

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: P479226

Luminaire Tested: **IFLD-S-SA6C-727-U-5MQ**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P479226  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-727-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ  
distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

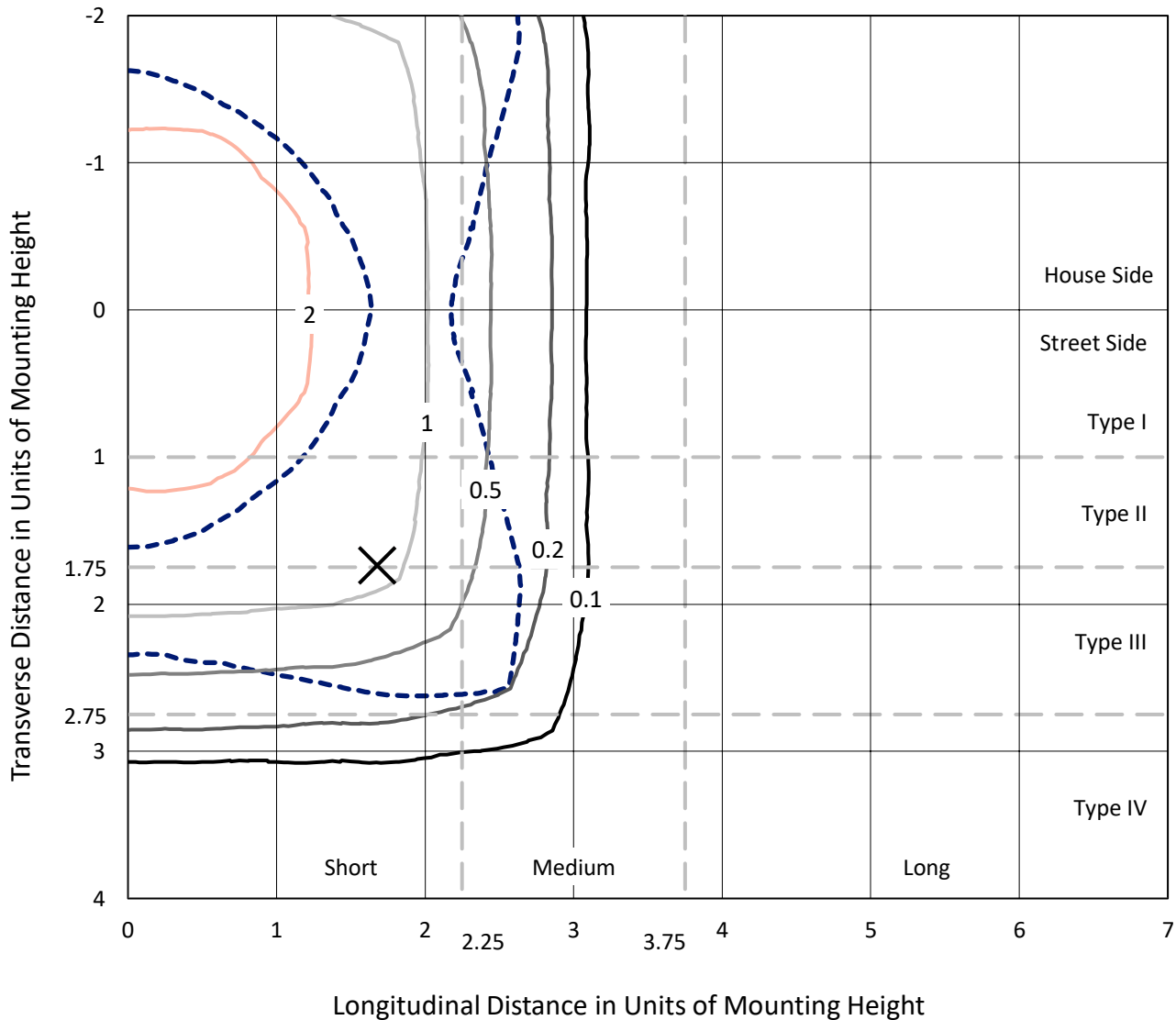
Lumens per Lamp: N/A  
Luminaire Lumens: 35076.7 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 321.5  
Input Voltage (V): 120  
Input Current (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

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 CATALOG NUMBER: IFLD-S-SA6C-727-U-5MQ

### Iso-Footcandle Lines of Horizontal Illumination

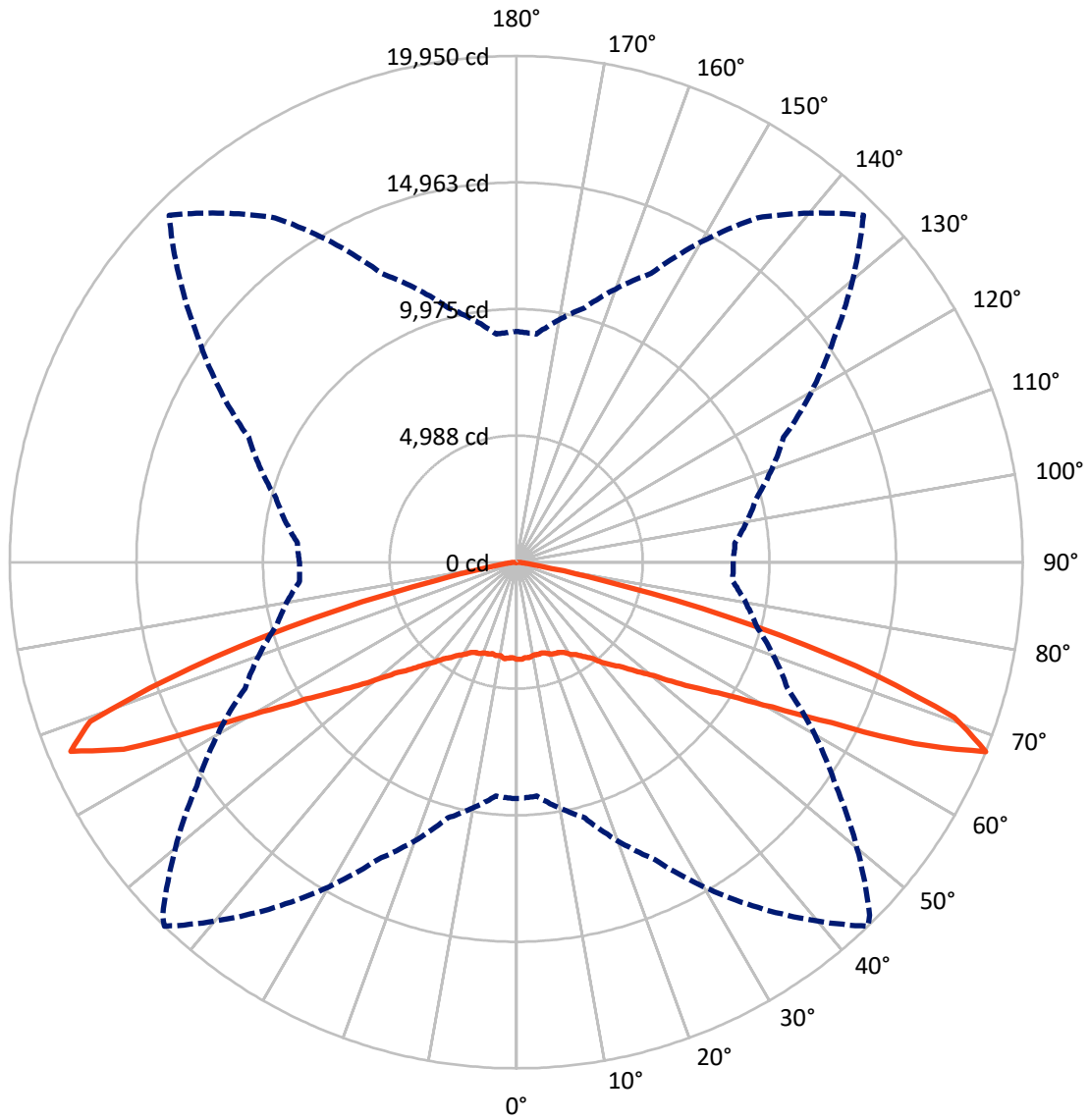
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P479226  
CATALOG NUMBER: IFLD-S-SA6C-727-U-5MQ

### 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
<b>House Side</b>	Lumens	17493.5	0.0	17493.5
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	17583.3	0.0	17583.3
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	35076.7	0.0	35076.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	362.6	1.0
10°-20°	1059.3	3.0
20°-30°	1801.3	5.1
30°-40°	2856.1	8.1
40°-50°	4657.1	13.3
50°-60°	7953.7	22.7
60°-70°	12097.5	34.5
70°-80°	4077.6	11.6
80°-90°	211.7	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°	35076.7	100.0
0°-180°	35076.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P479226

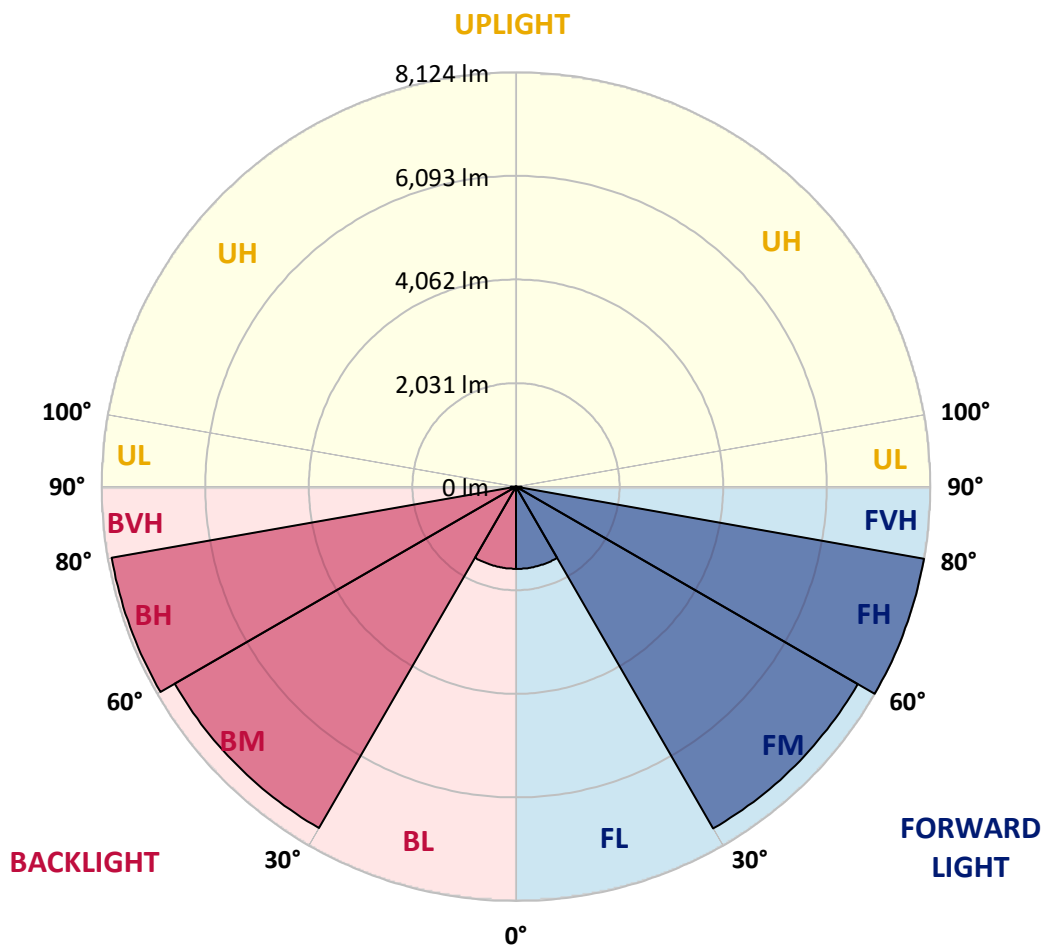
CATALOG NUMBER: IFLD-S-SA6C-727-U-5MQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1613.2	4.6			
FM (30°-60°)	7737.6	22.1			
FH (60°-80°)	8124.2	23.2			G4/12000
FVH (80°-90°)	108.3	0.3			G2/225
BL (0°-30°)	1609.9	4.6	B3/2500		
BM (30°-60°)	7729.2	22.0	B4/8500		
BH (60°-80°)	8050.9	23.0	B5		G4/12000
BVH (80°-90°)	103.4	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





REPORT NUMBER: P479226

CATALOG NUMBER: IFLD-S-SA6C-727-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3831.5	3831.5	3831.5	3831.5	3831.5	3831.5	3831.5	3831.5	3831.5	3831.5	3831.5
2.5°	3743.4	3787.5	3819.5	3815.5	3827.5	3839.5	3823.5	3847.5	3831.5	3859.6	3875.6
5°	3815.5	3803.5	3807.5	3783.5	3839.5	3775.5	3775.5	3807.5	3847.5	3799.5	3827.5
7.5°	3771.5	3763.5	3743.4	3779.5	3791.5	3791.5	3823.5	3763.5	3831.5	3847.5	3851.5
10°	3723.4	3679.4	3739.4	3775.5	3783.5	3719.4	3747.5	3763.5	3743.4	3763.5	3775.5
12.5°	3683.4	3707.4	3707.4	3707.4	3695.4	3739.4	3767.5	3763.5	3723.4	3759.5	3695.4
15°	3679.4	3667.4	3703.4	3735.4	3715.4	3723.4	3735.4	3771.5	3695.4	3711.4	3711.4
17.5°	3675.4	3691.4	3703.4	3699.4	3767.5	3767.5	3755.5	3731.4	3791.5	3759.5	3715.4
20°	3691.4	3679.4	3711.4	3723.4	3771.5	3867.6	3831.5	3811.5	3779.5	3739.4	3739.4
22.5°	3711.4	3703.4	3747.5	3799.5	3891.6	3915.6	3911.6	3887.6	3831.5	3783.5	3775.5
25°	3783.5	3711.4	3759.5	3859.6	3891.6	3939.6	3971.7	3939.6	3863.6	3875.6	3803.5
27.5°	3891.6	3879.6	3943.6	4011.7	3983.7	4027.7	3999.7	4023.7	4027.7	3967.7	3895.6
30°	4019.7	3983.7	4023.7	4155.8	4167.8	4215.9	4167.8	4103.8	4123.8	4071.7	4035.7
32.5°	4203.9	4191.9	4267.9	4356.0	4372.0	4348.0	4324.0	4360.0	4275.9	4235.9	4171.8
35°	4324.0	4376.0	4468.1	4536.2	4588.2	4564.2	4576.2	4540.2	4560.2	4476.1	4448.1
37.5°	4680.3	4660.3	4680.3	4796.4	4808.4	4796.4	4808.4	4848.5	4820.4	4748.4	4676.3
40°	5016.6	4984.6	5032.6	5164.8	5156.7	5196.8	5116.7	5160.8	5160.8	5024.6	4996.6
42.5°	5268.9	5377.0	5433.0	5541.1	5581.1	5545.1	5529.1	5537.1	5625.2	5465.0	5405.0
45°	5789.3	5785.3	5953.5	6013.5	5901.4	5893.4	5861.4	5957.5	6017.5	5925.5	5901.4
47.5°	6353.9	6381.9	6478.0	6502.0	6570.1	6445.9	6445.9	6457.9	6670.1	6453.9	6341.8
50°	6862.3	6898.4	7090.5	7278.7	7150.6	7018.5	7070.5	7134.6	7250.7	7046.5	6950.4
52.5°	7478.9	7675.1	7803.2	7903.3	7995.4	7903.3	7783.2	7855.2	8083.4	7811.2	7691.1
55°	8367.7	8523.9	8644.0	8828.1	8904.2	8780.1	8768.1	8760.1	8888.2	8599.9	8435.8
57.5°	9360.6	9296.6	9488.7	9773.0	10049.3	9929.1	9893.1	9901.1	9933.1	9524.8	9400.7
60°	10593.8	10665.8	10894.0	11142.3	11434.5	11602.7	11366.5	11230.3	11258.4	10701.9	10509.7
62.5°	11298.4	11458.6	11975.0	12827.8	13416.4	13940.8	13976.9	13092.1	12499.5	11418.5	10601.8
65°	10958.1	10934.1	11907.0	13484.4	15714.5	17239.9	17011.7	14865.7	12795.8	11078.2	9981.2
67.5°	9320.6	9256.5	10433.6	12935.9	16619.3	19950.4	19690.1	15366.2	11794.9	9801.0	8559.9
70°	6005.5	5989.5	7266.7	9861.1	14837.7	18316.9	18413.0	13956.9	9600.8	7178.6	5949.5
72.5°	2182.0	2314.1	3054.8	5300.9	10077.3	14012.9	14073.0	10333.5	5521.1	3319.1	2446.3
75°	804.7	828.8	964.9	1721.6	4592.2	8603.9	8828.1	5012.6	1961.8	1081.0	880.8
77.5°	464.4	468.4	516.5	640.6	1361.3	3359.1	3495.2	1521.4	760.7	576.5	532.5
80°	316.3	312.3	364.3	416.4	544.5	952.9	1012.9	636.6	480.4	400.4	336.3
82.5°	184.2	196.2	268.2	296.3	332.3	420.4	428.4	396.4	360.3	296.3	220.2
85°	112.1	92.1	148.1	164.2	192.2	188.2	188.2	216.2	232.2	208.2	124.1
87.5°	28.0	28.0	36.0	40.0	52.0	40.0	44.0	84.1	112.1	104.1	64.1
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°	3831.5	3831.5	3831.5	3831.5	3831.5	3831.5	3831.5	3831.5	3831.5	3831.5	3831.5
2.5°	3839.5	3827.5	3835.5	3879.6	3851.5	3767.5	3787.5	3831.5	3795.5	3775.5	3771.5
5°	3823.5	3847.5	3819.5	3827.5	3855.6	3787.5	3799.5	3855.6	3831.5	3839.5	3795.5
7.5°	3827.5	3839.5	3815.5	3779.5	3779.5	3835.5	3803.5	3811.5	3775.5	3835.5	3755.5
10°	3803.5	3771.5	3743.4	3763.5	3755.5	3739.4	3727.4	3751.5	3715.4	3767.5	3711.4
12.5°	3731.4	3739.4	3731.4	3723.4	3739.4	3779.5	3715.4	3723.4	3667.4	3675.4	3703.4
15°	3703.4	3727.4	3719.4	3763.5	3783.5	3723.4	3771.5	3723.4	3679.4	3655.4	3699.4
17.5°	3715.4	3751.5	3739.4	3771.5	3735.4	3779.5	3787.5	3767.5	3715.4	3695.4	3715.4
20°	3727.4	3715.4	3731.4	3787.5	3839.5	3795.5	3795.5	3783.5	3735.4	3707.4	3707.4
22.5°	3755.5	3735.4	3759.5	3803.5	3819.5	3887.6	3827.5	3799.5	3719.4	3647.4	3715.4
25°	3811.5	3823.5	3839.5	3823.5	3911.6	3903.6	3895.6	3875.6	3751.5	3755.5	3743.4
27.5°	3919.6	3851.5	3871.6	3967.7	3979.7	4011.7	3971.7	4007.7	3875.6	3879.6	3799.5
30°	4051.7	3979.7	4043.7	4127.8	4123.8	4183.9	4163.8	4171.8	4079.8	4027.7	3919.6
32.5°	4195.9	4187.9	4227.9	4279.9	4300.0	4332.0	4328.0	4328.0	4271.9	4135.8	4155.8
35°	4356.0	4412.1	4460.1	4516.2	4524.2	4564.2	4508.2	4516.2	4460.1	4360.0	4392.0
37.5°	4672.3	4668.3	4720.3	4788.4	4796.4	4764.4	4808.4	4788.4	4712.3	4644.3	4592.2
40°	5040.6	4960.6	5008.6	5168.8	5180.8	5124.7	5120.7	5116.7	5060.7	4912.5	4880.5
42.5°	5360.9	5465.0	5457.0	5509.1	5473.0	5445.0	5545.1	5489.1	5445.0	5288.9	5260.8
45°	5773.3	5805.3	5909.4	6077.6	5905.4	5905.4	5973.5	5929.5	5905.4	5789.3	5681.2
47.5°	6285.8	6313.8	6522.0	6534.0	6421.9	6345.8	6558.0	6566.0	6466.0	6377.9	6245.8
50°	6886.3	6898.4	7086.5	7278.7	7154.6	7010.5	7226.7	7310.7	7086.5	6966.4	6802.3
52.5°	7547.0	7510.9	7667.1	8027.4	7907.3	7863.2	8095.5	8115.5	7811.2	7623.0	7667.1
55°	8307.7	8259.6	8684.0	8928.2	8852.2	8772.1	8876.2	8924.2	8680.0	8371.7	8479.8
57.5°	9292.6	9316.6	9528.8	9769.0	9893.1	9913.1	9961.2	9913.1	9664.9	9352.6	9252.5
60°	10277.5	10349.5	10761.9	11214.3	11254.4	11606.7	11542.6	11302.4	10950.1	10505.7	10525.7
62.5°	10641.8	10581.7	11246.4	12351.4	13292.2	13936.8	13652.6	12799.8	11983.0	11174.3	11234.3
65°	9909.1	10057.3	10962.1	12691.7	14733.6	17283.9	15770.5	13412.4	11762.8	10717.9	10601.8
67.5°	8539.9	8652.0	9801.0	11626.7	15250.0	19341.8	16571.3	12547.6	10373.6	9020.3	9092.4
70°	5949.5	6005.5	7130.6	9524.8	13828.7	18252.8	14949.8	9636.9	7162.6	5709.3	5789.3
72.5°	2394.2	2530.3	3271.0	5737.3	10209.4	13868.8	10065.3	5056.7	2970.7	2210.0	2005.8
75°	884.8	888.8	1045.0	1973.8	4848.5	8716.0	4540.2	1625.5	948.9	776.7	740.7
77.5°	512.5	508.5	544.5	712.7	1405.3	3403.1	1289.2	636.6	516.5	464.4	444.4
80°	320.3	316.3	372.3	472.4	616.6	932.9	544.5	396.4	348.3	300.3	300.3
82.5°	204.2	208.2	292.3	348.3	376.3	412.4	316.3	280.3	260.2	172.2	168.2
85°	132.1	120.1	204.2	232.2	208.2	184.2	176.2	148.1	136.1	84.1	92.1
87.5°	60.1	64.1	104.1	116.1	76.1	44.0	44.0	32.0	32.0	20.0	20.0
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)