

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: P481228

Luminaire Tested: **IFLD-L-SA8A-730-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481228  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-730-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

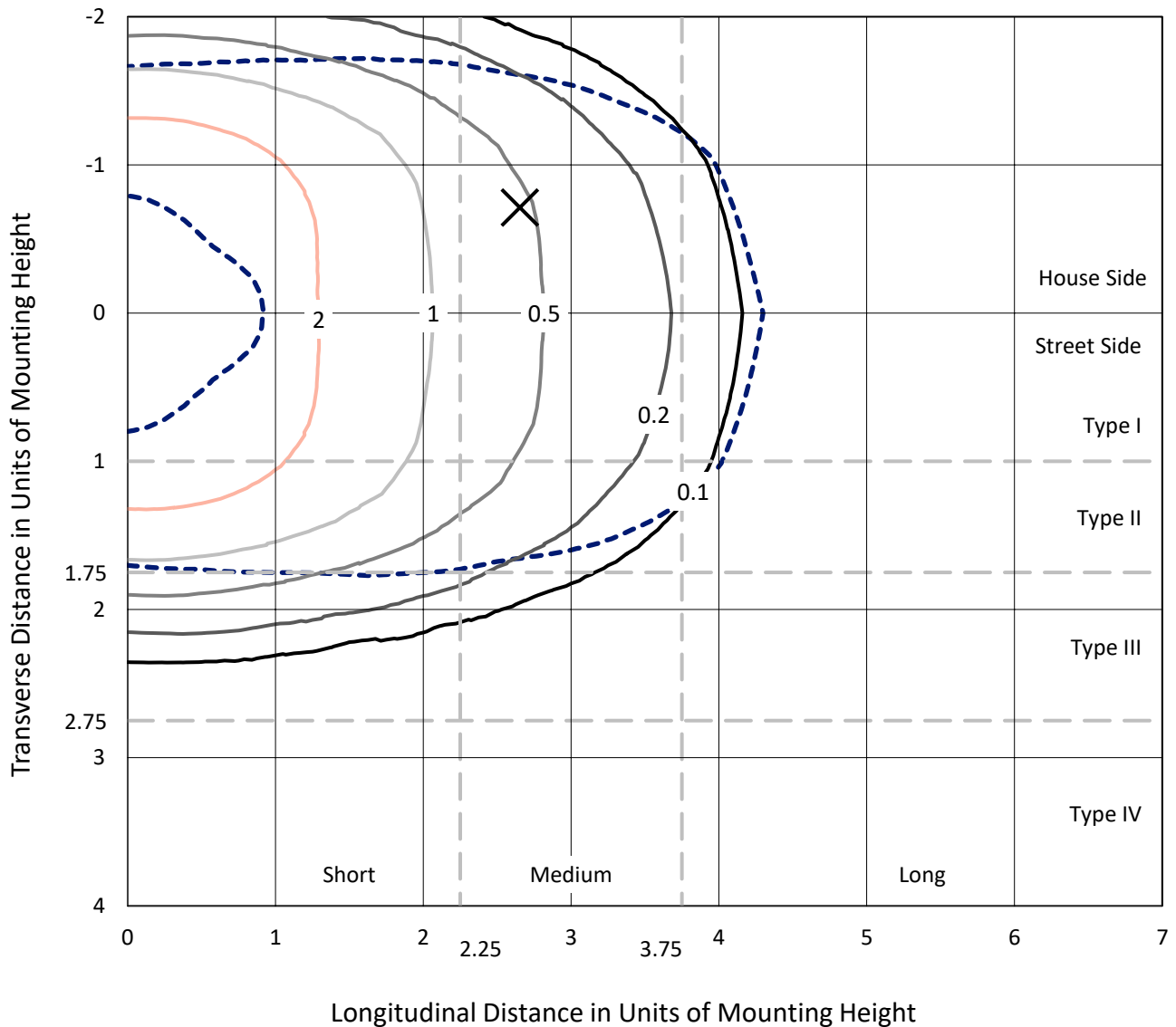
Lumens per Lamp: N/A  
Luminaire Lumens: 32130.4 lumens  
Efficiency: N/A  
Efficacy: 129.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 247.8  
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

REPORT NUMBER: P481228  
 CATALOG NUMBER: IFLD-L-SA8A-730-U-RW

### Iso-Footcandle Lines of Horizontal Illumination

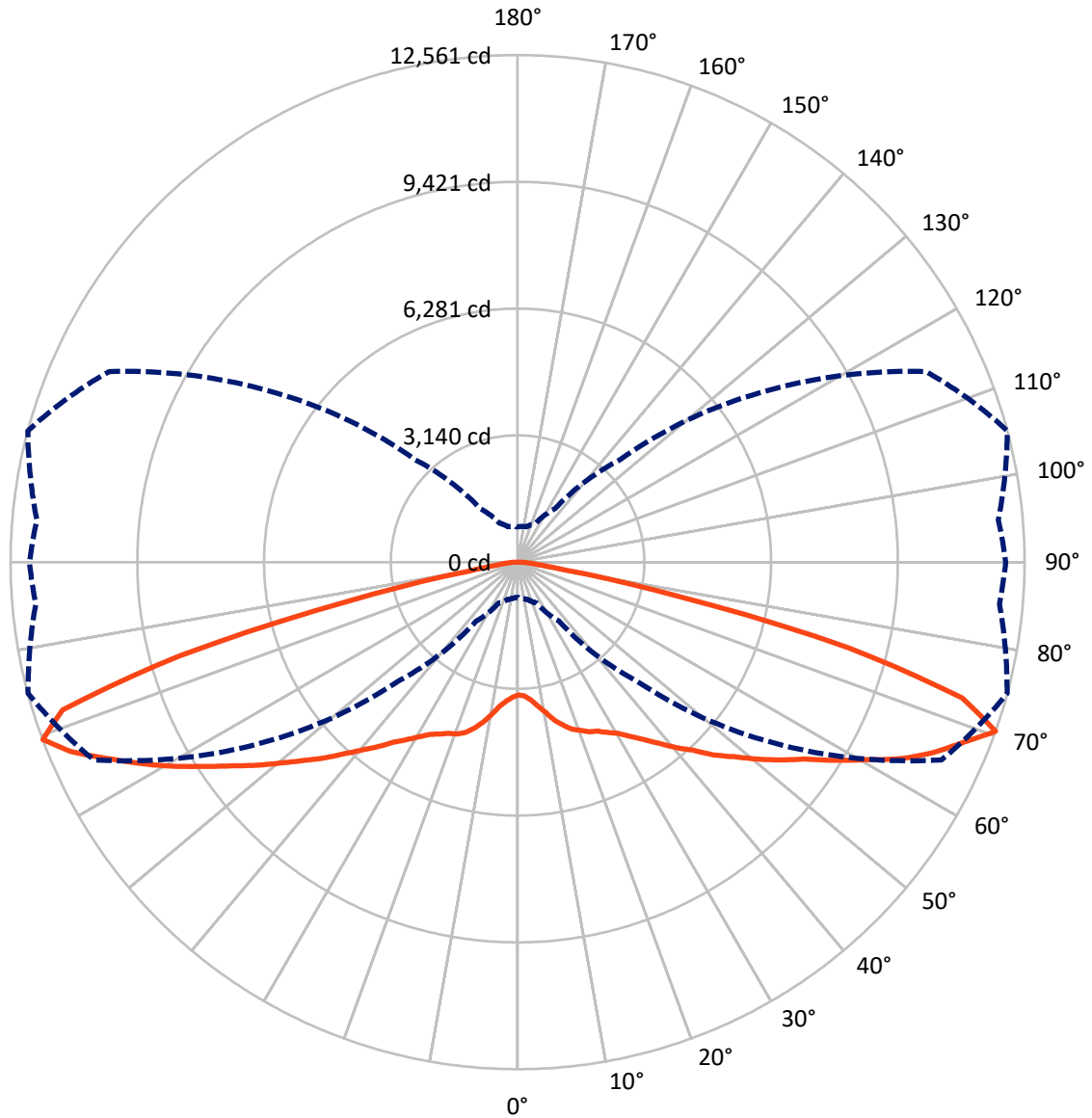
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P481228  
CATALOG NUMBER: IFLD-L-SA8A-730-U-RW

### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P481228  
 CATALOG NUMBER: IFLD-L-SA8A-730-U-RW

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15950.9	0.0	15950.9
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	16179.5	0.0	16179.5
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	32130.4	0.0	32130.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.5	1.0
10°-20°	1115.0	3.5
20°-30°	2159.1	6.7
30°-40°	3651.9	11.4
40°-50°	5825.9	18.1
50°-60°	7974.4	24.8
60°-70°	7516.4	23.4
70°-80°	3311.2	10.3
80°-90°	249.1	0.8
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°	32130.4	100.0
0°-180°	32130.4	100.0

**Coefficient of Utilization**



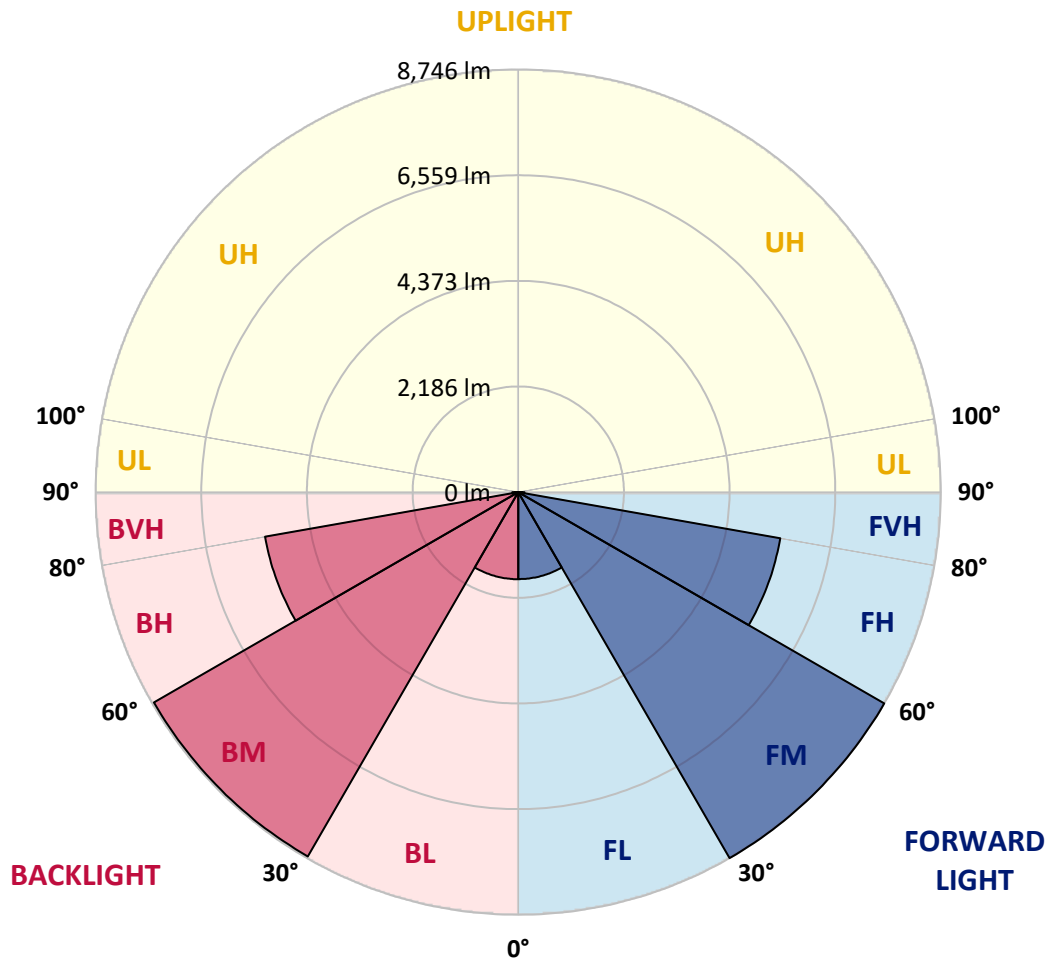
REPORT NUMBER: P481228  
 CATALOG NUMBER: IFLD-L-SA8A-730-U-RW

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1799.8	5.6			
FM (30°-60°)	8745.6	27.2			
FH (60°-80°)	5506.8	17.1			G3/7500
FVH (80°-90°)	127.3	0.4			G2/225
BL (0°-30°)	1801.8	5.6	B3/2500		
BM (30°-60°)	8706.5	27.1	B5		
BH (60°-80°)	5320.7	16.6	B5		G5
BVH (80°-90°)	121.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type II Short





REPORT NUMBER: P481228  
 CATALOG NUMBER: IFLD-L-SA8A-730-U-RW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3290.1	3290.1	3290.1	3290.1	3290.1	3290.1	3290.1	3290.1	3290.1	3290.1	3290.1
2.5°	3269.3	3269.3	3265.9	3283.2	3300.5	3307.4	3321.3	3324.8	3345.5	3328.2	3362.8
5°	3259.0	3255.5	3283.2	3324.8	3324.8	3369.8	3397.5	3435.6	3446.0	3466.7	3473.7
7.5°	3331.7	3324.8	3310.9	3355.9	3394.0	3463.3	3501.4	3567.2	3591.4	3619.1	3650.3
10°	3376.7	3376.7	3362.8	3442.5	3477.1	3570.6	3653.8	3719.6	3813.1	3844.2	3847.7
12.5°	3383.6	3394.0	3435.6	3539.5	3636.4	3757.7	3820.0	3944.7	4038.2	4097.1	4117.8
15°	3487.5	3466.7	3511.8	3653.8	3795.8	3903.1	4013.9	4104.0	4239.1	4315.3	4363.7
17.5°	3581.0	3560.3	3643.4	3813.1	3958.5	4124.8	4221.7	4318.7	4415.7	4485.0	4488.4
20°	3730.0	3747.3	3820.0	4003.6	4194.0	4339.5	4450.3	4467.6	4516.1	4616.6	4599.2
22.5°	3913.5	3899.7	4052.0	4252.9	4460.7	4581.9	4644.3	4599.2	4575.0	4682.4	4706.6
25°	4097.1	4138.6	4277.2	4464.2	4713.5	4876.3	4893.6	4768.9	4678.9	4717.0	4706.6
27.5°	4377.6	4384.5	4530.0	4751.6	5004.4	5146.4	5136.1	4959.4	4786.3	4789.7	4796.6
30°	4737.8	4703.1	4862.5	5063.3	5312.7	5440.8	5458.1	5205.3	4973.3	4904.0	4921.3
32.5°	5084.1	5125.7	5264.2	5492.8	5676.3	5749.1	5711.0	5485.8	5184.5	5091.0	5101.4
35°	5527.4	5520.5	5711.0	5904.9	6043.4	6057.3	6026.1	5697.1	5413.1	5291.9	5243.4
37.5°	6001.9	6064.2	6188.9	6348.2	6493.7	6500.6	6330.9	6067.7	5717.9	5517.0	5575.9
40°	6531.8	6601.0	6691.1	6923.1	7030.5	6919.6	6746.5	6389.8	6026.1	5849.5	5877.2
42.5°	6999.3	7030.5	7214.0	7487.6	7539.6	7491.1	7234.8	6801.9	6379.4	6185.4	6199.3
45°	7428.7	7470.3	7709.3	7955.2	8076.4	7993.3	7695.4	7283.3	6791.5	6625.3	6559.5
47.5°	7823.6	7906.7	8138.7	8391.5	8578.6	8585.5	8218.4	7719.7	7200.2	6982.0	6978.5
50°	8090.2	8211.4	8440.0	8727.5	9001.1	9108.4	8741.3	8204.5	7646.9	7414.9	7390.7
52.5°	8235.7	8360.4	8588.9	9035.7	9340.5	9506.7	9333.6	8658.2	8169.9	7927.5	7889.4
55°	8059.1	8142.2	8516.2	9143.1	9614.1	9887.7	9773.4	9285.1	8689.4	8492.0	8526.6
57.5°	7307.5	7480.7	7941.3	8724.0	9607.2	10279.0	10268.6	9877.3	9288.5	9101.5	9108.4
60°	6015.7	6161.2	6729.2	7823.6	9219.3	10438.3	10805.4	10452.2	9960.4	9742.2	9735.3
62.5°	4246.0	4429.5	5087.6	6282.4	8076.4	10216.7	11421.9	11176.0	10618.4	10459.1	10518.0
65°	2375.8	2486.6	3096.2	4176.7	6154.3	8997.6	11532.7	11927.6	11286.8	11044.4	11054.8
67.5°	1271.0	1312.6	1596.6	2192.3	3764.6	6937.0	10414.1	12360.5	12010.7	11591.6	11525.8
70°	872.7	886.6	959.3	1122.1	1780.1	4149.0	7854.7	11588.2	12554.4	11983.0	12093.8
72.5°	737.7	730.8	748.1	765.4	931.6	1856.3	4609.6	8918.0	11851.4	11636.6	11595.1
75°	640.7	637.2	644.2	626.9	647.6	817.3	2039.9	5558.6	8675.5	9683.3	9839.2
77.5°	529.9	533.3	536.8	519.5	512.6	540.3	820.8	2441.6	4270.2	4713.5	5084.1
80°	401.7	408.7	436.4	419.1	391.4	394.8	484.9	817.3	1226.0	1111.7	1146.3
82.5°	273.6	277.1	335.9	315.2	294.4	266.7	311.7	422.5	477.9	363.6	318.6
85°	193.9	190.5	218.2	200.9	187.0	135.1	187.0	239.0	287.5	180.1	162.8
87.5°	45.0	45.0	90.0	72.7	69.3	55.4	72.7	93.5	124.7	79.7	72.7
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: P481228  
 CATALOG NUMBER: IFLD-L-SA8A-730-U-RW

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3290.1	3290.1	3290.1	3290.1	3290.1	3290.1	3290.1	3290.1	3290.1	3290.1
2.5°	3352.5	3321.3	3321.3	3314.4	3286.7	3279.7	3255.5	3262.4	3245.1	3227.8
5°	3470.2	3428.7	3428.7	3369.8	3314.4	3307.4	3279.7	3279.7	3252.0	3259.0
7.5°	3633.0	3594.9	3532.6	3480.6	3404.4	3373.2	3321.3	3314.4	3307.4	3293.6
10°	3826.9	3778.4	3716.1	3608.7	3546.4	3487.5	3435.6	3362.8	3345.5	3349.0
12.5°	4090.1	4013.9	3878.9	3785.4	3705.7	3629.5	3553.3	3446.0	3421.7	3432.1
15°	4277.2	4180.2	4045.1	4010.5	3903.1	3809.6	3684.9	3563.7	3522.2	3511.8
17.5°	4429.5	4349.9	4270.2	4218.3	4131.7	4017.4	3844.2	3705.7	3612.2	3601.8
20°	4554.2	4450.3	4433.0	4464.2	4356.8	4280.6	4069.4	3899.7	3775.0	3723.0
22.5°	4630.4	4564.6	4613.1	4640.8	4633.9	4505.7	4287.5	4090.1	3934.3	3885.8
25°	4713.5	4637.3	4810.5	4904.0	4928.3	4717.0	4547.3	4287.5	4135.2	4104.0
27.5°	4755.1	4782.8	4983.7	5181.1	5163.8	5001.0	4772.4	4540.4	4419.2	4363.7
30°	4876.3	4921.3	5226.1	5447.7	5451.2	5291.9	5118.7	4855.5	4720.5	4696.2
32.5°	5094.5	5149.9	5475.5	5711.0	5752.5	5631.3	5458.1	5295.4	5156.8	5101.4
35°	5260.7	5402.7	5769.8	5984.6	6095.4	6022.7	5925.7	5756.0	5610.5	5562.0
37.5°	5499.7	5697.1	6050.4	6341.3	6466.0	6459.0	6386.3	6202.7	6081.5	6040.0
40°	5842.6	6040.0	6362.1	6746.5	6978.5	6968.1	6926.6	6784.6	6604.5	6583.7
42.5°	6206.2	6369.0	6788.0	7227.9	7560.4	7525.7	7414.9	7248.7	7124.0	7096.3
45°	6559.5	6812.3	7200.2	7764.7	8014.0	8100.6	7969.0	7685.0	7543.0	7525.7
47.5°	7002.8	7203.6	7688.5	8194.1	8564.7	8578.6	8353.4	8090.2	7830.5	7885.9
50°	7397.6	7664.2	8156.0	8710.2	9153.5	8994.2	8706.7	8377.7	8190.7	8117.9
52.5°	7820.1	8145.6	8717.1	9281.6	9527.5	9368.2	8900.6	8533.5	8249.5	8218.4
55°	8436.6	8606.3	9354.3	9787.2	9866.9	9531.0	8841.8	8322.3	7955.2	7865.1
57.5°	9063.4	9260.8	9915.4	10289.4	10206.3	9440.9	8460.8	7657.3	7175.9	7047.8
60°	9697.2	9939.6	10490.3	10833.2	10403.7	8821.0	7383.7	6348.2	5787.1	5672.9
62.5°	10403.7	10718.9	11210.7	11331.9	9818.4	7595.0	5859.9	4581.9	4013.9	3823.5
65°	11030.6	11352.6	11958.7	11228.0	8575.1	5665.9	3788.8	2618.2	2199.2	2046.8
67.5°	11546.6	11910.2	12208.1	9936.2	6278.9	3317.8	1974.1	1378.4	1222.5	1167.1
70°	11955.3	12561.3	11169.1	7304.1	3588.0	1617.4	1066.7	907.4	886.6	872.7
72.5°	11598.5	11518.9	8339.6	4214.8	1572.3	890.1	772.3	748.1	744.6	748.1
75°	9485.9	8460.8	4987.1	1832.1	789.6	644.2	640.7	630.3	647.6	647.6
77.5°	4602.7	4024.3	2084.9	786.2	519.5	505.6	523.0	523.0	523.0	523.0
80°	1066.7	1181.0	744.6	477.9	377.5	377.5	415.6	419.1	401.7	394.8
82.5°	363.6	484.9	408.7	301.3	249.4	280.5	315.2	322.1	266.7	270.1
85°	180.1	284.0	221.7	173.2	128.1	173.2	204.3	214.7	183.6	176.6
87.5°	83.1	124.7	83.1	58.9	45.0	62.3	58.9	48.5	27.7	27.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)