

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: P482970

Luminaire Tested: **IFLD-S-SA6C-827-U-T3R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482970  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-827-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

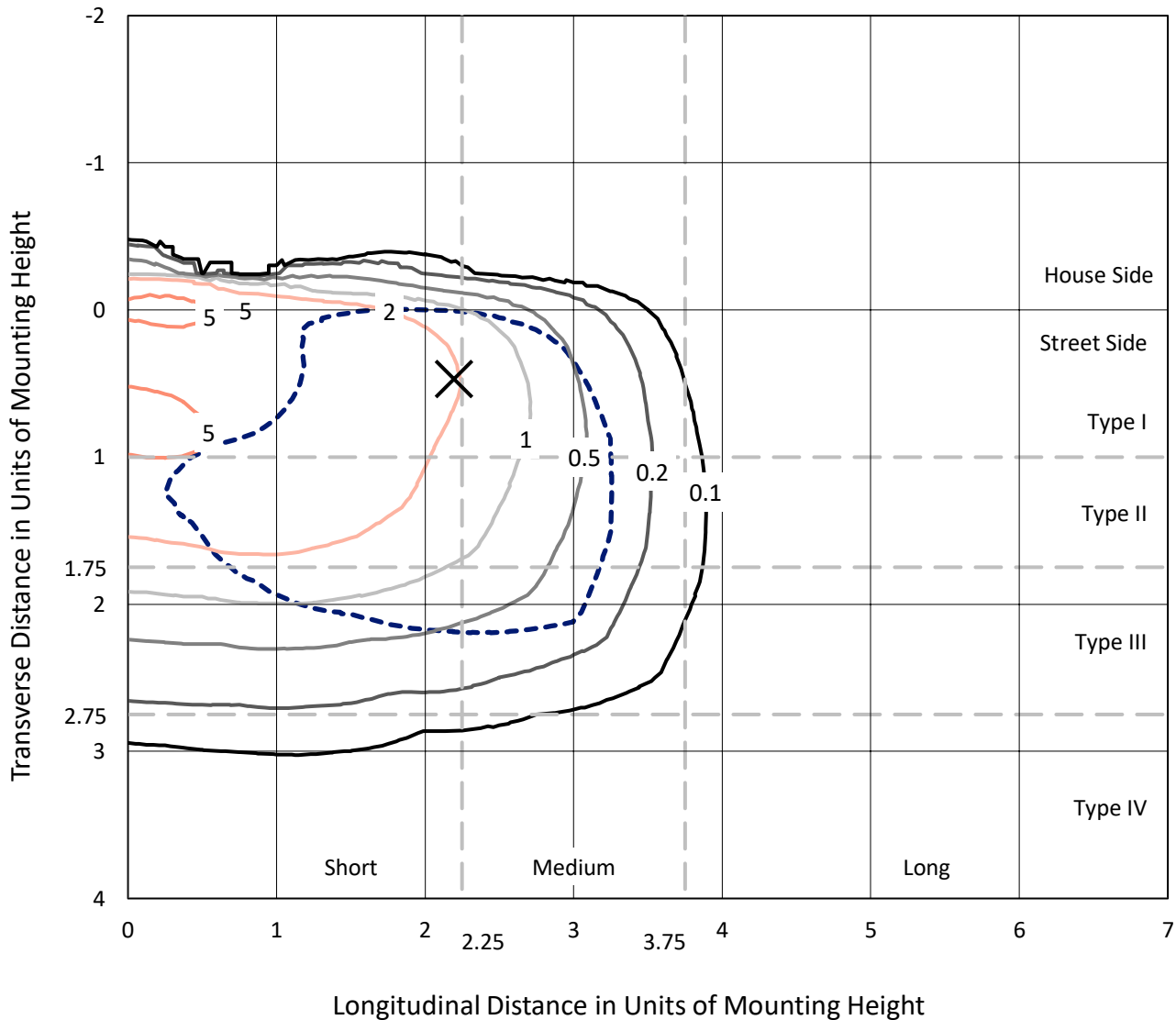
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21895.1 lumens  
Efficiency: N/A  
Efficacy: 68.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 321.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

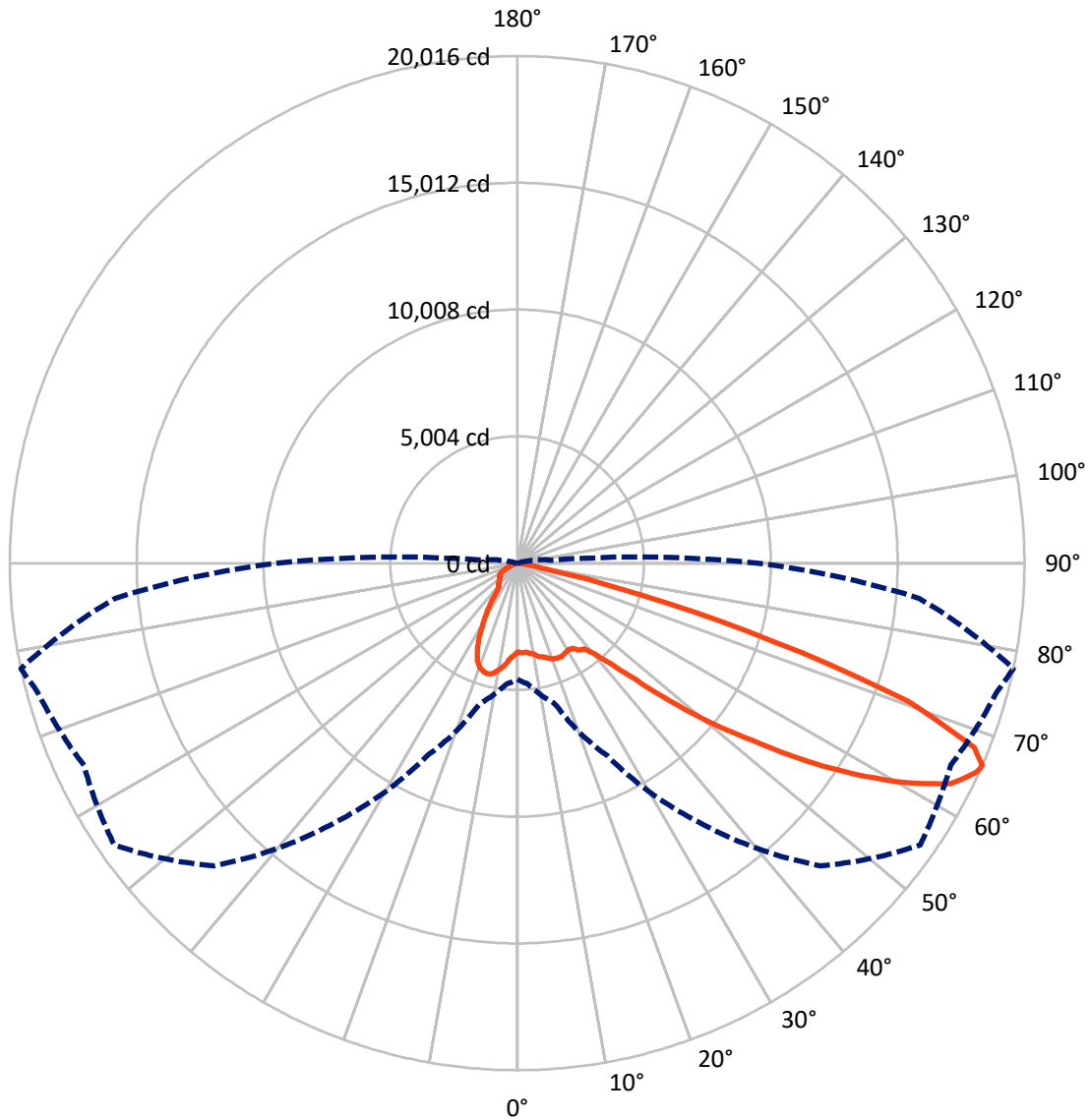
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1539.3	0.0	1539.3
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	20355.7	0.0	20355.7
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	21895.1	0.0	21895.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.8	1.5
10°-20°	724.2	3.3
20°-30°	1035.1	4.7
30°-40°	1771.9	8.1
40°-50°	3198.1	14.6
50°-60°	5469.1	25.0
60°-70°	6731.5	30.7
70°-80°	2544.9	11.6
80°-90°	99.4	0.5
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°	21895.1	100.0
0°-180°	21895.1	100.0

**Coefficient of Utilization**

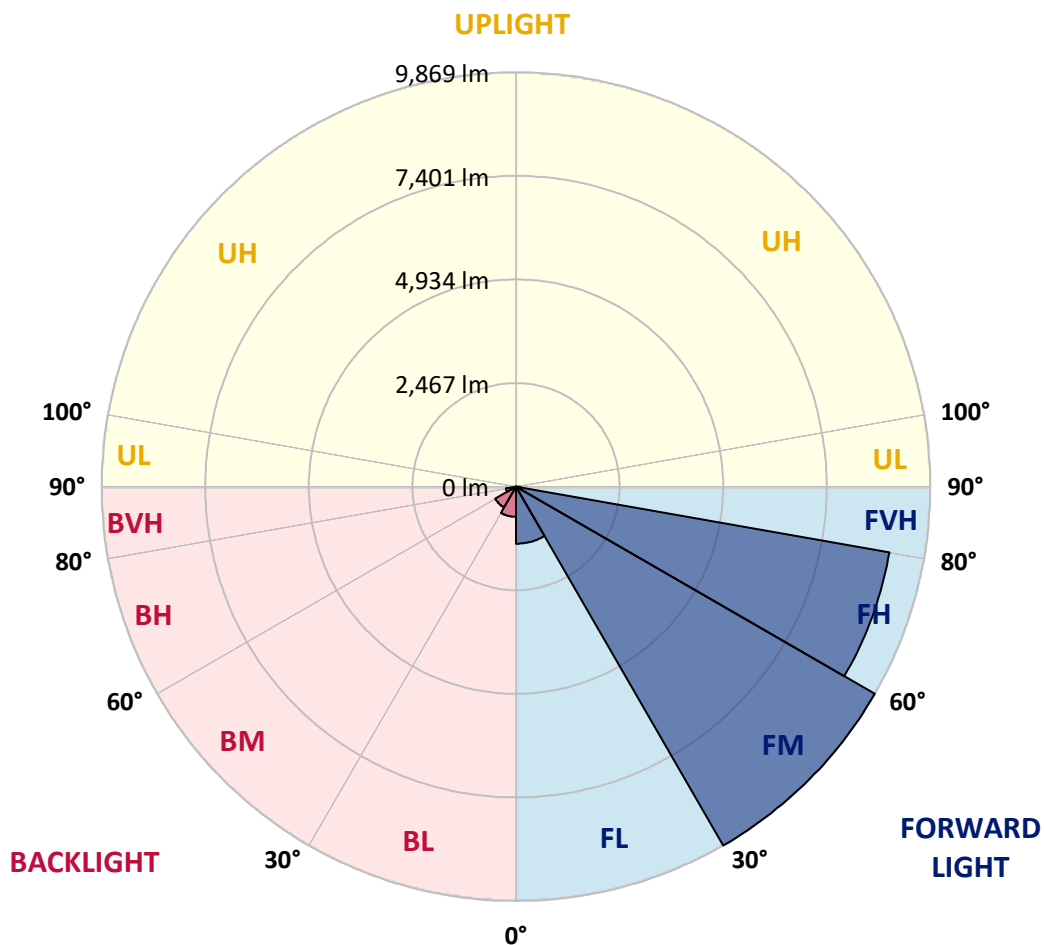


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1359.3	6.2			
FM (30°-60°)	9868.6	45.1			
FH (60°-80°)	9032.5	41.3			G4/12000
FVH (80°-90°)	95.4	0.4			G1/100
BL (0°-30°)	720.9	3.3	B2/1000		
BM (30°-60°)	570.5	2.6	B1/1000		
BH (60°-80°)	243.9	1.1	B1/500		G1/500
BVH (80°-90°)	4.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3506.9	3506.9	3506.9	3506.9	3506.9	3506.9	3506.9	3506.9	3506.9	3506.9	3506.9
2.5°	3225.7	3195.9	3225.7	3268.7	3291.8	3311.7	3381.2	3440.7	3503.6	3546.6	3533.3
5°	2990.8	3047.0	3053.6	3066.9	3103.3	3222.4	3262.1	3364.6	3520.1	3533.3	3592.9
7.5°	2805.5	2789.0	2832.0	2918.0	3010.6	3080.1	3195.9	3374.5	3536.7	3592.9	3708.7
10°	2537.5	2570.6	2616.9	2702.9	2815.4	2987.5	3192.6	3391.1	3622.7	3642.5	3857.6
12.5°	2392.0	2358.9	2431.7	2521.0	2712.9	2871.7	3123.1	3361.3	3675.6	3784.8	4032.9
15°	2272.9	2289.4	2358.9	2418.4	2577.2	2779.0	3073.5	3434.1	3764.9	3841.0	4218.2
17.5°	2223.2	2213.3	2266.2	2325.8	2521.0	2749.3	3053.6	3437.4	3844.3	3943.6	4343.9
20°	2246.4	2266.2	2249.7	2305.9	2428.3	2659.9	3083.4	3500.3	3903.9	4039.5	4479.5
22.5°	2610.3	2583.8	2451.5	2345.6	2352.3	2623.5	3060.2	3540.0	3956.8	4066.0	4572.2
25°	3559.8	3417.6	3090.0	2683.1	2415.1	2524.3	3033.8	3526.7	3946.9	4082.5	4628.4
27.5°	4515.9	4393.5	4072.6	3440.7	2669.9	2484.6	2941.1	3536.7	3897.3	4023.0	4535.8
30°	5525.0	5591.2	5114.7	4363.7	3338.2	2702.9	2881.6	3483.7	3864.2	3970.1	4555.6
32.5°	6560.5	6534.0	6246.2	5432.4	4294.3	3186.0	2977.5	3536.7	3907.2	4009.8	4671.4
35°	7371.1	7278.4	6987.3	6252.8	5085.0	3913.8	3308.4	3788.1	4095.8	4218.2	4836.8
37.5°	7771.4	7811.1	7642.3	7003.8	5951.8	4588.7	3721.9	3788.1	4155.3	4297.6	5104.8
40°	8082.4	8201.5	8138.6	7933.5	6811.9	5349.6	4178.5	4023.0	4456.4	4724.4	5607.7
42.5°	8456.2	8400.0	8770.5	8581.9	7936.8	6309.1	4979.1	4582.1	5167.7	5425.7	6362.0
45°	8654.7	8869.8	9151.0	9392.5	8978.9	7506.7	6024.6	5571.3	6256.1	6583.7	7483.5
47.5°	9164.2	9250.2	9706.8	10011.1	9825.9	8876.4	7612.6	7017.1	7625.8	8141.9	8767.2
50°	9462.0	9346.2	9984.7	10447.8	10553.7	10011.1	9035.2	8572.0	9253.5	9911.9	9968.1
52.5°	9200.6	9531.4	10169.9	11000.3	11294.8	11023.5	10705.9	10504.1	10983.8	11592.5	11321.3
55°	8284.2	8509.1	10064.1	11605.8	12555.3	12429.6	12724.0	12591.7	13074.7	13719.8	12902.7
57.5°	7546.4	7827.6	9194.0	11920.1	13729.8	14100.3	14470.8	14388.1	14970.4	15714.8	14242.6
60°	7086.5	7248.7	8565.4	11840.7	14424.5	15827.3	16664.3	16082.0	17031.5	17600.6	15291.3
62.5°	6289.2	6391.8	7649.0	10788.6	14632.9	17048.1	18467.4	17676.6	18500.4	19195.2	16045.6
65°	5042.0	5319.9	6358.7	9213.8	13256.7	17273.0	19592.2	18662.5	19459.9	19916.4	16273.9
66°	4588.7	4790.5	5743.3	8380.1	12472.6	16899.2	19403.6	18867.7	19598.8	20015.7	15923.2
67.5°	3807.9	3983.3	4740.9	7192.4	10868.0	16075.4	19536.0	18728.7	19704.7	19449.9	15453.4
70°	2521.0	2633.5	3242.2	4863.3	7569.6	13150.8	18120.0	17643.6	17322.7	16366.5	12082.2
72.5°	1177.8	1339.9	2024.7	2947.8	4439.8	9200.6	14775.2	14136.7	12148.4	10619.9	7622.5
75°	532.6	605.4	1111.6	1690.6	1991.6	4767.4	9531.4	8608.4	6047.7	5022.1	3338.2
77.5°	287.8	327.5	542.6	803.9	724.5	1670.7	4717.7	3923.7	1905.6	1396.1	969.4
80°	221.7	261.4	453.2	459.9	268.0	433.4	1753.4	1214.2	476.4	360.6	231.6
82.5°	115.8	165.4	357.3	297.8	135.6	175.3	542.6	337.5	148.9	119.1	99.3
85°	46.3	72.8	201.8	198.5	79.4	59.6	152.2	102.6	59.6	49.6	46.3
87.5°	3.3	3.3	109.2	76.1	49.6	16.5	23.2	23.2	29.8	26.5	33.1
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°	3506.9	3506.9	3506.9	3506.9	3506.9	3506.9	3506.9	3506.9	3506.9	3506.9	3506.9
2.5°	3592.9	3632.6	3639.2	3748.4	3771.5	3748.4	3807.9	3798.0	3824.5	3804.6	3768.2
5°	3675.6	3731.8	3841.0	3923.7	3923.7	3857.6	3804.6	3735.2	3632.6	3606.1	3586.3
7.5°	3817.9	3996.5	4095.8	4042.8	3937.0	3688.8	3344.8	3093.3	2881.6	2802.2	2765.8
10°	4069.3	4168.6	4284.3	4069.3	3629.3	3103.3	2524.3	2143.8	1846.1	1779.9	1730.3
12.5°	4231.4	4390.2	4456.4	3923.7	3060.2	2276.2	1647.6	1217.5	1009.1	850.3	823.8
15°	4443.1	4625.1	4489.5	3530.0	2411.8	1492.1	853.6	532.6	433.4	406.9	406.9
17.5°	4588.7	4787.2	4353.8	3040.4	1710.4	794.0	423.5	367.2	360.6	363.9	357.3
20°	4843.5	4962.6	4148.7	2471.4	1022.3	406.9	340.8	327.5	320.9	330.8	324.2
22.5°	4939.4	5048.6	3814.6	1789.8	459.9	271.3	254.7	244.8	251.4	248.1	244.8
25°	4932.8	4989.0	3265.4	1025.6	135.6	105.9	95.9	95.9	89.3	92.6	89.3
27.5°	4982.4	4843.5	2650.0	304.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5008.9	4608.6	1885.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5022.1	4486.2	1214.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	5124.7	4241.3	519.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5194.1	3927.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5482.0	3827.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5855.8	3642.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6375.2	3367.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7063.4	3205.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7576.2	2951.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8227.9	2798.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9002.1	2805.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9706.8	2759.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10067.4	2358.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9991.3	1908.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9726.6	1498.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	9544.7	1326.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8992.2	1062.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7156.0	727.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4552.3	446.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2097.5	205.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	658.4	125.7	26.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	172.0	79.4	26.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	89.3	56.2	23.2	9.9	6.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	56.2	23.2	9.9	6.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	49.6	13.2	6.6	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
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)