

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: P479303

Luminaire Tested: **IFLD-S-SA6B-735-U-5MQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479303
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-735-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

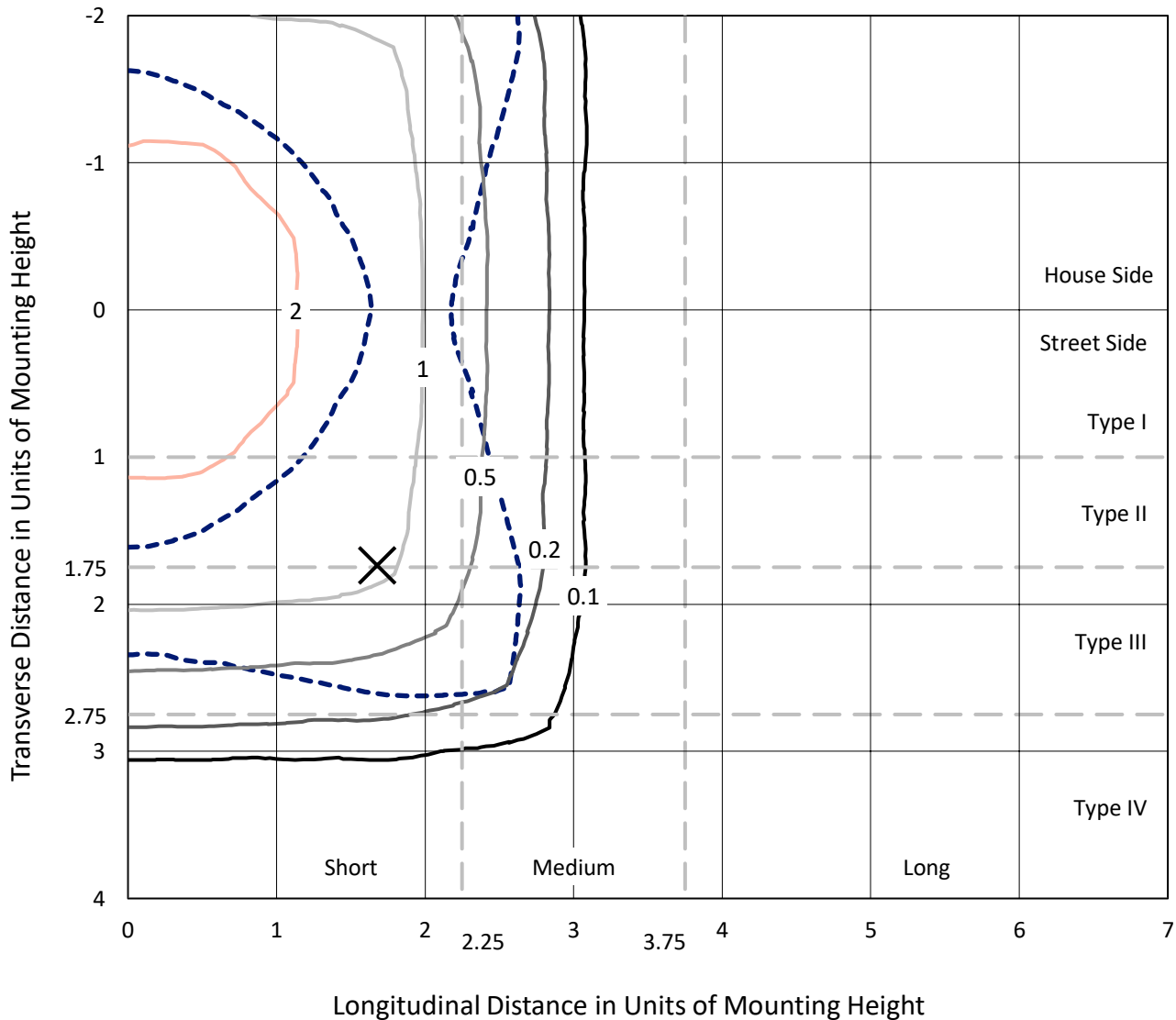
Lumens per Lamp: N/A
Luminaire Lumens: 33232.1 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 244.9
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

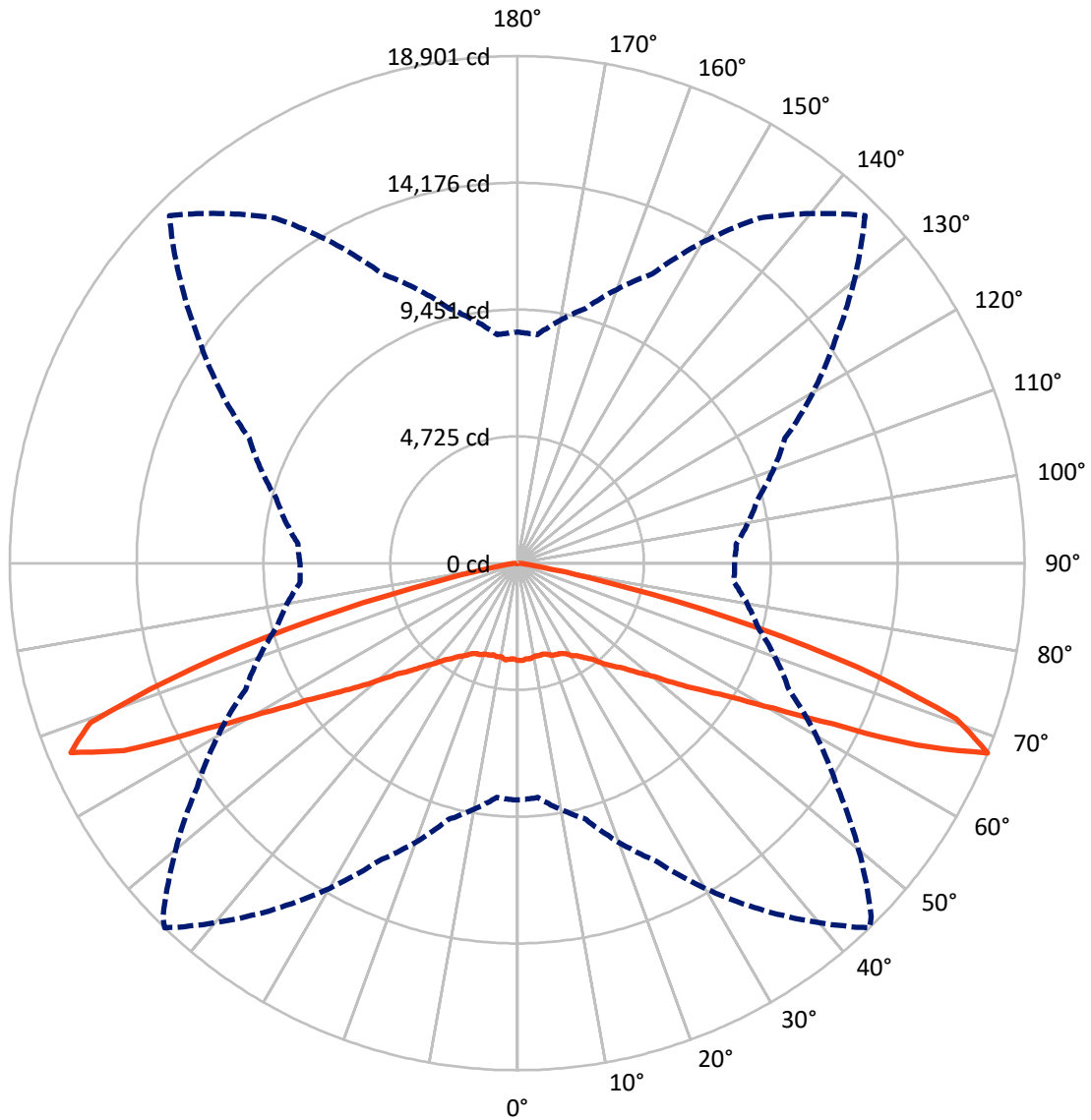
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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	16573.5	0.0	16573.5
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	16658.6	0.0	16658.6
	% Fixture	50.1	0.0	50.1
Total	Lumens	33232.1	0.0	33232.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.5	1.0
10°-20°	1003.6	3.0
20°-30°	1706.6	5.1
30°-40°	2705.9	8.1
40°-50°	4412.2	13.3
50°-60°	7535.4	22.7
60°-70°	11461.3	34.5
70°-80°	3863.2	11.6
80°-90°	200.6	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°	33232.1	100.0
0°-180°	33232.1	100.0

Coefficient of Utilization

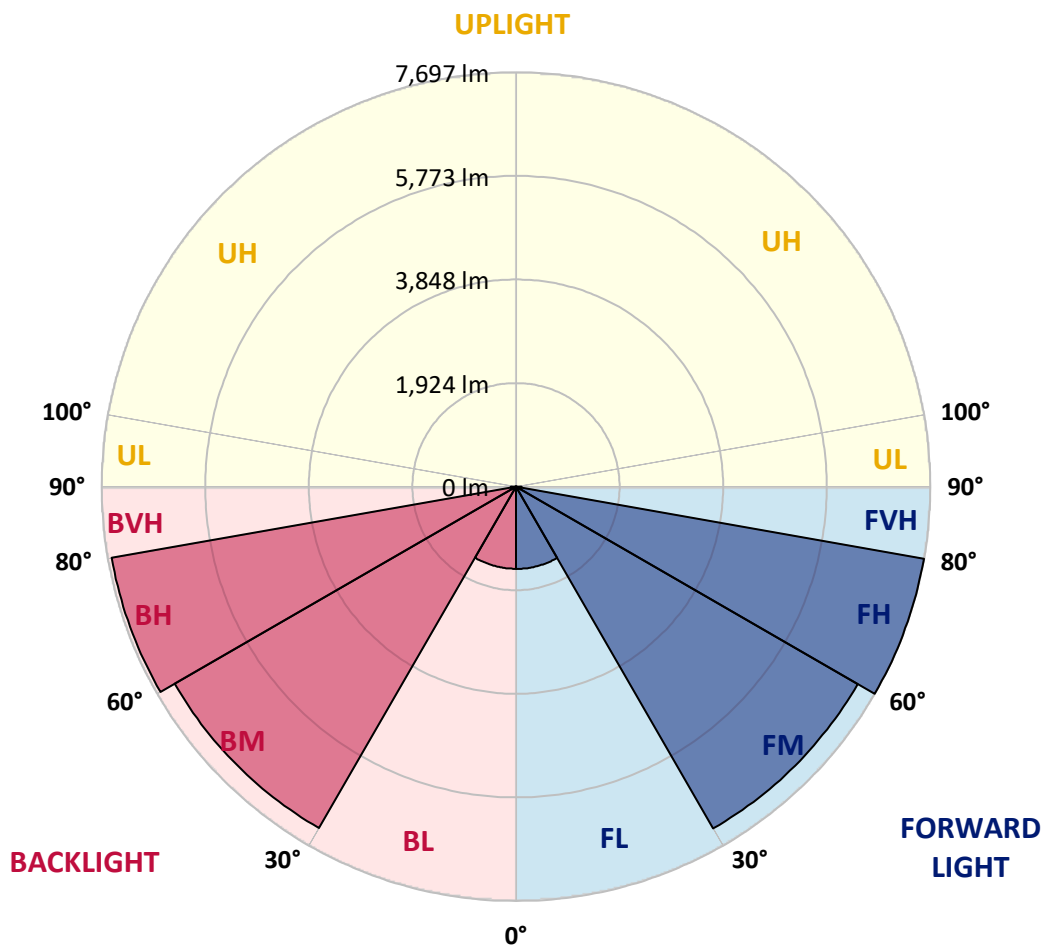


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1528.4	4.6			
FM (30°-60°)	7330.7	22.1			
FH (60°-80°)	7696.9	23.2			G4/12000
FVH (80°-90°)	102.6	0.3			G2/225
BL (0°-30°)	1525.3	4.6	B3/2500		
BM (30°-60°)	7322.8	22.0	B4/8500		
BH (60°-80°)	7627.5	23.0	B5		G4/12000
BVH (80°-90°)	98.0	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°	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0
2.5°	3546.6	3588.3	3618.7	3614.9	3626.2	3637.6	3622.5	3645.2	3630.0	3656.6	3671.8
5°	3614.9	3603.5	3607.3	3584.5	3637.6	3576.9	3576.9	3607.3	3645.2	3599.7	3626.2
7.5°	3573.1	3565.6	3546.6	3580.7	3592.1	3592.1	3622.5	3565.6	3630.0	3645.2	3649.0
10°	3527.6	3485.9	3542.8	3576.9	3584.5	3523.8	3550.4	3565.6	3546.6	3565.6	3576.9
12.5°	3489.7	3512.4	3512.4	3512.4	3501.1	3542.8	3569.3	3565.6	3527.6	3561.8	3501.1
15°	3485.9	3474.5	3508.7	3539.0	3520.0	3527.6	3539.0	3573.1	3501.1	3516.2	3516.2
17.5°	3482.1	3497.3	3508.7	3504.9	3569.3	3569.3	3558.0	3535.2	3592.1	3561.8	3520.0
20°	3497.3	3485.9	3516.2	3527.6	3573.1	3664.2	3630.0	3611.1	3580.7	3542.8	3542.8
22.5°	3516.2	3508.7	3550.4	3599.7	3686.9	3709.7	3705.9	3683.1	3630.0	3584.5	3576.9
25°	3584.5	3516.2	3561.8	3656.6	3686.9	3732.5	3762.8	3732.5	3660.4	3671.8	3603.5
27.5°	3686.9	3675.6	3736.2	3800.7	3774.2	3815.9	3789.3	3812.1	3815.9	3759.0	3690.7
30°	3808.3	3774.2	3812.1	3937.3	3948.7	3994.2	3948.7	3888.0	3906.9	3857.6	3823.5
32.5°	3982.8	3971.4	4043.5	4126.9	4142.1	4119.4	4096.6	4130.7	4051.1	4013.1	3952.5
35°	4096.6	4145.9	4233.1	4297.6	4346.9	4324.2	4335.6	4301.4	4320.4	4240.7	4214.2
37.5°	4434.2	4415.2	4434.2	4544.2	4555.6	4544.2	4555.6	4593.5	4566.9	4498.7	4430.4
40°	4752.8	4722.5	4768.0	4893.2	4885.6	4923.5	4847.6	4889.4	4889.4	4760.4	4733.8
42.5°	4991.8	5094.2	5147.3	5249.7	5287.6	5253.5	5238.3	5245.9	5329.4	5177.6	5120.7
45°	5484.9	5481.1	5640.4	5697.3	5591.1	5583.5	5553.2	5644.2	5701.1	5613.9	5591.1
47.5°	6019.7	6046.3	6137.3	6160.1	6224.5	6107.0	6107.0	6118.3	6319.4	6114.5	6008.3
50°	6501.4	6535.6	6717.7	6895.9	6774.6	6649.4	6698.7	6759.4	6869.4	6675.9	6584.9
52.5°	7085.6	7271.5	7392.8	7487.7	7574.9	7487.7	7373.9	7442.1	7658.4	7400.4	7286.6
55°	7927.7	8075.6	8189.4	8363.9	8435.9	8318.4	8307.0	8299.4	8420.8	8147.7	7992.2
57.5°	8868.4	8807.7	8989.7	9259.1	9520.8	9407.0	9372.9	9380.4	9410.8	9023.9	8906.3
60°	10036.7	10104.9	10321.1	10556.3	10833.2	10992.5	10768.7	10639.8	10666.3	10139.1	9957.0
62.5°	10704.2	10856.0	11345.3	12153.2	12710.8	13207.7	13241.9	12403.6	11842.2	10818.0	10044.2
65°	10381.8	10359.1	11280.8	12775.3	14888.1	16333.3	16117.1	14083.9	12122.9	10495.6	9456.3
67.5°	8830.4	8769.7	9884.9	12255.6	15745.3	18901.2	18654.7	14558.1	11174.6	9285.6	8109.7
70°	5689.7	5674.5	6884.6	9342.5	14057.4	17353.6	17444.7	13222.9	9096.0	6801.1	5636.6
72.5°	2067.3	2192.4	2894.2	5022.1	9547.3	13276.0	13332.9	9790.1	5230.7	3144.5	2317.6
75°	762.4	785.2	914.1	1631.1	4350.7	8151.5	8363.9	4749.0	1858.6	1024.1	834.5
77.5°	440.0	443.8	489.3	606.9	1289.7	3182.4	3311.4	1441.4	720.7	546.2	504.5
80°	299.7	295.9	345.2	394.5	515.9	902.8	959.7	603.1	455.2	379.3	318.6
82.5°	174.5	185.9	254.1	280.7	314.8	398.3	405.9	375.5	341.4	280.7	208.6
85°	106.2	87.2	140.3	155.5	182.1	178.3	178.3	204.8	220.0	197.2	117.6
87.5°	26.6	26.6	34.1	37.9	49.3	37.9	41.7	79.7	106.2	98.6	60.7
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°	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0
2.5°	3637.6	3626.2	3633.8	3675.6	3649.0	3569.3	3588.3	3630.0	3595.9	3576.9	3573.1
5°	3622.5	3645.2	3618.7	3626.2	3652.8	3588.3	3599.7	3652.8	3630.0	3637.6	3595.9
7.5°	3626.2	3637.6	3614.9	3580.7	3580.7	3633.8	3603.5	3611.1	3576.9	3633.8	3558.0
10°	3603.5	3573.1	3546.6	3565.6	3558.0	3542.8	3531.4	3554.2	3520.0	3569.3	3516.2
12.5°	3535.2	3542.8	3535.2	3527.6	3542.8	3580.7	3520.0	3527.6	3474.5	3482.1	3508.7
15°	3508.7	3531.4	3523.8	3565.6	3584.5	3527.6	3573.1	3527.6	3485.9	3463.1	3504.9
17.5°	3520.0	3554.2	3542.8	3573.1	3539.0	3580.7	3588.3	3569.3	3520.0	3501.1	3520.0
20°	3531.4	3520.0	3535.2	3588.3	3637.6	3595.9	3595.9	3584.5	3539.0	3512.4	3512.4
22.5°	3558.0	3539.0	3561.8	3603.5	3618.7	3683.1	3626.2	3599.7	3523.8	3455.6	3520.0
25°	3611.1	3622.5	3637.6	3622.5	3705.9	3698.3	3690.7	3671.8	3554.2	3558.0	3546.6
27.5°	3713.5	3649.0	3668.0	3759.0	3770.4	3800.7	3762.8	3796.9	3671.8	3675.6	3599.7
30°	3838.7	3770.4	3831.1	3910.7	3906.9	3963.8	3944.9	3952.5	3865.2	3815.9	3713.5
32.5°	3975.2	3967.6	4005.6	4054.9	4073.8	4104.2	4100.4	4100.4	4047.3	3918.3	3937.3
35°	4126.9	4180.0	4225.6	4278.7	4286.3	4324.2	4271.1	4278.7	4225.6	4130.7	4161.1
37.5°	4426.6	4422.8	4472.1	4536.6	4544.2	4513.8	4555.6	4536.6	4464.5	4400.0	4350.7
40°	4775.6	4699.7	4745.2	4896.9	4908.3	4855.2	4851.4	4847.6	4794.5	4654.2	4623.8
42.5°	5079.0	5177.6	5170.1	5219.4	5185.2	5158.7	5253.5	5200.4	5158.7	5010.7	4984.2
45°	5469.7	5500.1	5598.7	5758.0	5594.9	5594.9	5659.4	5617.6	5594.9	5484.9	5382.5
47.5°	5955.2	5981.8	6179.0	6190.4	6084.2	6012.1	6213.2	6220.8	6125.9	6042.5	5917.3
50°	6524.2	6535.6	6713.9	6895.9	6778.3	6641.8	6846.6	6926.3	6713.9	6600.1	6444.5
52.5°	7150.1	7115.9	7263.9	7605.3	7491.5	7449.7	7669.7	7688.7	7400.4	7222.1	7263.9
55°	7870.8	7825.3	8227.3	8458.7	8386.6	8310.8	8409.4	8454.9	8223.5	7931.5	8033.9
57.5°	8803.9	8826.6	9027.7	9255.3	9372.9	9391.8	9437.3	9391.8	9156.6	8860.8	8766.0
60°	9737.0	9805.3	10196.0	10624.6	10662.5	10996.3	10935.6	10708.0	10374.2	9953.2	9972.2
62.5°	10082.2	10025.3	10654.9	11701.8	12593.2	13203.9	12934.6	12126.7	11352.9	10586.7	10643.6
65°	9388.0	9528.4	10385.6	12024.3	13958.8	16375.0	14941.2	12707.0	11144.3	10154.2	10044.2
67.5°	8090.8	8197.0	9285.6	11015.3	14448.1	18324.7	15699.8	11887.7	9828.0	8545.9	8614.2
70°	5636.6	5689.7	6755.6	9023.9	13101.5	17292.9	14163.6	9130.1	6785.9	5409.0	5484.9
72.5°	2268.3	2397.3	3099.0	5435.6	9672.5	13139.4	9536.0	4790.7	2814.5	2093.8	1900.4
75°	838.3	842.1	990.0	1870.0	4593.5	8257.7	4301.4	1540.0	899.0	735.9	701.7
77.5°	485.5	481.7	515.9	675.2	1331.4	3224.2	1221.4	603.1	489.3	440.0	421.0
80°	303.5	299.7	352.8	447.6	584.1	883.8	515.9	375.5	330.0	284.5	284.5
82.5°	193.5	197.2	276.9	330.0	356.6	390.7	299.7	265.5	246.6	163.1	159.3
85°	125.2	113.8	193.5	220.0	197.2	174.5	166.9	140.3	129.0	79.7	87.2
87.5°	56.9	60.7	98.6	110.0	72.1	41.7	41.7	30.3	30.3	19.0	19.0
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)