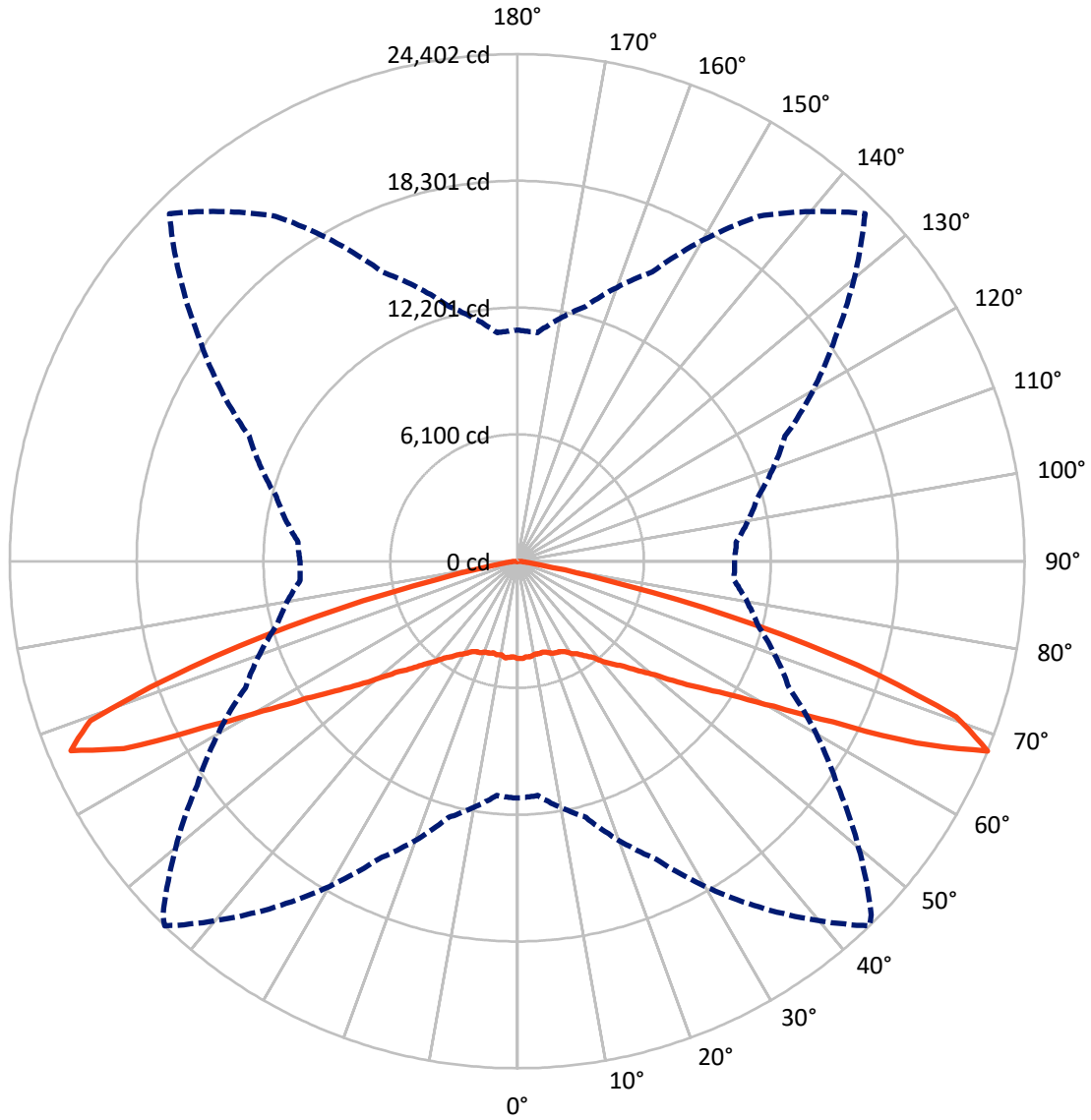
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 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	21396.7	0.0	21396.7
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	21506.6	0.0	21506.6
	% Fixture	50.1	0.0	50.1
Total	Lumens	42903.3	0.0	42903.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.5	1.0
10°-20°	1295.6	3.0
20°-30°	2203.3	5.1
30°-40°	3493.3	8.1
40°-50°	5696.2	13.3
50°-60°	9728.3	22.7
60°-70°	14796.7	34.5
70°-80°	4987.4	11.6
80°-90°	258.9	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°	42903.3	100.0
0°-180°	42903.3	100.0

Coefficient of Utilization

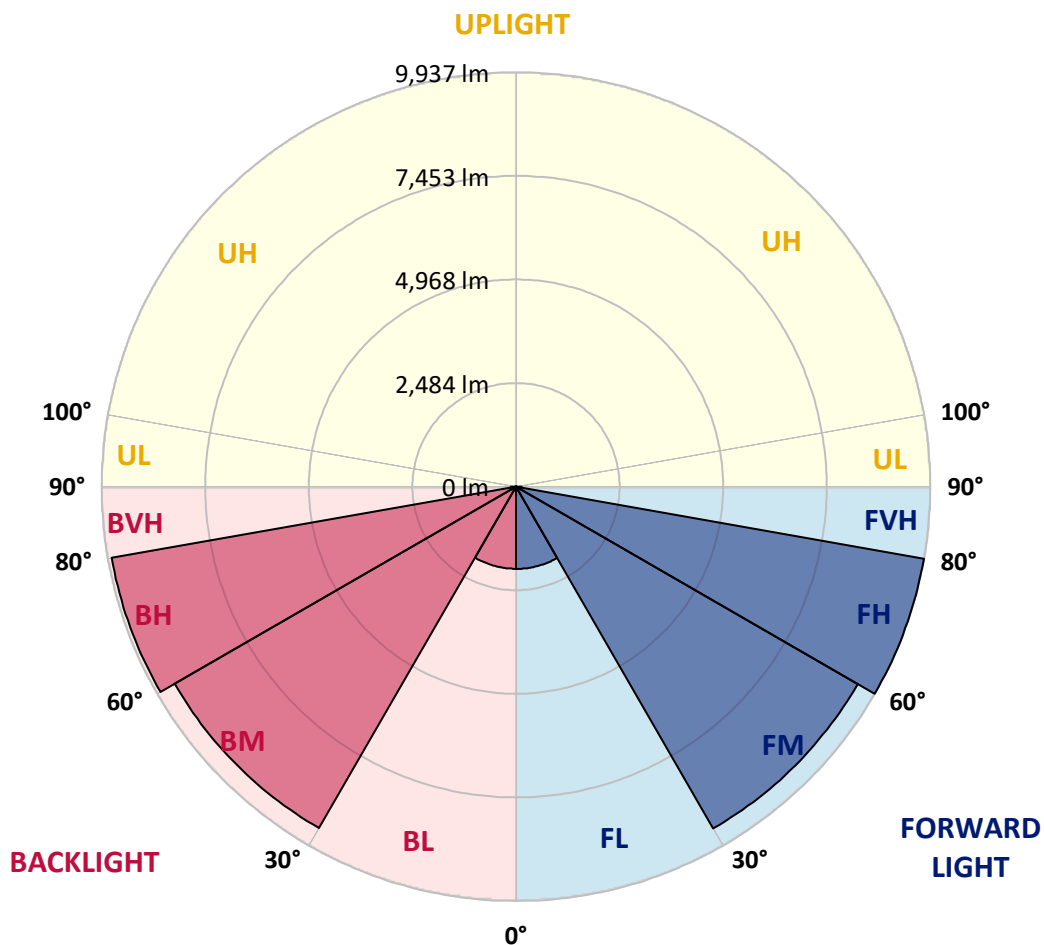


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1973.2	4.6			
FM (30°-60°)	9464.1	22.1			
FH (60°-80°)	9936.8	23.2			G4/12000
FVH (80°-90°)	132.5	0.3			G2/225
BL (0°-30°)	1969.1	4.6	B3/2500		
BM (30°-60°)	9453.8	22.0	B5		
BH (60°-80°)	9847.2	23.0	B5		G4/12000
BVH (80°-90°)	126.5	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°	4686.4	4686.4	4686.4	4686.4	4686.4	4686.4	4686.4	4686.4	4686.4	4686.4	4686.4
2.5°	4578.7	4632.6	4671.8	4666.9	4681.5	4696.2	4676.6	4706.0	4686.4	4720.7	4740.3
5°	4666.9	4652.2	4657.1	4627.7	4696.2	4617.9	4617.9	4657.1	4706.0	4647.3	4681.5
7.5°	4613.0	4603.2	4578.7	4622.8	4637.5	4637.5	4676.6	4603.2	4686.4	4706.0	4710.9
10°	4554.2	4500.4	4573.8	4617.9	4627.7	4549.3	4583.6	4603.2	4578.7	4603.2	4617.9
12.5°	4505.3	4534.6	4534.6	4534.6	4519.9	4573.8	4608.1	4603.2	4554.2	4598.3	4519.9
15°	4500.4	4485.7	4529.7	4568.9	4544.4	4554.2	4568.9	4613.0	4519.9	4539.5	4539.5
17.5°	4495.5	4515.0	4529.7	4524.8	4608.1	4608.1	4593.4	4564.0	4637.5	4598.3	4544.4
20°	4515.0	4500.4	4539.5	4554.2	4613.0	4730.5	4686.4	4662.0	4622.8	4573.8	4573.8
22.5°	4539.5	4529.7	4583.6	4647.3	4759.9	4789.3	4784.4	4755.0	4686.4	4627.7	4617.9
25°	4627.7	4539.5	4598.3	4720.7	4759.9	4818.7	4857.8	4818.7	4725.6	4740.3	4652.2
27.5°	4759.9	4745.2	4823.6	4906.8	4872.5	4926.4	4892.1	4921.5	4926.4	4852.9	4764.8
30°	4916.6	4872.5	4921.5	5083.1	5097.8	5156.6	5097.8	5019.4	5043.9	4980.3	4936.2
32.5°	5141.9	5127.2	5220.2	5327.9	5347.5	5318.2	5288.8	5332.8	5230.0	5181.0	5102.7
35°	5288.8	5352.4	5465.1	5548.3	5612.0	5582.6	5597.3	5553.2	5577.7	5474.9	5440.6
37.5°	5724.6	5700.1	5724.6	5866.6	5881.3	5866.6	5881.3	5930.3	5896.0	5807.9	5719.7
40°	6136.0	6096.8	6155.5	6317.1	6307.4	6356.3	6258.4	6312.2	6312.2	6145.8	6111.5
42.5°	6444.5	6576.7	6645.2	6777.5	6826.4	6782.4	6762.8	6772.6	6880.3	6684.4	6611.0
45°	7081.1	7076.2	7281.9	7355.3	7218.2	7208.4	7169.2	7286.8	7360.2	7247.6	7218.2
47.5°	7771.6	7805.8	7923.4	7952.7	8036.0	7884.2	7884.2	7898.9	8158.4	7894.0	7756.9
50°	8393.5	8437.6	8672.6	8902.8	8746.1	8584.5	8648.1	8726.5	8868.5	8618.7	8501.2
52.5°	9147.6	9387.6	9544.3	9666.7	9779.3	9666.7	9519.8	9607.9	9887.1	9554.1	9407.2
55°	10234.8	10425.7	10572.7	10797.9	10891.0	10739.1	10724.5	10714.7	10871.4	10518.8	10318.0
57.5°	11449.2	11370.9	11605.9	11953.6	12291.5	12144.6	12100.5	12110.3	12149.5	11650.0	11498.2
60°	12957.5	13045.6	13324.8	13628.4	13985.9	14191.5	13902.6	13736.1	13770.4	13089.7	12854.7
62.5°	13819.4	14015.3	14647.0	15690.0	16409.9	17051.4	17095.5	16013.2	15288.5	13966.3	12967.3
65°	13403.1	13373.7	14563.7	16493.1	19220.8	21086.5	20807.4	18182.6	15650.9	13550.0	12208.3
67.5°	11400.2	11321.9	12761.6	15822.2	20327.5	24401.8	24083.5	18794.7	14426.6	11987.9	10469.8
70°	7345.5	7325.9	8888.1	12061.3	18148.3	22403.8	22521.4	17071.0	11743.0	8780.3	7277.0
72.5°	2668.9	2830.5	3736.4	6483.6	12325.8	17139.5	17213.0	12639.2	6753.0	4059.6	2992.1
75°	984.3	1013.7	1180.2	2105.7	5616.9	10523.7	10797.9	6131.1	2399.5	1322.2	1077.3
77.5°	568.1	573.0	631.7	783.5	1665.0	4108.6	4275.1	1860.9	930.4	705.2	651.3
80°	386.9	382.0	445.6	509.3	666.0	1165.5	1238.9	778.6	587.6	489.7	411.3
82.5°	225.3	240.0	328.1	362.4	406.5	514.2	524.0	484.8	440.7	362.4	269.3
85°	137.1	112.6	181.2	200.8	235.1	230.2	230.2	264.4	284.0	254.6	151.8
87.5°	34.3	34.3	44.1	49.0	63.7	49.0	53.9	102.8	137.1	127.3	78.4
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°	4686.4	4686.4	4686.4	4686.4	4686.4	4686.4	4686.4	4686.4	4686.4	4686.4	4686.4
2.5°	4696.2	4681.5	4691.3	4745.2	4710.9	4608.1	4632.6	4686.4	4642.4	4617.9	4613.0
5°	4676.6	4706.0	4671.8	4681.5	4715.8	4632.6	4647.3	4715.8	4686.4	4696.2	4642.4
7.5°	4681.5	4696.2	4666.9	4622.8	4622.8	4691.3	4652.2	4662.0	4617.9	4691.3	4593.4
10°	4652.2	4613.0	4578.7	4603.2	4593.4	4573.8	4559.1	4588.5	4544.4	4608.1	4539.5
12.5°	4564.0	4573.8	4564.0	4554.2	4573.8	4622.8	4544.4	4554.2	4485.7	4495.5	4529.7
15°	4529.7	4559.1	4549.3	4603.2	4627.7	4554.2	4613.0	4554.2	4500.4	4471.0	4524.8
17.5°	4544.4	4588.5	4573.8	4613.0	4568.9	4622.8	4632.6	4608.1	4544.4	4519.9	4544.4
20°	4559.1	4544.4	4564.0	4632.6	4696.2	4642.4	4642.4	4627.7	4568.9	4534.6	4534.6
22.5°	4593.4	4568.9	4598.3	4652.2	4671.8	4755.0	4681.5	4647.3	4549.3	4461.2	4544.4
25°	4662.0	4676.6	4696.2	4676.6	4784.4	4774.6	4764.8	4740.3	4588.5	4593.4	4578.7
27.5°	4794.2	4710.9	4735.4	4852.9	4867.6	4906.8	4857.8	4901.9	4740.3	4745.2	4647.3
30°	4955.8	4867.6	4946.0	5048.8	5043.9	5117.4	5092.9	5102.7	4990.1	4926.4	4794.2
32.5°	5132.1	5122.3	5171.2	5234.9	5259.4	5298.6	5293.7	5293.7	5225.1	5058.6	5083.1
35°	5327.9	5396.5	5455.3	5523.8	5533.6	5582.6	5514.0	5523.8	5455.3	5332.8	5372.0
37.5°	5714.8	5709.9	5773.6	5856.8	5866.6	5827.4	5881.3	5856.8	5763.8	5680.5	5616.9
40°	6165.3	6067.4	6126.2	6322.0	6336.7	6268.2	6263.3	6258.4	6189.8	6008.6	5969.5
42.5°	6557.1	6684.4	6674.6	6738.3	6694.2	6659.9	6782.4	6713.8	6659.9	6469.0	6434.7
45°	7061.5	7100.7	7228.0	7433.7	7223.1	7223.1	7306.3	7252.5	7223.1	7081.1	6948.9
47.5°	7688.3	7722.6	7977.2	7991.9	7854.8	7761.8	8021.3	8031.1	7908.7	7800.9	7639.3
50°	8422.9	8437.6	8667.7	8902.8	8751.0	8574.7	8839.1	8941.9	8667.7	8520.8	8320.0
52.5°	9230.9	9186.8	9377.8	9818.5	9671.6	9617.7	9901.8	9926.2	9554.1	9323.9	9377.8
55°	10161.3	10102.5	10621.6	10920.3	10827.3	10729.4	10856.7	10915.4	10616.7	10239.7	10371.9
57.5°	11366.0	11395.3	11654.9	11948.7	12100.5	12125.0	12183.8	12125.0	11821.4	11439.4	11317.0
60°	12570.6	12658.8	13163.2	13716.5	13765.5	14196.4	14118.1	13824.3	13393.3	12849.8	12874.2
62.5°	13016.3	12942.8	13755.7	15107.3	16258.1	17046.5	16698.8	15655.7	14656.8	13667.6	13741.0
65°	12120.1	12301.3	13408.0	15523.5	18021.0	21140.4	19289.3	16405.0	14387.4	13109.3	12967.3
67.5°	10445.3	10582.4	11987.9	14220.9	18652.7	23657.5	20268.7	15347.2	12688.2	11033.0	11121.1
70°	7277.0	7345.5	8721.6	11650.0	16914.3	22325.5	18285.4	11787.1	8760.8	6983.1	7081.1
72.5°	2928.4	3094.9	4000.9	7017.4	12487.4	16963.3	12311.1	6184.9	3633.6	2703.2	2453.4
75°	1082.2	1087.1	1278.1	2414.2	5930.3	10660.8	5553.2	1988.2	1160.6	950.0	905.9
77.5°	626.8	621.9	666.0	871.7	1718.9	4162.5	1576.8	778.6	631.7	568.1	543.6
80°	391.8	386.9	455.4	577.8	754.1	1141.0	666.0	484.8	426.0	367.3	367.3
82.5°	249.7	254.6	357.5	426.0	460.3	504.4	386.9	342.8	318.3	210.6	205.7
85°	161.6	146.9	249.7	284.0	254.6	225.3	215.5	181.2	166.5	102.8	112.6
87.5°	73.5	78.4	127.3	142.0	93.0	53.9	53.9	39.2	39.2	24.5	24.5
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)