

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: P481419

Luminaire Tested: **IFLD-L-SA7B-827-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481419  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-827-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

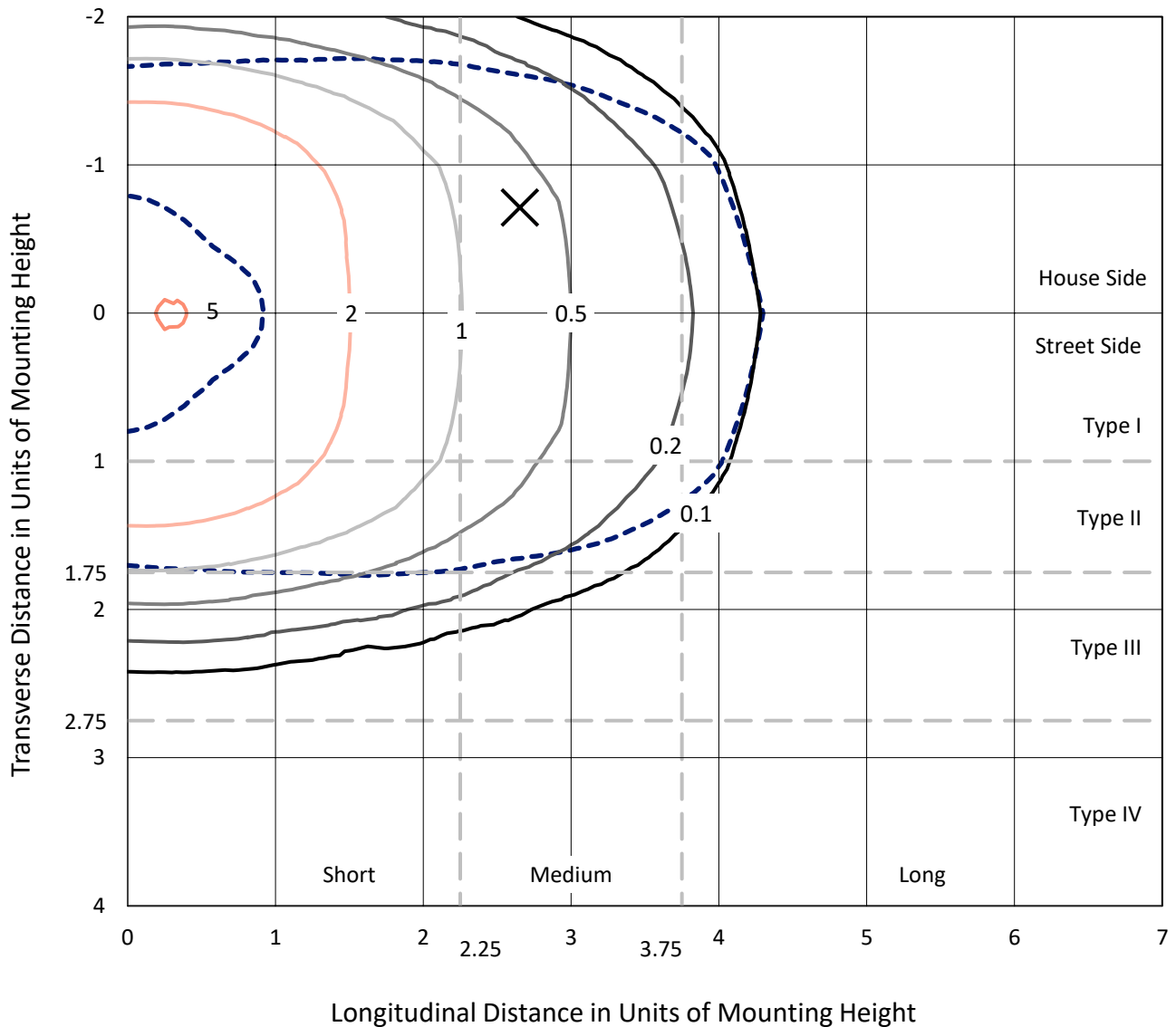
Lumens per Lamp: N/A  
Luminaire Lumens: 26964.5 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 281  
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: P481419  
 CATALOG NUMBER: IFLD-L-SA7B-827-U-RW

### Iso-Footcandle Lines of Horizontal Illumination

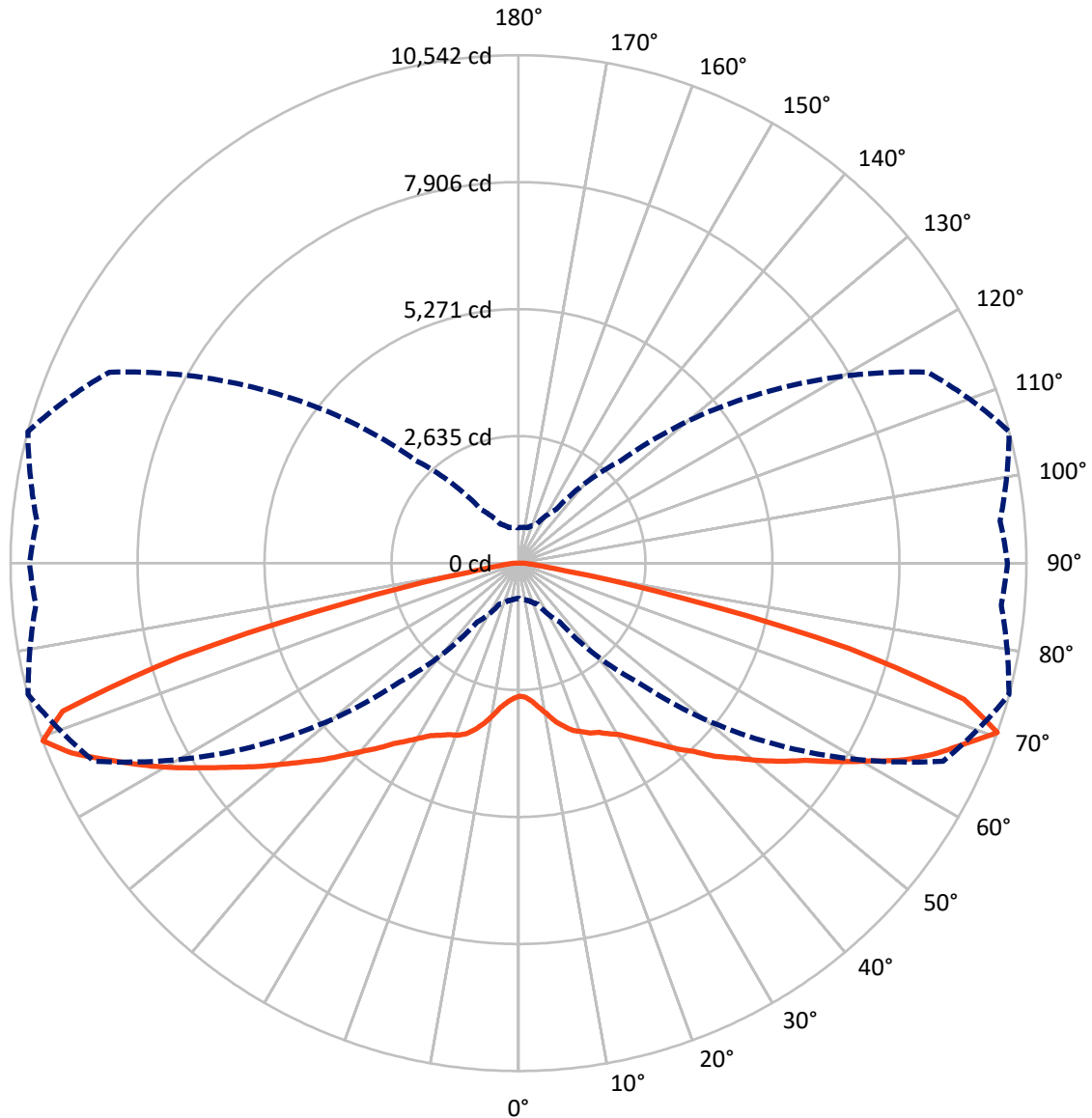
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P481419  
CATALOG NUMBER: IFLD-L-SA7B-827-U-RW

### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13386.3	0.0	13386.3
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	13578.2	0.0	13578.2
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	26964.5	0.0	26964.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.8	1.0
10°-20°	935.8	3.5
20°-30°	1811.9	6.7
30°-40°	3064.8	11.4
40°-50°	4889.2	18.1
50°-60°	6692.2	24.8
60°-70°	6307.9	23.4
70°-80°	2778.8	10.3
80°-90°	209.1	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°	26964.5	100.0
0°-180°	26964.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P481419

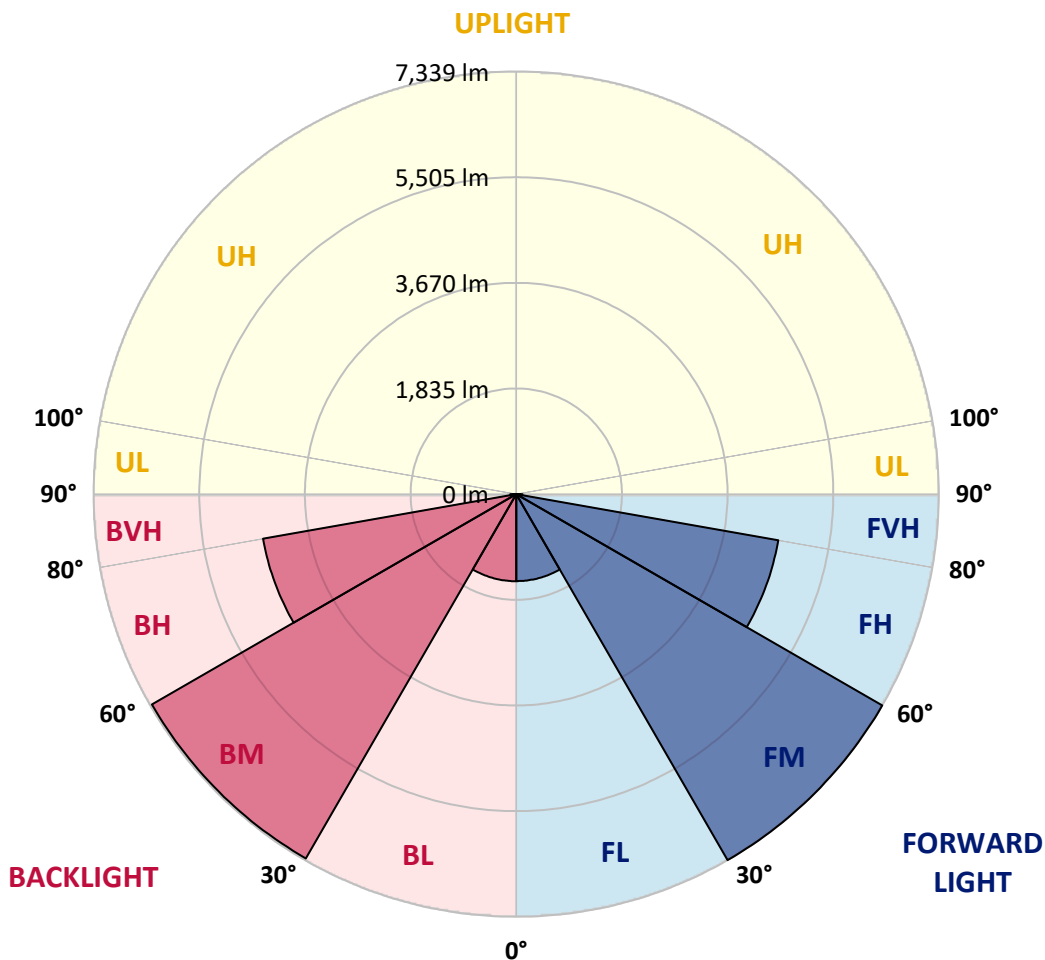
CATALOG NUMBER: IFLD-L-SA7B-827-U-RW

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1510.4	5.6			
FM (30°-60°)	7339.5	27.2			
FH (60°-80°)	4621.4	17.1			G2/5000
FVH (80°-90°)	106.8	0.4			G2/225
BL (0°-30°)	1512.1	5.6	B3/2500		
BM (30°-60°)	7306.7	27.1	B4/8500		
BH (60°-80°)	4465.3	16.6	B4/5000		G4/5000
BVH (80°-90°)	102.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short





REPORT NUMBER: P481419

CATALOG NUMBER: IFLD-L-SA7B-827-U-RW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1
2.5°	2743.7	2743.7	2740.8	2755.3	2769.9	2775.7	2787.3	2790.2	2807.6	2793.1	2822.2
5°	2735.0	2732.1	2755.3	2790.2	2790.2	2828.0	2851.2	2883.2	2891.9	2909.4	2915.2
7.5°	2796.0	2790.2	2778.6	2816.4	2848.3	2906.5	2938.4	2993.7	3014.0	3037.3	3063.4
10°	2833.8	2833.8	2822.2	2889.0	2918.1	2996.6	3066.3	3121.5	3200.0	3226.2	3229.1
12.5°	2839.6	2848.3	2883.2	2970.4	3051.8	3153.5	3205.8	3310.5	3388.9	3438.3	3455.8
15°	2926.8	2909.4	2947.2	3066.3	3185.5	3275.6	3368.6	3444.2	3557.5	3621.5	3662.1
17.5°	3005.3	2987.8	3057.6	3200.0	3322.1	3461.6	3543.0	3624.4	3705.7	3763.9	3766.8
20°	3130.3	3144.8	3205.8	3359.9	3519.7	3641.8	3734.8	3749.3	3790.0	3874.3	3859.8
22.5°	3284.3	3272.7	3400.6	3569.1	3743.5	3845.2	3897.6	3859.8	3839.4	3929.5	3949.9
25°	3438.3	3473.2	3589.5	3746.4	3955.7	4092.3	4106.8	4002.2	3926.6	3958.6	3949.9
27.5°	3673.8	3679.6	3801.7	3987.7	4199.8	4319.0	4310.3	4162.1	4016.7	4019.6	4025.5
30°	3976.0	3947.0	4080.7	4249.2	4458.5	4566.1	4580.6	4368.4	4173.7	4115.6	4130.1
32.5°	4266.7	4301.6	4417.8	4609.6	4763.7	4824.7	4792.8	4603.8	4351.0	4272.5	4281.2
35°	4638.7	4632.9	4792.8	4955.5	5071.8	5083.4	5057.2	4781.1	4542.8	4441.1	4400.4
37.5°	5036.9	5089.2	5193.8	5327.5	5449.6	5455.4	5313.0	5092.1	4798.6	4630.0	4679.4
40°	5481.6	5539.7	5615.3	5810.0	5900.1	5807.1	5661.8	5362.4	5057.2	4909.0	4932.3
42.5°	5874.0	5900.1	6054.2	6283.8	6327.4	6286.7	6071.6	5708.3	5353.7	5190.9	5202.6
45°	6234.4	6269.2	6469.8	6676.1	6777.9	6708.1	6458.2	6112.3	5699.6	5560.1	5504.8
47.5°	6565.7	6635.5	6830.2	7042.4	7199.3	7205.1	6897.0	6478.5	6042.5	5859.4	5856.5
50°	6789.5	6891.2	7083.0	7324.3	7553.9	7644.0	7335.9	6885.4	6417.5	6222.7	6202.4
52.5°	6911.6	7016.2	7208.0	7583.0	7838.7	7978.2	7832.9	7266.2	6856.3	6652.9	6620.9
55°	6763.3	6833.1	7147.0	7673.1	8068.3	8297.9	8202.0	7792.2	7292.3	7126.6	7155.7
57.5°	6132.6	6278.0	6664.5	7321.4	8062.5	8626.4	8617.7	8289.2	7795.1	7638.2	7644.0
60°	5048.5	5170.6	5647.3	6565.7	7737.0	8760.1	9068.2	8771.7	8359.0	8175.9	8170.1
62.5°	3563.3	3717.4	4269.6	5272.3	6777.9	8574.1	9585.5	9379.2	8911.2	8777.5	8826.9
65°	1993.8	2086.8	2598.4	3505.2	5164.8	7551.0	9678.5	10009.9	9472.2	9268.7	9277.4
67.5°	1066.7	1101.5	1339.9	1839.8	3159.3	5821.6	8739.7	10373.2	10079.6	9727.9	9672.7
70°	732.4	744.1	805.1	941.7	1493.9	3481.9	6591.9	9725.0	10535.9	10056.4	10149.4
72.5°	619.1	613.3	627.8	642.3	781.8	1557.9	3868.5	7484.1	9945.9	9765.7	9730.8
75°	537.7	534.8	540.6	526.1	543.5	685.9	1711.9	4664.9	7280.7	8126.5	8257.3
77.5°	444.7	447.6	450.5	436.0	430.2	453.4	688.8	2049.1	3583.7	3955.7	4266.7
80°	337.1	343.0	366.2	351.7	328.4	331.3	406.9	685.9	1028.9	933.0	962.0
82.5°	229.6	232.5	281.9	264.5	247.0	223.8	261.6	354.6	401.1	305.2	267.4
85°	162.8	159.9	183.1	168.6	156.9	113.4	156.9	200.5	241.2	151.1	136.6
87.5°	37.8	37.8	75.6	61.0	58.1	46.5	61.0	78.5	104.6	66.8	61.0
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: P481419

CATALOG NUMBER: IFLD-L-SA7B-827-U-RW

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1	2761.1
2.5°	2813.5	2787.3	2787.3	2781.5	2758.2	2752.4	2732.1	2737.9	2723.4	2708.8
5°	2912.3	2877.4	2877.4	2828.0	2781.5	2775.7	2752.4	2752.4	2729.2	2735.0
7.5°	3048.9	3016.9	2964.6	2921.0	2857.1	2830.9	2787.3	2781.5	2775.7	2764.0
10°	3211.6	3171.0	3118.6	3028.5	2976.2	2926.8	2883.2	2822.2	2807.6	2810.5
12.5°	3432.5	3368.6	3255.2	3176.8	3109.9	3046.0	2982.0	2891.9	2871.6	2880.3
15°	3589.5	3508.1	3394.7	3365.7	3275.6	3197.1	3092.5	2990.7	2955.9	2947.2
17.5°	3717.4	3650.5	3583.7	3540.1	3467.4	3371.5	3226.2	3109.9	3031.4	3022.7
20°	3822.0	3734.8	3720.3	3746.4	3656.3	3592.4	3415.1	3272.7	3168.0	3124.4
22.5°	3885.9	3830.7	3871.4	3894.7	3888.8	3781.3	3598.2	3432.5	3301.7	3261.1
25°	3955.7	3891.8	4037.1	4115.6	4135.9	3958.6	3816.2	3598.2	3470.3	3444.2
27.5°	3990.6	4013.8	4182.4	4348.1	4333.5	4196.9	4005.1	3810.4	3708.6	3662.1
30°	4092.3	4130.1	4385.9	4571.9	4574.8	4441.1	4295.8	4074.9	3961.5	3941.2
32.5°	4275.4	4321.9	4595.1	4792.8	4827.6	4725.9	4580.6	4444.0	4327.7	4281.2
35°	4414.9	4534.1	4842.2	5022.4	5115.4	5054.3	4973.0	4830.5	4708.5	4667.8
37.5°	4615.5	4781.1	5077.6	5321.7	5426.4	5420.6	5359.5	5205.5	5103.7	5068.9
40°	4903.2	5068.9	5339.2	5661.8	5856.5	5847.8	5812.9	5693.8	5542.6	5525.2
42.5°	5208.4	5345.0	5696.7	6065.8	6344.8	6315.7	6222.7	6083.2	5978.6	5955.3
45°	5504.8	5717.0	6042.5	6516.3	6725.6	6798.2	6687.8	6449.4	6330.3	6315.7
47.5°	5876.9	6045.4	6452.3	6876.7	7187.7	7199.3	7010.4	6789.5	6571.5	6618.0
50°	6208.2	6432.0	6844.7	7309.8	7681.8	7548.1	7306.8	7030.7	6873.8	6812.7
52.5°	6562.8	6836.0	7315.6	7789.3	7995.7	7862.0	7469.6	7161.5	6923.2	6897.0
55°	7080.1	7222.6	7850.4	8213.7	8280.5	7998.6	7420.2	6984.2	6676.1	6600.6
57.5°	7606.2	7771.9	8321.2	8635.1	8565.3	7923.0	7100.5	6426.2	6022.2	5914.7
60°	8138.1	8341.5	8803.7	9091.4	8731.0	7402.8	6196.6	5327.5	4856.7	4760.8
62.5°	8731.0	8995.5	9408.2	9509.9	8239.8	6373.9	4917.7	3845.2	3368.6	3208.7
65°	9257.1	9527.4	10036.0	9422.8	7196.4	4755.0	3179.7	2197.3	1845.6	1717.7
67.5°	9690.1	9995.3	10245.3	8338.6	5269.4	2784.4	1656.7	1156.8	1026.0	979.5
70°	10033.1	10541.7	9373.3	6129.7	3011.1	1357.3	895.2	761.5	744.1	732.4
72.5°	9733.7	9666.9	6998.8	3537.2	1319.5	747.0	648.1	627.8	624.9	627.8
75°	7960.8	7100.5	4185.3	1537.5	662.7	540.6	537.7	529.0	543.5	543.5
77.5°	3862.7	3377.3	1749.7	659.8	436.0	424.3	438.9	438.9	438.9	438.9
80°	895.2	991.1	624.9	401.1	316.8	316.8	348.8	351.7	337.1	331.3
82.5°	305.2	406.9	343.0	252.9	209.3	235.4	264.5	270.3	223.8	226.7
85°	151.1	238.3	186.0	145.3	107.5	145.3	171.5	180.2	154.0	148.2
87.5°	69.8	104.6	69.8	49.4	37.8	52.3	49.4	40.7	23.3	23.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)