

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: P481458

Luminaire Tested: **IFLD-L-SA7B-830-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481458  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-830-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

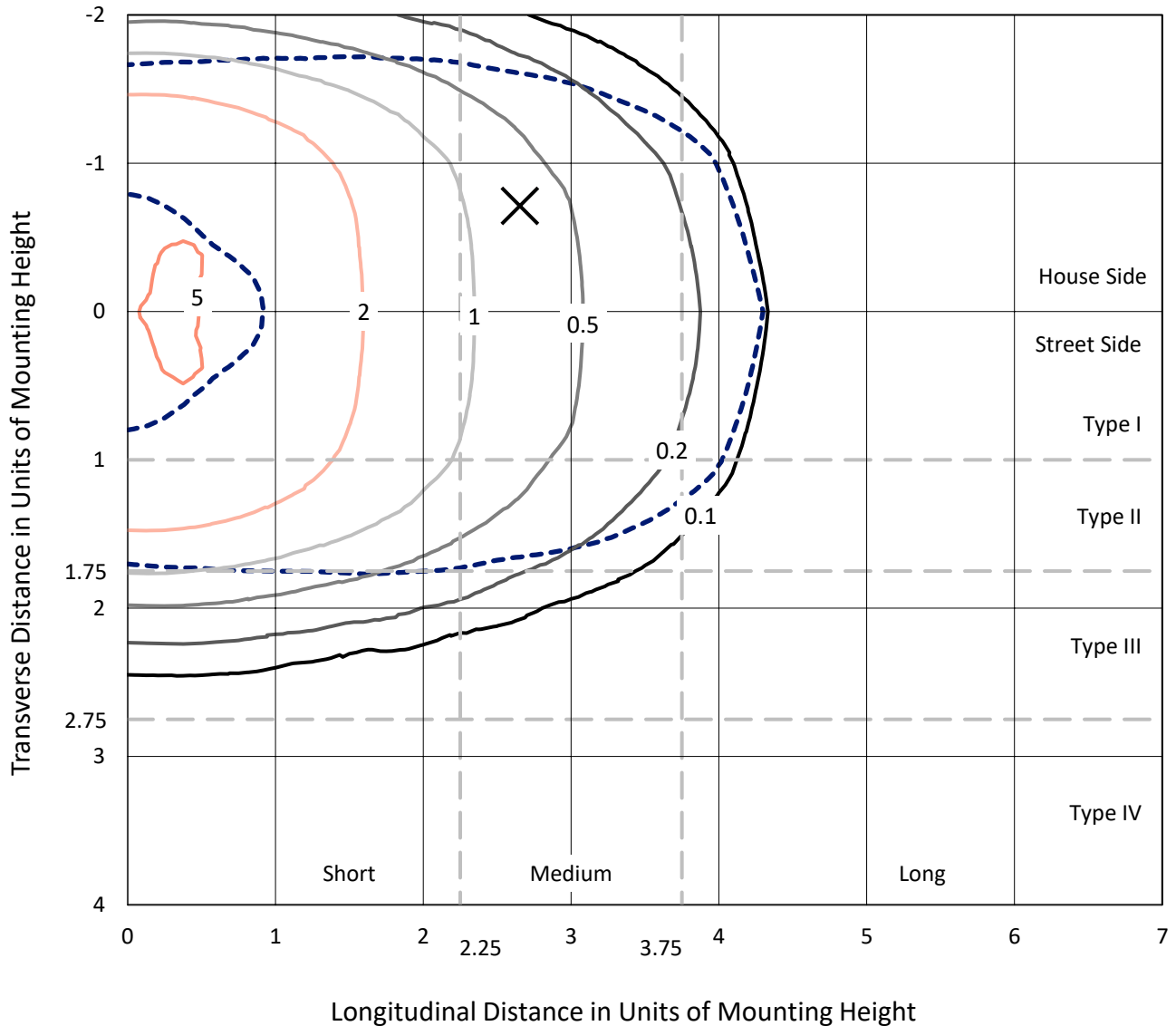
Lumens per Lamp: N/A  
Luminaire Lumens: 29147.1 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

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

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### Iso-Footcandle Lines of Horizontal Illumination

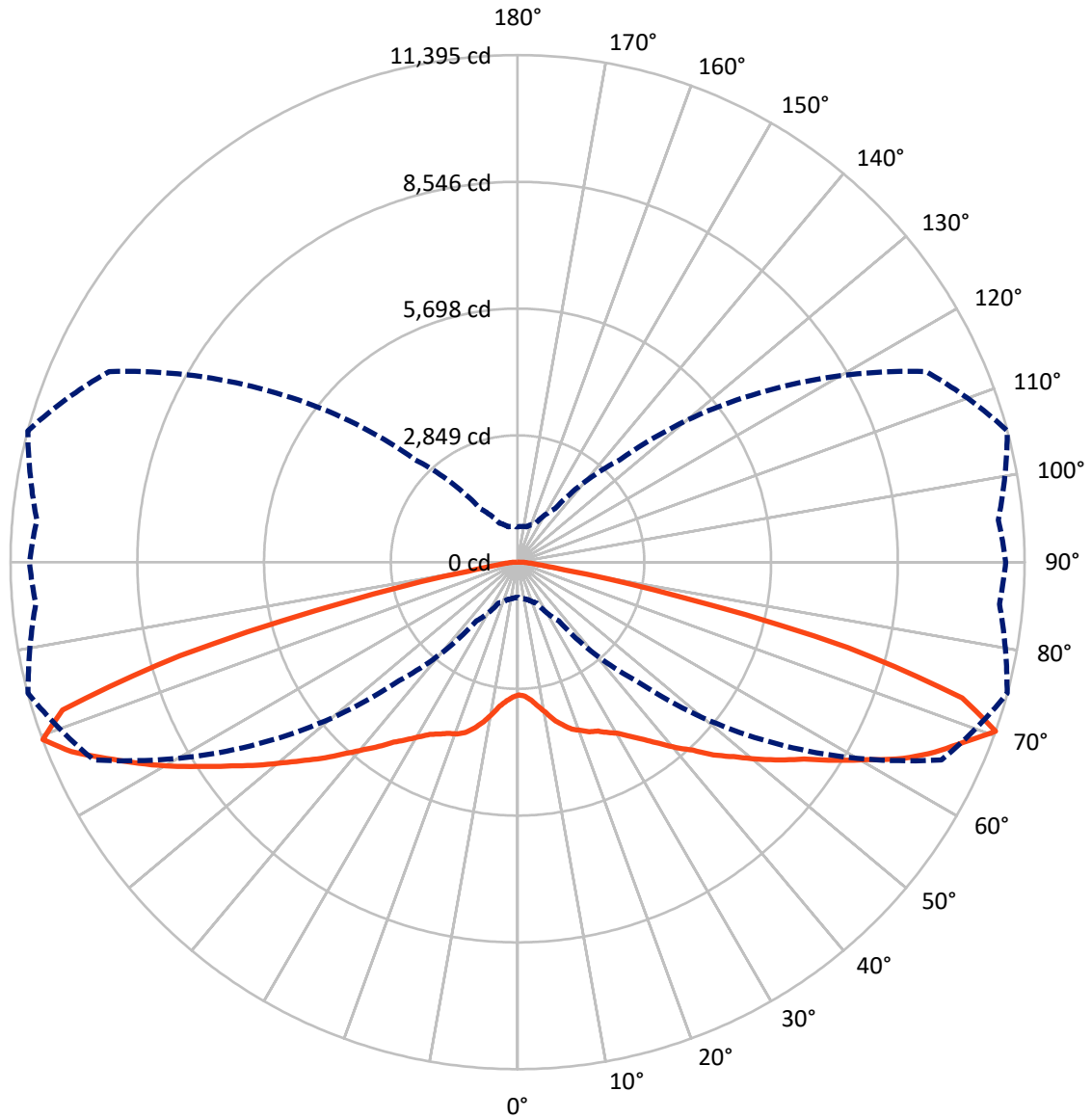
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - N/A

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### 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	14469.8	0.0	14469.8
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	14677.2	0.0	14677.2
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	29147.1	0.0	29147.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.1	1.0
10°-20°	1011.5	3.5
20°-30°	1958.6	6.7
30°-40°	3312.8	11.4
40°-50°	5284.9	18.1
50°-60°	7233.9	24.8
60°-70°	6818.5	23.4
70°-80°	3003.7	10.3
80°-90°	226.0	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°	29147.1	100.0
0°-180°	29147.1	100.0

**Coefficient of Utilization**



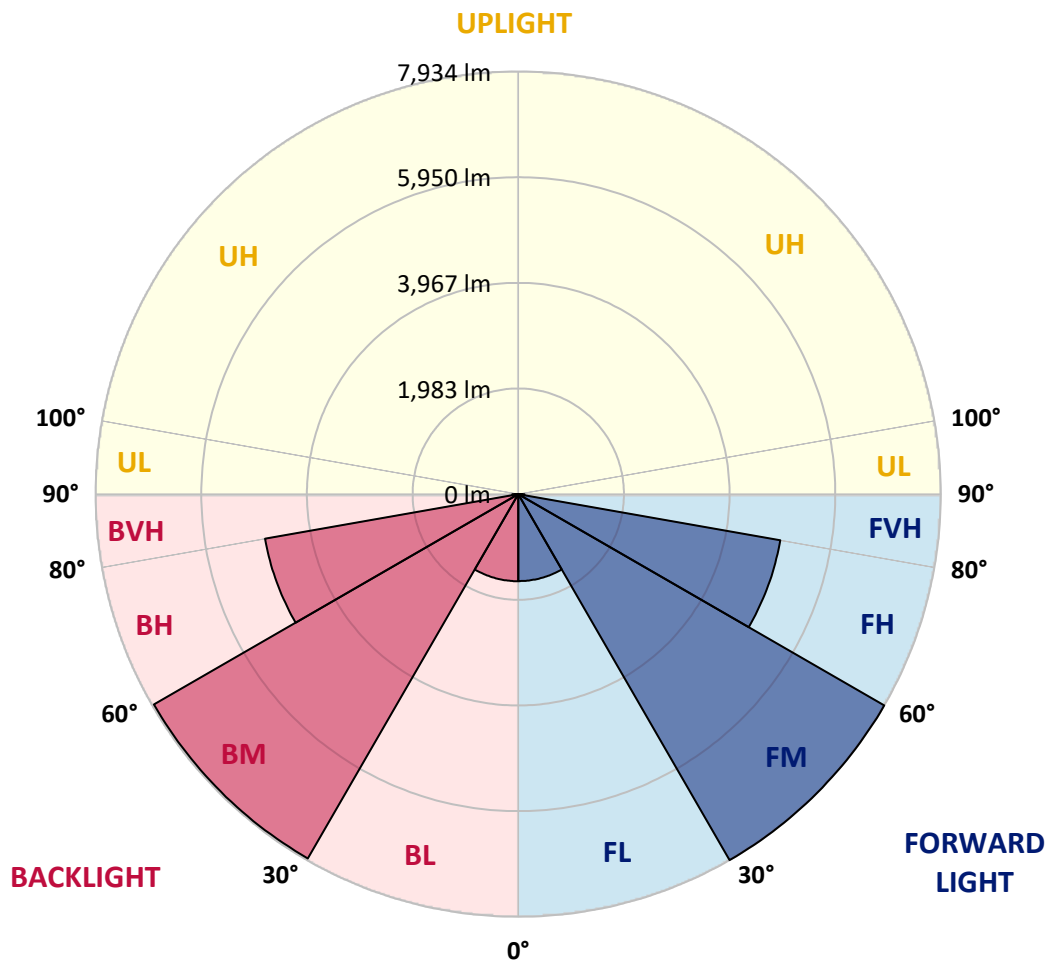
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1632.7	5.6			
FM (30°-60°)	7933.6	27.2			
FH (60°-80°)	4995.5	17.1			G2/5000
FVH (80°-90°)	115.4	0.4			G2/225
BL (0°-30°)	1634.5	5.6	B3/2500		
BM (30°-60°)	7898.1	27.1	B4/8500		
BH (60°-80°)	4826.7	16.6	B4/5000		G4/5000
BVH (80°-90°)	110.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2984.6	2984.6	2984.6	2984.6	2984.6	2984.6	2984.6	2984.6	2984.6	2984.6	2984.6
2.5°	2965.8	2965.8	2962.6	2978.3	2994.1	3000.3	3012.9	3016.0	3034.9	3019.2	3050.6
5°	2956.4	2953.2	2978.3	3016.0	3016.0	3056.9	3082.0	3116.6	3126.0	3144.9	3151.1
7.5°	3022.3	3016.0	3003.5	3044.3	3078.9	3141.7	3176.3	3236.0	3258.0	3283.1	3311.4
10°	3063.2	3063.2	3050.6	3122.9	3154.3	3239.1	3314.5	3374.2	3459.0	3487.3	3490.4
12.5°	3069.5	3078.9	3116.6	3210.8	3298.8	3408.8	3465.3	3578.4	3663.2	3716.6	3735.5
15°	3163.7	3144.9	3185.7	3314.5	3443.3	3540.7	3641.2	3722.9	3845.5	3914.6	3958.6
17.5°	3248.5	3229.7	3305.1	3459.0	3591.0	3741.8	3829.8	3917.7	4005.7	4068.5	4071.7
20°	3383.6	3399.3	3465.3	3631.8	3804.6	3936.6	4037.1	4052.8	4096.8	4187.9	4172.2
22.5°	3550.1	3537.6	3675.8	3858.0	4046.5	4156.5	4213.0	4172.2	4150.2	4247.6	4269.6
25°	3716.6	3754.3	3880.0	4049.7	4275.9	4423.5	4439.2	4326.1	4244.5	4279.0	4269.6
27.5°	3971.1	3977.4	4109.4	4310.4	4539.8	4668.6	4659.2	4498.9	4341.9	4345.0	4351.3
30°	4297.9	4266.4	4411.0	4593.2	4819.4	4935.6	4951.3	4722.0	4511.5	4448.7	4464.4
32.5°	4612.0	4649.7	4775.4	4982.8	5149.3	5215.2	5180.7	4976.5	4703.1	4618.3	4627.7
35°	5014.2	5007.9	5180.7	5356.6	5482.3	5494.9	5466.6	5168.1	4910.5	4800.5	4756.6
37.5°	5444.6	5501.1	5614.2	5758.8	5890.7	5897.0	5743.1	5504.3	5187.0	5004.8	5058.2
40°	5925.3	5988.1	6069.8	6280.3	6377.7	6277.1	6120.1	5796.5	5466.6	5306.4	5331.5
42.5°	6349.4	6377.7	6544.2	6792.4	6839.5	6795.5	6563.0	6170.3	5787.0	5611.1	5623.7
45°	6739.0	6776.7	6993.5	7216.5	7326.5	7251.1	6980.9	6607.0	6160.9	6010.1	5950.4
47.5°	7097.1	7172.5	7383.0	7612.4	7782.0	7788.3	7455.3	7002.9	6531.6	6333.7	6330.6
50°	7339.0	7449.0	7656.4	7917.1	8165.3	8262.7	7929.7	7442.7	6936.9	6726.4	6704.4
52.5°	7471.0	7584.1	7791.5	8196.7	8473.2	8624.0	8466.9	7854.3	7411.3	7191.4	7156.8
55°	7310.8	7386.2	7725.5	8294.1	8721.4	8969.6	8865.9	8422.9	7882.6	7703.5	7734.9
57.5°	6629.0	6786.1	7204.0	7914.0	8715.1	9324.6	9315.2	8960.2	8426.1	8256.4	8262.7
60°	5457.2	5589.1	6104.4	7097.1	8363.2	9469.1	9802.2	9481.7	9035.6	8837.6	8831.4
62.5°	3851.7	4018.3	4615.2	5699.1	7326.5	9268.1	10361.4	10138.3	9632.5	9488.0	9541.4
65°	2155.2	2255.8	2808.7	3788.9	5582.8	8162.2	10461.9	10820.1	10238.8	10018.9	10028.4
67.5°	1153.0	1190.7	1448.3	1988.7	3415.0	6292.9	9447.1	11212.8	10895.5	10515.3	10455.6
70°	791.7	804.3	870.3	1017.9	1614.8	3763.8	7125.4	10512.2	11388.7	10870.3	10970.9
72.5°	669.2	662.9	678.6	694.3	845.1	1684.0	4181.6	8089.9	10750.9	10556.2	10518.5
75°	581.2	578.1	584.4	568.7	587.5	741.4	1850.5	5042.5	7870.0	8784.2	8925.6
77.5°	480.7	483.8	487.0	471.3	465.0	490.1	744.6	2214.9	3873.7	4275.9	4612.0
80°	364.4	370.7	395.9	380.1	355.0	358.2	439.8	741.4	1112.2	1008.5	1039.9
82.5°	248.2	251.3	304.7	285.9	267.0	241.9	282.8	383.3	433.6	329.9	289.0
85°	175.9	172.8	197.9	182.2	169.7	122.5	169.7	216.8	260.8	163.4	147.7
87.5°	40.8	40.8	81.7	66.0	62.8	50.3	66.0	84.8	113.1	72.3	66.0
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2984.6	2984.6	2984.6	2984.6	2984.6	2984.6	2984.6	2984.6	2984.6	2984.6
2.5°	3041.2	3012.9	3012.9	3006.6	2981.5	2975.2	2953.2	2959.5	2943.8	2928.1
5°	3148.0	3110.3	3110.3	3056.9	3006.6	3000.3	2975.2	2975.2	2950.1	2956.4
7.5°	3295.7	3261.1	3204.5	3157.4	3088.3	3060.0	3012.9	3006.6	3000.3	2987.8
10°	3471.6	3427.6	3371.1	3273.7	3217.1	3163.7	3116.6	3050.6	3034.9	3038.0
12.5°	3710.4	3641.2	3518.7	3433.9	3361.6	3292.5	3223.4	3126.0	3104.0	3113.4
15°	3880.0	3792.1	3669.5	3638.1	3540.7	3455.9	3342.8	3232.8	3195.1	3185.7
17.5°	4018.3	3946.0	3873.7	3826.6	3748.1	3644.4	3487.3	3361.6	3276.8	3267.4
20°	4131.4	4037.1	4021.4	4049.7	3952.3	3883.2	3691.5	3537.6	3424.5	3377.3
22.5°	4200.5	4140.8	4184.8	4209.9	4203.6	4087.4	3889.4	3710.4	3569.0	3525.0
25°	4275.9	4206.8	4363.8	4448.7	4470.7	4279.0	4125.1	3889.4	3751.2	3722.9
27.5°	4313.6	4338.7	4520.9	4700.0	4684.3	4536.6	4329.3	4118.8	4008.8	3958.6
30°	4423.5	4464.4	4740.8	4941.9	4945.1	4800.5	4643.5	4404.7	4282.2	4260.2
32.5°	4621.5	4671.7	4967.1	5180.7	5218.4	5108.4	4951.3	4803.7	4678.0	4627.7
35°	4772.3	4901.1	5234.1	5428.9	5529.4	5463.4	5375.5	5221.5	5089.6	5045.6
37.5°	4989.0	5168.1	5488.6	5752.5	5865.6	5859.3	5793.3	5626.8	5516.9	5479.2
40°	5300.1	5479.2	5771.3	6120.1	6330.6	6321.1	6283.4	6154.6	5991.3	5972.4
42.5°	5630.0	5777.6	6157.8	6556.8	6858.4	6826.9	6726.4	6575.6	6462.5	6437.4
45°	5950.4	6179.8	6531.6	7043.7	7269.9	7348.5	7229.1	6971.5	6842.7	6826.9
47.5°	6352.5	6534.8	6974.6	7433.3	7769.5	7782.0	7577.8	7339.0	7103.4	7153.7
50°	6710.7	6952.6	7398.7	7901.4	8303.6	8159.0	7898.3	7599.8	7430.2	7364.2
52.5°	7094.0	7389.3	7907.7	8419.8	8642.9	8498.3	8074.2	7741.2	7483.6	7455.3
55°	7653.2	7807.2	8485.8	8878.5	8950.7	8646.0	8020.8	7549.5	7216.5	7134.8
57.5°	8221.9	8400.9	8994.7	9334.0	9258.6	8564.3	7675.2	6946.3	6509.6	6393.4
60°	8796.8	9016.7	9516.3	9827.3	9437.7	8001.9	6698.1	5758.8	5249.8	5146.1
62.5°	9437.7	9723.6	10169.7	10279.7	8906.8	6889.8	5315.8	4156.5	3641.2	3468.5
65°	10006.4	10298.5	10848.3	10185.4	7778.9	5139.8	3437.0	2375.1	1995.0	1856.8
67.5°	10474.5	10804.4	11074.5	9013.6	5695.9	3009.8	1790.8	1250.4	1109.0	1058.8
70°	10845.2	11395.0	10132.0	6625.9	3254.8	1467.2	967.6	823.1	804.3	791.7
72.5°	10521.6	10449.3	7565.3	3823.5	1426.3	807.4	700.6	678.6	675.5	678.6
75°	8605.2	7675.2	4524.1	1662.0	716.3	584.4	581.2	571.8	587.5	587.5
77.5°	4175.3	3650.7	1891.3	713.2	471.3	458.7	474.4	474.4	474.4	474.4
80°	967.6	1071.3	675.5	433.6	342.4	342.4	377.0	380.1	364.4	358.2
82.5°	329.9	439.8	370.7	273.3	226.2	254.5	285.9	292.2	241.9	245.1
85°	163.4	257.6	201.1	157.1	116.2	157.1	185.4	194.8	166.5	160.2
87.5°	75.4	113.1	75.4	53.4	40.8	56.6	53.4	44.0	25.1	25.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)