

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: P479342

Luminaire Tested: **IFLD-S-SA6B-740-U-5MQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479342
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-740-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

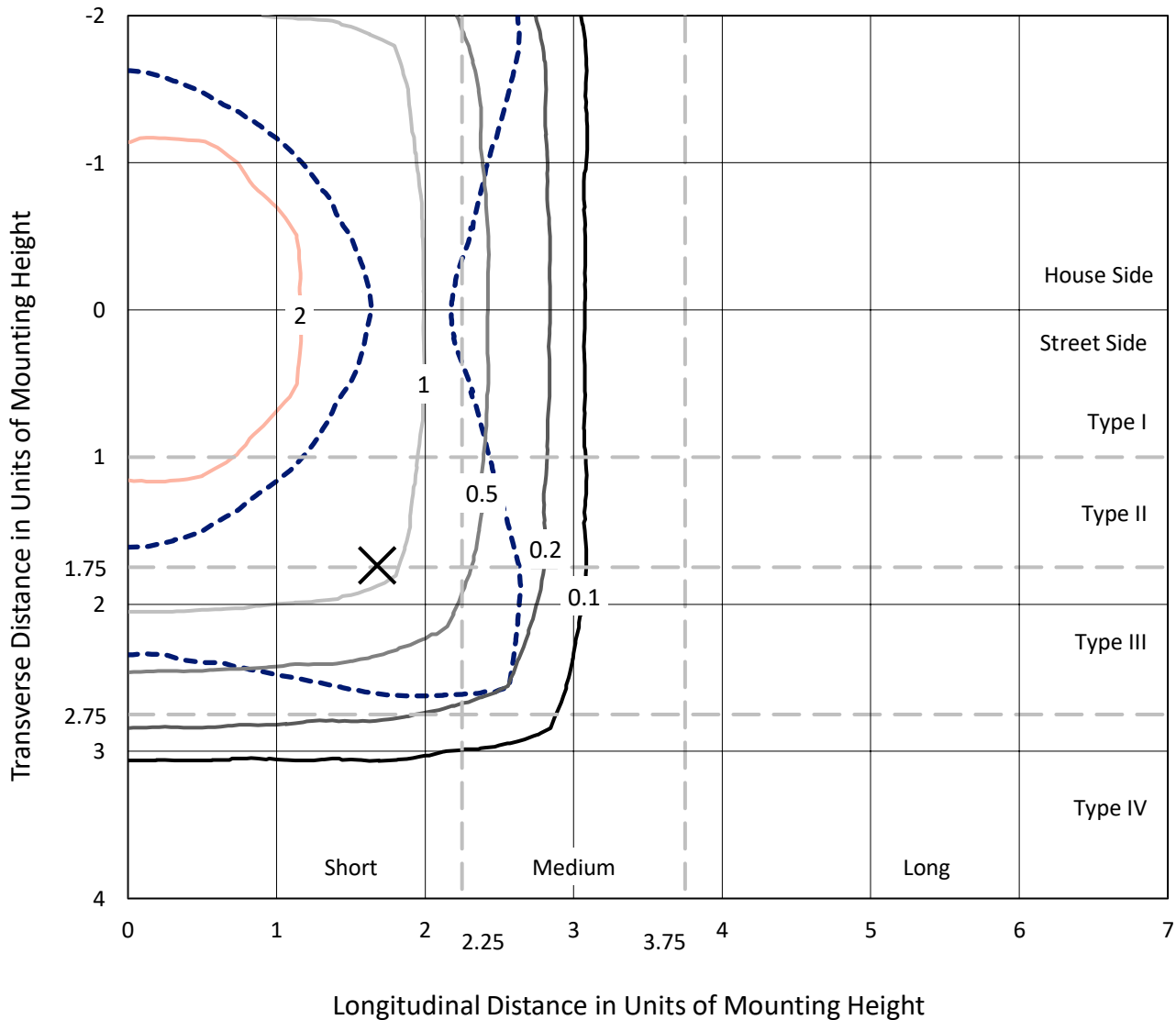
Lumens per Lamp: N/A
Luminaire Lumens: 33693.8 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

REPORT NUMBER: P479342
 CATALOG NUMBER: IFLD-S-SA6B-740-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

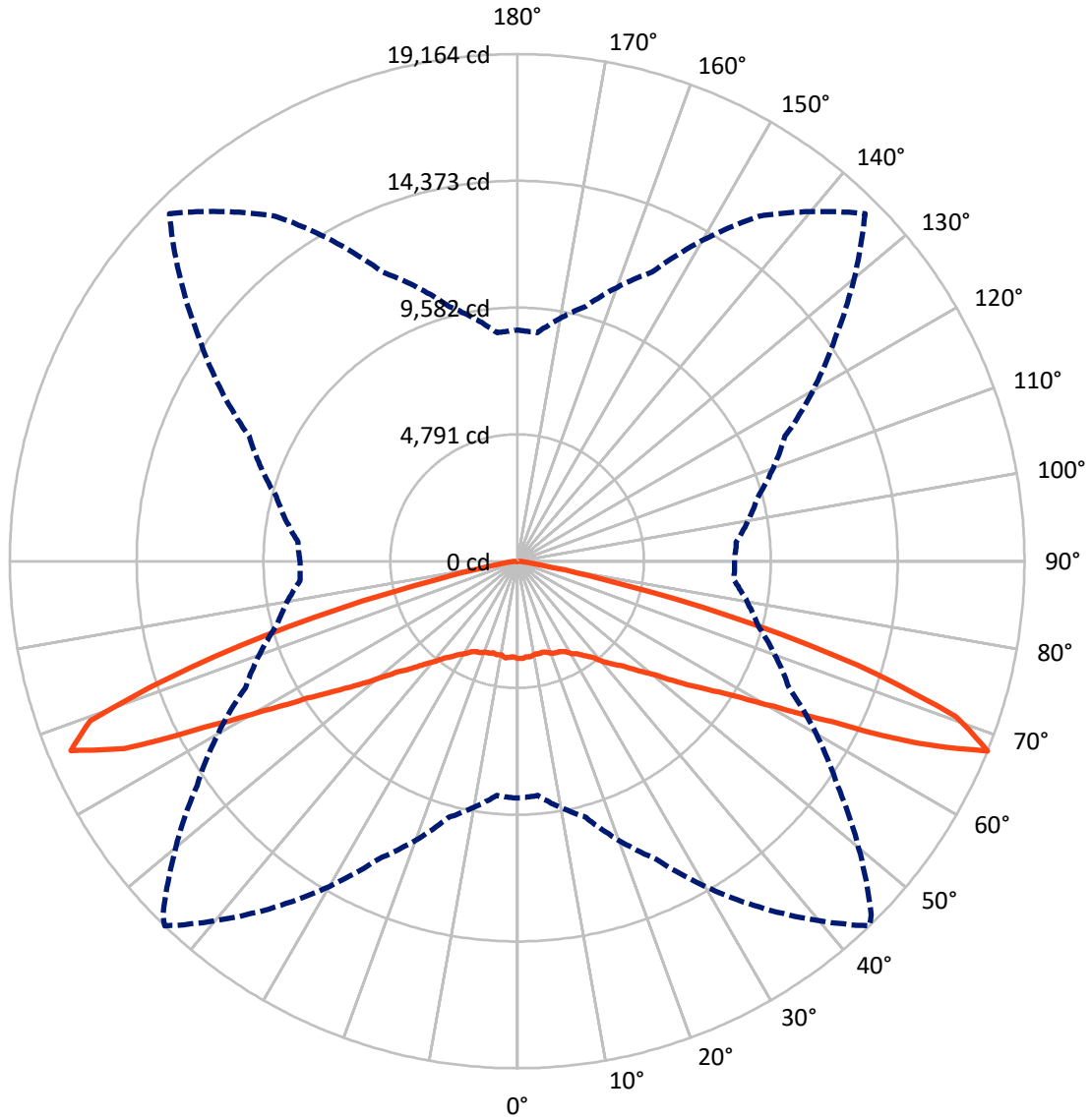
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - N/A

REPORT NUMBER: P479342
CATALOG NUMBER: IFLD-S-SA6B-740-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P479342
 CATALOG NUMBER: IFLD-S-SA6B-740-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16803.7	0.0	16803.7
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	16890.0	0.0	16890.0
	% Fixture	50.1	0.0	50.1
Total	Lumens	33693.8	0.0	33693.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.3	1.0
10°-20°	1017.5	3.0
20°-30°	1730.3	5.1
30°-40°	2743.5	8.1
40°-50°	4473.5	13.3
50°-60°	7640.1	22.7
60°-70°	11620.5	34.5
70°-80°	3916.8	11.6
80°-90°	203.4	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°	33693.8	100.0
0°-180°	33693.8	100.0

Coefficient of Utilization



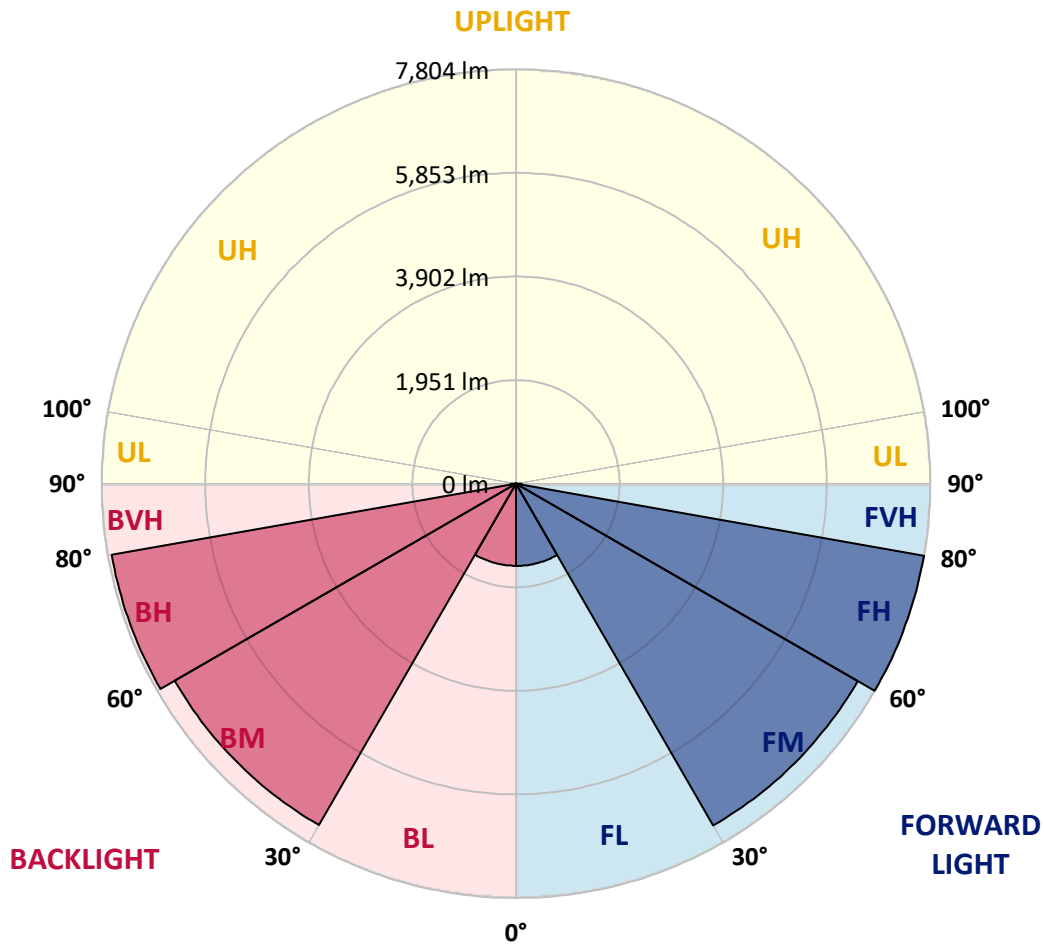
REPORT NUMBER: P479342

CATALOG NUMBER: IFLD-S-SA6B-740-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1549.6	4.6			
FM (30°-60°)	7432.5	22.1			
FH (60°-80°)	7803.8	23.2			G4/12000
FVH (80°-90°)	104.0	0.3			G2/225
BL (0°-30°)	1546.5	4.6	B3/2500		
BM (30°-60°)	7424.5	22.0	B4/8500		
BH (60°-80°)	7733.5	23.0	B5		G4/12000
BVH (80°-90°)	99.3	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





REPORT NUMBER: P479342

CATALOG NUMBER: IFLD-S-SA6B-740-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3680.5	3680.5	3680.5	3680.5	3680.5	3680.5	3680.5	3680.5	3680.5	3680.5	3680.5
2.5°	3595.9	3638.2	3668.9	3665.1	3676.6	3688.2	3672.8	3695.8	3680.5	3707.4	3722.8
5°	3665.1	3653.5	3657.4	3634.3	3688.2	3626.6	3626.6	3657.4	3695.8	3649.7	3676.6
7.5°	3622.8	3615.1	3595.9	3630.5	3642.0	3642.0	3672.8	3615.1	3680.5	3695.8	3699.7
10°	3576.6	3534.3	3592.0	3626.6	3634.3	3572.8	3599.7	3615.1	3595.9	3615.1	3626.6
12.5°	3538.2	3561.2	3561.2	3561.2	3549.7	3592.0	3618.9	3615.1	3576.6	3611.2	3549.7
15°	3534.3	3522.8	3557.4	3588.2	3568.9	3576.6	3588.2	3622.8	3549.7	3565.1	3565.1
17.5°	3530.5	3545.9	3557.4	3553.5	3618.9	3618.9	3607.4	3584.3	3642.0	3611.2	3568.9
20°	3545.9	3534.3	3565.1	3576.6	3622.8	3715.1	3680.5	3661.2	3630.5	3592.0	3592.0
22.5°	3565.1	3557.4	3599.7	3649.7	3738.1	3761.2	3757.4	3734.3	3680.5	3634.3	3626.6
25°	3634.3	3565.1	3611.2	3707.4	3738.1	3784.3	3815.1	3784.3	3711.2	3722.8	3653.5
27.5°	3738.1	3726.6	3788.1	3853.5	3826.6	3868.9	3842.0	3865.1	3868.9	3811.2	3742.0
30°	3861.2	3826.6	3865.1	3992.0	4003.5	4049.7	4003.5	3942.0	3961.2	3911.2	3876.6
32.5°	4038.1	4026.6	4099.7	4184.3	4199.6	4176.6	4153.5	4188.1	4107.3	4068.9	4007.4
35°	4153.5	4203.5	4291.9	4357.3	4407.3	4384.2	4395.8	4361.2	4380.4	4299.6	4272.7
37.5°	4495.8	4476.5	4495.8	4607.3	4618.8	4607.3	4618.8	4657.3	4630.4	4561.2	4491.9
40°	4818.8	4788.1	4834.2	4961.1	4953.4	4991.9	4915.0	4957.3	4957.3	4826.5	4799.6
42.5°	5061.1	5165.0	5218.8	5322.6	5361.1	5326.5	5311.1	5318.8	5403.4	5249.6	5191.9
45°	5561.1	5557.2	5718.7	5776.4	5668.8	5661.1	5630.3	5722.6	5780.3	5691.8	5668.8
47.5°	6103.3	6130.3	6222.6	6245.6	6311.0	6191.8	6191.8	6203.3	6407.2	6199.5	6091.8
50°	6591.8	6626.4	6811.0	6991.7	6868.7	6741.7	6791.7	6853.3	6964.8	6768.7	6676.4
52.5°	7184.0	7372.5	7495.5	7591.7	7680.1	7591.7	7476.3	7545.5	7764.7	7503.2	7387.8
55°	8037.8	8187.8	8303.1	8480.1	8553.1	8433.9	8422.4	8414.7	8537.7	8260.8	8103.2
57.5°	8991.6	8930.0	9114.6	9387.7	9653.0	9537.7	9503.0	9510.7	9541.5	9149.2	9030.0
60°	10176.1	10245.3	10464.5	10702.9	10983.7	11145.2	10918.3	10787.6	10814.5	10279.9	10095.3
62.5°	10852.9	11006.8	11502.9	12322.0	12887.4	13391.2	13425.8	12575.9	12006.7	10968.3	10183.8
65°	10526.0	10503.0	11437.5	12952.8	15094.9	16560.1	16340.9	14279.6	12291.3	10641.4	9587.7
67.5°	8953.1	8891.6	10022.2	12425.9	15964.0	19163.8	18913.8	14760.3	11329.8	9414.6	8222.4
70°	5768.7	5753.4	6980.2	9472.3	14252.6	17594.7	17687.0	13406.6	9222.3	6895.6	5714.9
72.5°	2096.0	2222.9	2934.4	5091.9	9680.0	13460.4	13518.1	9926.1	5303.4	3188.2	2349.8
75°	773.0	796.1	926.8	1653.7	4411.2	8264.7	8480.1	4815.0	1884.5	1038.4	846.1
77.5°	446.1	450.0	496.1	615.3	1307.6	3226.7	3357.4	1461.4	730.7	553.8	511.5
80°	303.8	300.0	350.0	400.0	523.0	915.3	973.0	611.5	461.5	384.6	323.0
82.5°	176.9	188.4	257.7	284.6	319.2	403.8	411.5	380.7	346.1	284.6	211.5
85°	107.7	88.5	142.3	157.7	184.6	180.8	180.8	207.7	223.1	200.0	119.2
87.5°	26.9	26.9	34.6	38.5	50.0	38.5	42.3	80.8	107.7	100.0	61.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P479342
 CATALOG NUMBER: IFLD-S-SA6B-740-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3680.5	3680.5	3680.5	3680.5	3680.5	3680.5	3680.5	3680.5	3680.5	3680.5	3680.5
2.5°	3688.2	3676.6	3684.3	3726.6	3699.7	3618.9	3638.2	3680.5	3645.8	3626.6	3622.8
5°	3672.8	3695.8	3668.9	3676.6	3703.5	3638.2	3649.7	3703.5	3680.5	3688.2	3645.8
7.5°	3676.6	3688.2	3665.1	3630.5	3630.5	3684.3	3653.5	3661.2	3626.6	3684.3	3607.4
10°	3653.5	3622.8	3595.9	3615.1	3607.4	3592.0	3580.5	3603.5	3568.9	3618.9	3565.1
12.5°	3584.3	3592.0	3584.3	3576.6	3592.0	3630.5	3568.9	3576.6	3522.8	3530.5	3557.4
15°	3557.4	3580.5	3572.8	3615.1	3634.3	3576.6	3622.8	3576.6	3534.3	3511.2	3553.5
17.5°	3568.9	3603.5	3592.0	3622.8	3588.2	3630.5	3638.2	3618.9	3568.9	3549.7	3568.9
20°	3580.5	3568.9	3584.3	3638.2	3688.2	3645.8	3645.8	3634.3	3588.2	3561.2	3561.2
22.5°	3607.4	3588.2	3611.2	3653.5	3668.9	3734.3	3676.6	3649.7	3572.8	3503.6	3568.9
25°	3661.2	3672.8	3688.2	3672.8	3757.4	3749.7	3742.0	3722.8	3603.5	3607.4	3595.9
27.5°	3765.1	3699.7	3718.9	3811.2	3822.8	3853.5	3815.1	3849.7	3722.8	3726.6	3649.7
30°	3892.0	3822.8	3884.3	3965.1	3961.2	4018.9	3999.7	4007.4	3918.9	3868.9	3765.1
32.5°	4030.4	4022.7	4061.2	4111.2	4130.4	4161.2	4157.3	4157.3	4103.5	3972.7	3992.0
35°	4184.3	4238.1	4284.3	4338.1	4345.8	4384.2	4330.4	4338.1	4284.3	4188.1	4218.9
37.5°	4488.1	4484.2	4534.2	4599.6	4607.3	4576.5	4618.8	4599.6	4526.5	4461.2	4411.2
40°	4841.9	4765.0	4811.1	4965.0	4976.5	4922.7	4918.8	4915.0	4861.1	4718.8	4688.1
42.5°	5149.6	5249.6	5241.9	5291.9	5257.2	5230.3	5326.5	5272.6	5230.3	5080.3	5053.4
45°	5545.7	5576.5	5676.4	5838.0	5672.6	5672.6	5738.0	5695.7	5672.6	5561.1	5457.2
47.5°	6038.0	6064.9	6264.9	6276.4	6168.7	6095.6	6299.5	6307.2	6211.0	6126.4	5999.5
50°	6614.8	6626.4	6807.1	6991.7	6872.5	6734.0	6941.7	7022.5	6807.1	6691.7	6534.1
52.5°	7249.4	7214.8	7364.8	7710.9	7595.5	7553.2	7776.3	7795.5	7503.2	7322.5	7364.8
55°	7980.1	7933.9	8341.6	8576.2	8503.1	8426.2	8526.2	8572.4	8337.8	8041.6	8145.5
57.5°	8926.2	8949.2	9153.1	9383.8	9503.0	9522.3	9568.4	9522.3	9283.8	8983.9	8887.7
60°	9872.2	9941.5	10337.6	10772.2	10810.6	11149.1	11087.5	10856.8	10518.3	10091.5	10110.7
62.5°	10222.2	10164.5	10802.9	11864.4	12768.2	13387.3	13114.3	12295.1	11510.6	10733.7	10791.4
65°	9518.4	9660.7	10529.9	12191.3	14152.7	16602.4	15148.7	12883.5	11299.0	10295.3	10183.8
67.5°	8203.2	8310.8	9414.6	11168.3	14648.8	18579.2	15917.9	12052.8	9964.5	8664.7	8733.9
70°	5714.9	5768.7	6849.4	9149.2	13283.5	17533.1	14360.3	9256.9	6880.2	5484.2	5561.1
72.5°	2299.8	2430.6	3142.0	5511.1	9806.9	13322.0	9668.4	4857.3	2853.6	2122.9	1926.8
75°	849.9	853.8	1003.8	1896.0	4657.3	8372.4	4361.2	1561.4	911.5	746.1	711.5
77.5°	492.3	488.4	523.0	684.6	1349.9	3269.0	1238.4	611.5	496.1	446.1	426.9
80°	307.7	303.8	357.7	453.8	592.3	896.1	523.0	380.7	334.6	288.4	288.4
82.5°	196.1	200.0	280.7	334.6	361.5	396.1	303.8	269.2	250.0	165.4	161.5
85°	126.9	115.4	196.1	223.1	200.0	176.9	169.2	142.3	130.8	80.8	88.5
87.5°	57.7	61.5	100.0	111.5	73.1	42.3	42.3	30.8	30.8	19.2	19.2
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)