

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: P479501

Luminaire Tested: **IFLD-S-SA6E-830-U-5MQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479501
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-830-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

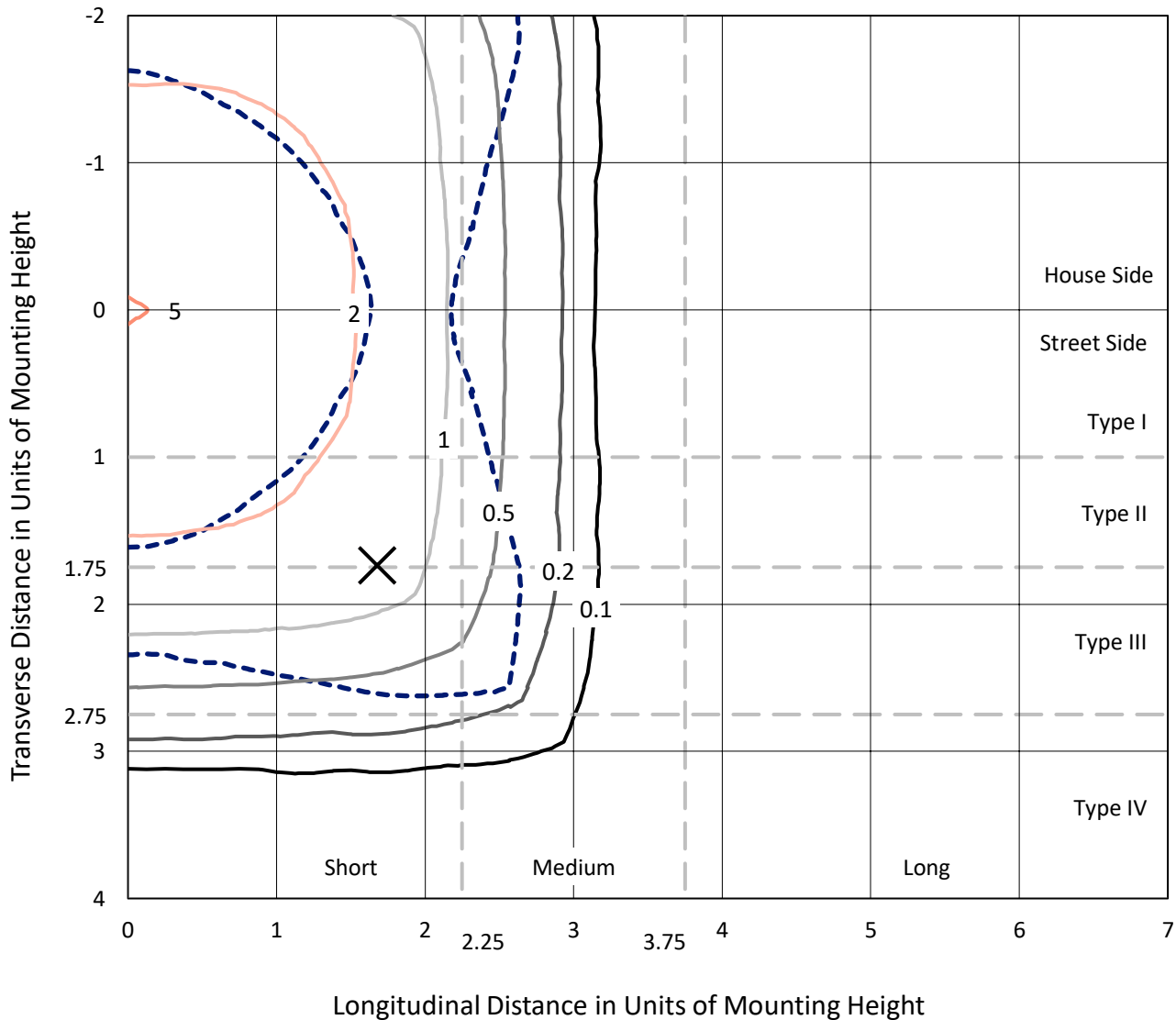
Lumens per Lamp: N/A
Luminaire Lumens: 42440.2 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 464.2
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

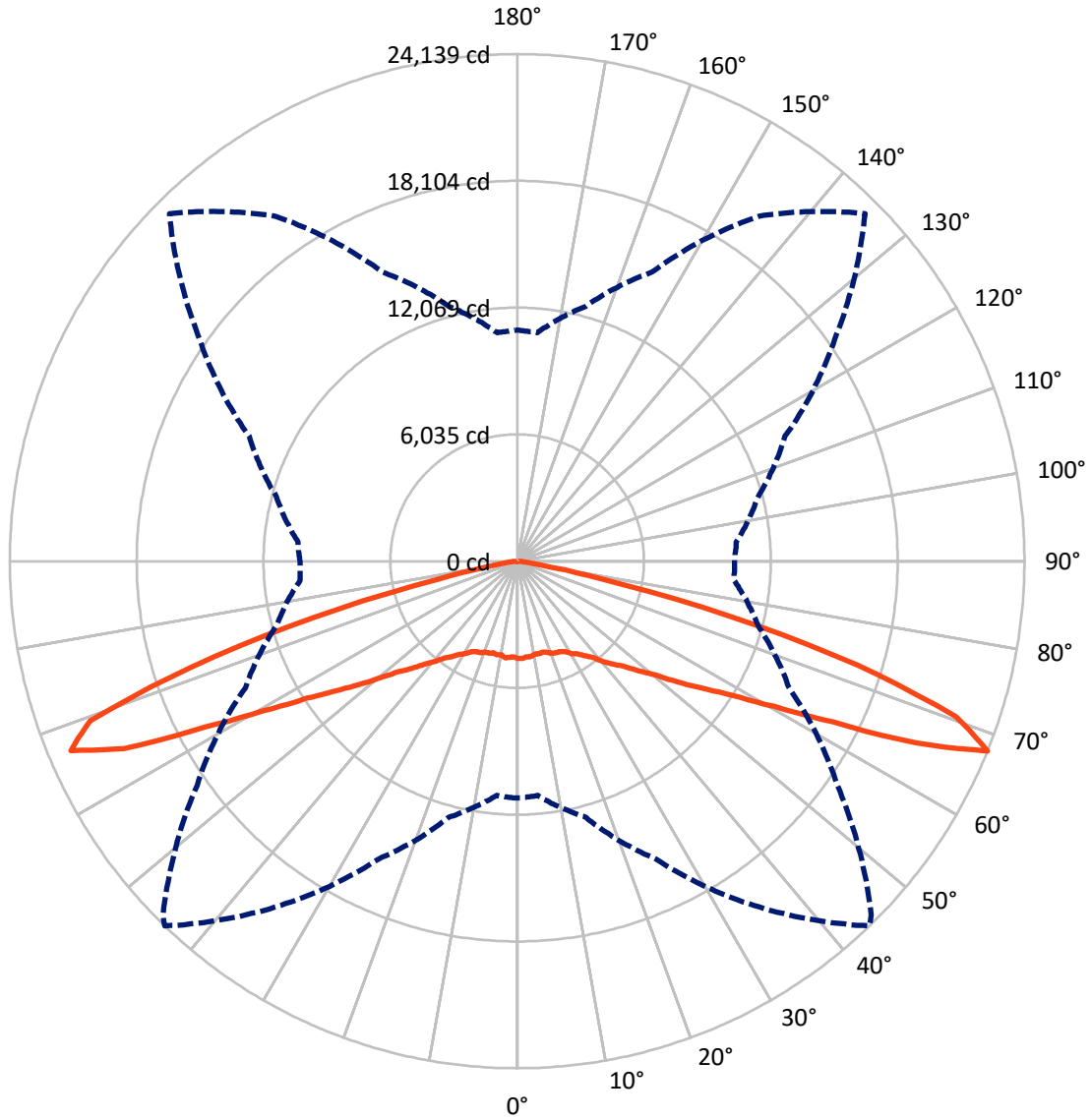
✕ Max cd
 - - - 1/2 Max cd



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	21165.8	0.0	21165.8
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	21274.5	0.0	21274.5
	% Fixture	50.1	0.0	50.1
Total	Lumens	42440.2	0.0	42440.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.7	1.0
10°-20°	1281.6	3.0
20°-30°	2179.5	5.1
30°-40°	3455.6	8.1
40°-50°	5634.7	13.3
50°-60°	9623.3	22.7
60°-70°	14637.0	34.5
70°-80°	4933.6	11.6
80°-90°	256.1	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°	42440.2	100.0
0°-180°	42440.2	100.0

Coefficient of Utilization

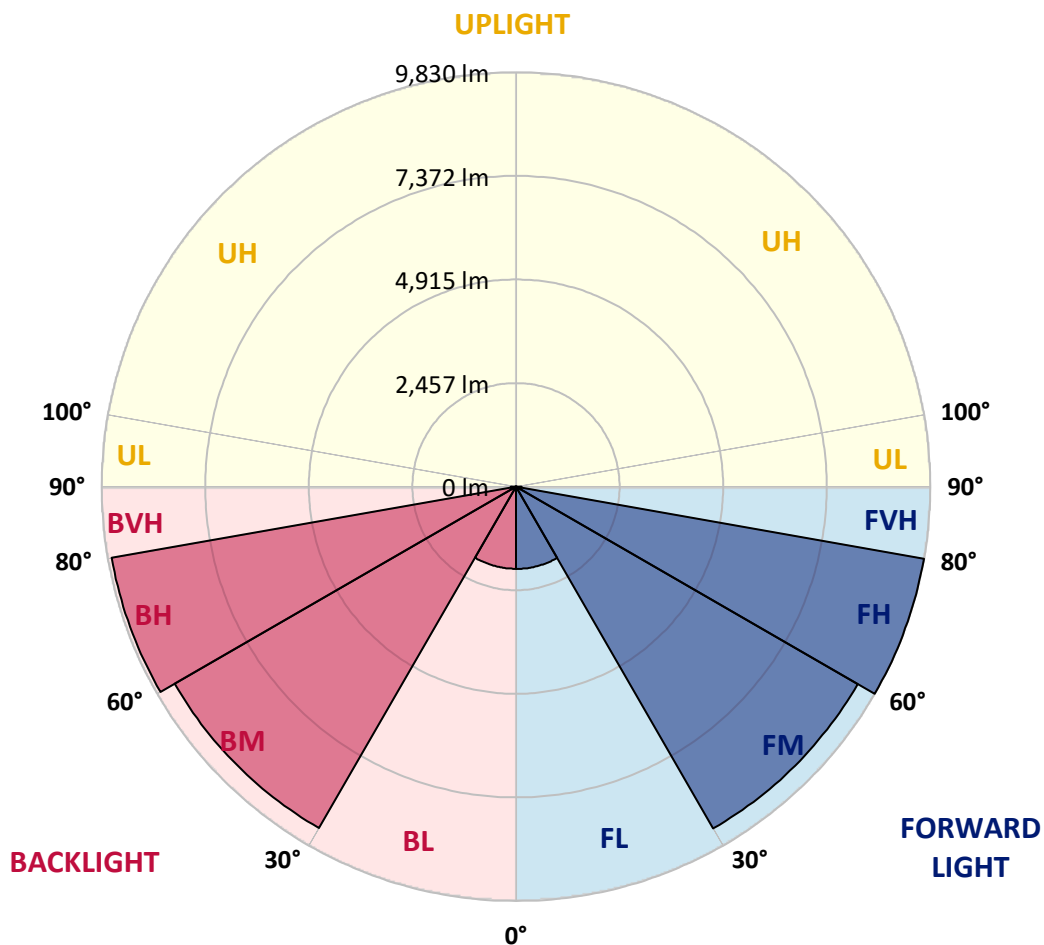


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1951.9	4.6			
FM (30°-60°)	9361.9	22.1			
FH (60°-80°)	9829.6	23.2			G4/12000
FVH (80°-90°)	131.0	0.3			G2/225
BL (0°-30°)	1947.9	4.6	B3/2500		
BM (30°-60°)	9351.8	22.0	B5		
BH (60°-80°)	9741.0	23.0	B5		G4/12000
BVH (80°-90°)	125.1	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°	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9
2.5°	4529.3	4582.6	4621.3	4616.5	4631.0	4645.6	4626.2	4655.2	4635.9	4669.8	4689.1
5°	4616.5	4602.0	4606.8	4577.7	4645.6	4568.0	4568.0	4606.8	4655.2	4597.1	4631.0
7.5°	4563.2	4553.5	4529.3	4572.9	4587.4	4587.4	4626.2	4553.5	4635.9	4655.2	4660.1
10°	4505.1	4451.8	4524.4	4568.0	4577.7	4500.2	4534.1	4553.5	4529.3	4553.5	4568.0
12.5°	4456.6	4485.7	4485.7	4485.7	4471.2	4524.4	4558.4	4553.5	4505.1	4548.7	4471.2
15°	4451.8	4437.3	4480.9	4519.6	4495.4	4505.1	4519.6	4563.2	4471.2	4490.5	4490.5
17.5°	4446.9	4466.3	4480.9	4476.0	4558.4	4558.4	4543.8	4514.8	4587.4	4548.7	4495.4
20°	4466.3	4451.8	4490.5	4505.1	4563.2	4679.5	4635.9	4611.6	4572.9	4524.4	4524.4
22.5°	4490.5	4480.9	4534.1	4597.1	4708.5	4737.6	4732.7	4703.7	4635.9	4577.7	4568.0
25°	4577.7	4490.5	4548.7	4669.8	4708.5	4766.7	4805.4	4766.7	4674.6	4689.1	4602.0
27.5°	4708.5	4694.0	4771.5	4853.9	4819.9	4873.2	4839.3	4868.4	4873.2	4800.6	4713.4
30°	4863.5	4819.9	4868.4	5028.2	5042.8	5100.9	5042.8	4965.3	4989.5	4926.5	4882.9
32.5°	5086.4	5071.8	5163.9	5270.4	5289.8	5260.8	5231.7	5275.3	5173.6	5125.1	5047.6
35°	5231.7	5294.7	5406.1	5488.4	5551.4	5522.3	5536.9	5493.3	5517.5	5415.8	5381.9
37.5°	5662.8	5638.6	5662.8	5803.3	5817.8	5803.3	5817.8	5866.3	5832.4	5745.2	5658.0
40°	6069.7	6031.0	6089.1	6249.0	6239.3	6287.7	6190.8	6244.1	6244.1	6079.4	6045.5
42.5°	6374.9	6505.7	6573.5	6704.3	6752.8	6709.2	6689.8	6699.5	6806.0	6612.3	6539.6
45°	7004.7	6999.8	7203.3	7275.9	7140.3	7130.6	7091.9	7208.1	7280.8	7169.4	7140.3
47.5°	7687.7	7721.6	7837.9	7866.9	7949.3	7799.1	7799.1	7813.6	8070.4	7808.8	7673.2
50°	8302.9	8346.5	8579.0	8806.7	8651.7	8491.8	8554.8	8632.3	8772.8	8525.7	8409.5
52.5°	9048.9	9286.3	9441.3	9562.4	9673.8	9562.4	9417.1	9504.2	9780.4	9451.0	9305.6
55°	10124.3	10313.2	10458.5	10681.4	10773.4	10623.2	10608.7	10599.0	10754.0	10405.3	10206.7
57.5°	11325.7	11248.1	11480.7	11824.6	12158.8	12013.5	11969.9	11979.6	12018.4	11524.3	11374.1
60°	12817.7	12904.8	13181.0	13481.3	13834.9	14038.4	13752.6	13587.9	13621.8	12948.4	12715.9
62.5°	13670.2	13864.0	14488.9	15520.7	16232.8	16867.4	16911.0	15840.4	15123.5	13815.6	12827.3
65°	13258.5	13229.4	14406.5	16315.1	19013.3	20859.0	20582.8	17986.4	15481.9	13403.8	12076.5
67.5°	11277.2	11199.7	12623.9	15651.5	20108.1	24138.5	23823.6	18591.9	14270.9	11858.5	10356.8
70°	7266.2	7246.9	8792.2	11931.2	17952.5	22162.0	22278.3	16886.8	11616.3	8685.6	7198.4
72.5°	2640.1	2799.9	3696.1	6413.7	12192.8	16954.6	17027.2	12502.8	6680.1	4015.8	2959.8
75°	973.7	1002.7	1167.4	2083.0	5556.3	10410.1	10681.4	6064.9	2373.6	1307.9	1065.7
77.5°	561.9	566.8	624.9	775.1	1647.0	4064.3	4229.0	1840.8	920.4	697.6	644.3
80°	382.7	377.8	440.8	503.8	658.8	1152.9	1225.6	770.2	581.3	484.4	406.9
82.5°	222.8	237.4	324.6	358.5	402.1	508.6	518.3	479.6	436.0	358.5	266.4
85°	135.6	111.4	179.2	198.6	232.5	227.7	227.7	261.6	281.0	251.9	150.2
87.5°	33.9	33.9	43.6	48.4	63.0	48.4	53.3	101.7	135.6	125.9	77.5
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°	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9
2.5°	4645.6	4631.0	4640.7	4694.0	4660.1	4558.4	4582.6	4635.9	4592.3	4568.0	4563.2
5°	4626.2	4655.2	4621.3	4631.0	4664.9	4582.6	4597.1	4664.9	4635.9	4645.6	4592.3
7.5°	4631.0	4645.6	4616.5	4572.9	4572.9	4640.7	4602.0	4611.6	4568.0	4640.7	4543.8
10°	4602.0	4563.2	4529.3	4553.5	4543.8	4524.4	4509.9	4539.0	4495.4	4558.4	4490.5
12.5°	4514.8	4524.4	4514.8	4505.1	4524.4	4572.9	4495.4	4505.1	4437.3	4446.9	4480.9
15°	4480.9	4509.9	4500.2	4553.5	4577.7	4505.1	4563.2	4505.1	4451.8	4422.7	4476.0
17.5°	4495.4	4539.0	4524.4	4563.2	4519.6	4572.9	4582.6	4558.4	4495.4	4471.2	4495.4
20°	4509.9	4495.4	4514.8	4582.6	4645.6	4592.3	4592.3	4577.7	4519.6	4485.7	4485.7
22.5°	4543.8	4519.6	4548.7	4602.0	4621.3	4703.7	4631.0	4597.1	4500.2	4413.0	4495.4
25°	4611.6	4626.2	4645.6	4626.2	4732.7	4723.1	4713.4	4689.1	4539.0	4543.8	4529.3
27.5°	4742.4	4660.1	4684.3	4800.6	4815.1	4853.9	4805.4	4849.0	4689.1	4694.0	4597.1
30°	4902.3	4815.1	4892.6	4994.3	4989.5	5062.2	5037.9	5047.6	4936.2	4873.2	4742.4
32.5°	5076.7	5067.0	5115.4	5178.4	5202.6	5241.4	5236.5	5236.5	5168.7	5004.0	5028.2
35°	5270.4	5338.3	5396.4	5464.2	5473.9	5522.3	5454.5	5464.2	5396.4	5275.3	5314.0
37.5°	5653.1	5648.3	5711.3	5793.6	5803.3	5764.6	5817.8	5793.6	5701.6	5619.2	5556.3
40°	6098.8	6001.9	6060.0	6253.8	6268.3	6200.5	6195.7	6190.8	6123.0	5943.8	5905.0
42.5°	6486.3	6612.3	6602.6	6665.6	6622.0	6588.1	6709.2	6641.3	6588.1	6399.1	6365.2
45°	6985.3	7024.0	7150.0	7353.4	7145.1	7145.1	7227.5	7174.2	7145.1	7004.7	6873.9
47.5°	7605.3	7639.2	7891.1	7905.7	7770.0	7678.0	7934.7	7944.4	7823.3	7716.8	7556.9
50°	8332.0	8346.5	8574.2	8806.7	8656.5	8482.1	8743.7	8845.4	8574.2	8428.8	8230.2
52.5°	9131.2	9087.6	9276.6	9712.5	9567.2	9513.9	9794.9	9819.1	9451.0	9223.3	9276.6
55°	10051.6	9993.5	10507.0	10802.5	10710.4	10613.6	10739.5	10797.6	10502.1	10129.1	10259.9
57.5°	11243.3	11272.4	11529.1	11819.8	11969.9	11994.1	12052.3	11994.1	11693.8	11316.0	11194.9
60°	12435.0	12522.2	13021.1	13568.5	13616.9	14043.2	13965.7	13675.1	13248.8	12711.1	12735.3
62.5°	12875.8	12803.1	13607.3	14944.2	16082.6	16862.5	16518.6	15486.8	14498.6	13520.1	13592.7
65°	11989.3	12168.5	13263.3	15356.0	17826.5	20912.3	19081.2	16227.9	14232.2	12967.8	12827.3
67.5°	10332.6	10468.2	11858.5	14067.4	18451.4	23402.2	20050.0	15181.6	12551.2	10913.9	11001.1
70°	7198.4	7266.2	8627.5	11524.3	16731.7	22084.5	18088.1	11659.9	8666.2	6907.8	7004.7
72.5°	2896.8	3061.5	3957.7	6941.7	12352.6	16780.2	12178.2	6118.2	3594.4	2674.0	2426.9
75°	1070.6	1075.4	1264.3	2388.2	5866.3	10545.7	5493.3	1966.7	1148.1	939.8	896.2
77.5°	620.1	615.2	658.8	862.3	1700.3	4117.5	1559.8	770.2	624.9	561.9	537.7
80°	387.5	382.7	450.5	571.6	746.0	1128.7	658.8	479.6	421.4	363.3	363.3
82.5°	247.1	251.9	353.6	421.4	455.4	498.9	382.7	339.1	314.9	208.3	203.5
85°	159.9	145.3	247.1	281.0	251.9	222.8	213.1	179.2	164.7	101.7	111.4
87.5°	72.7	77.5	125.9	140.5	92.0	53.3	53.3	38.8	38.8	24.2	24.2
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)