

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: P481145

Luminaire Tested: **IFLD-L-SA7A-722-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481145  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-722-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

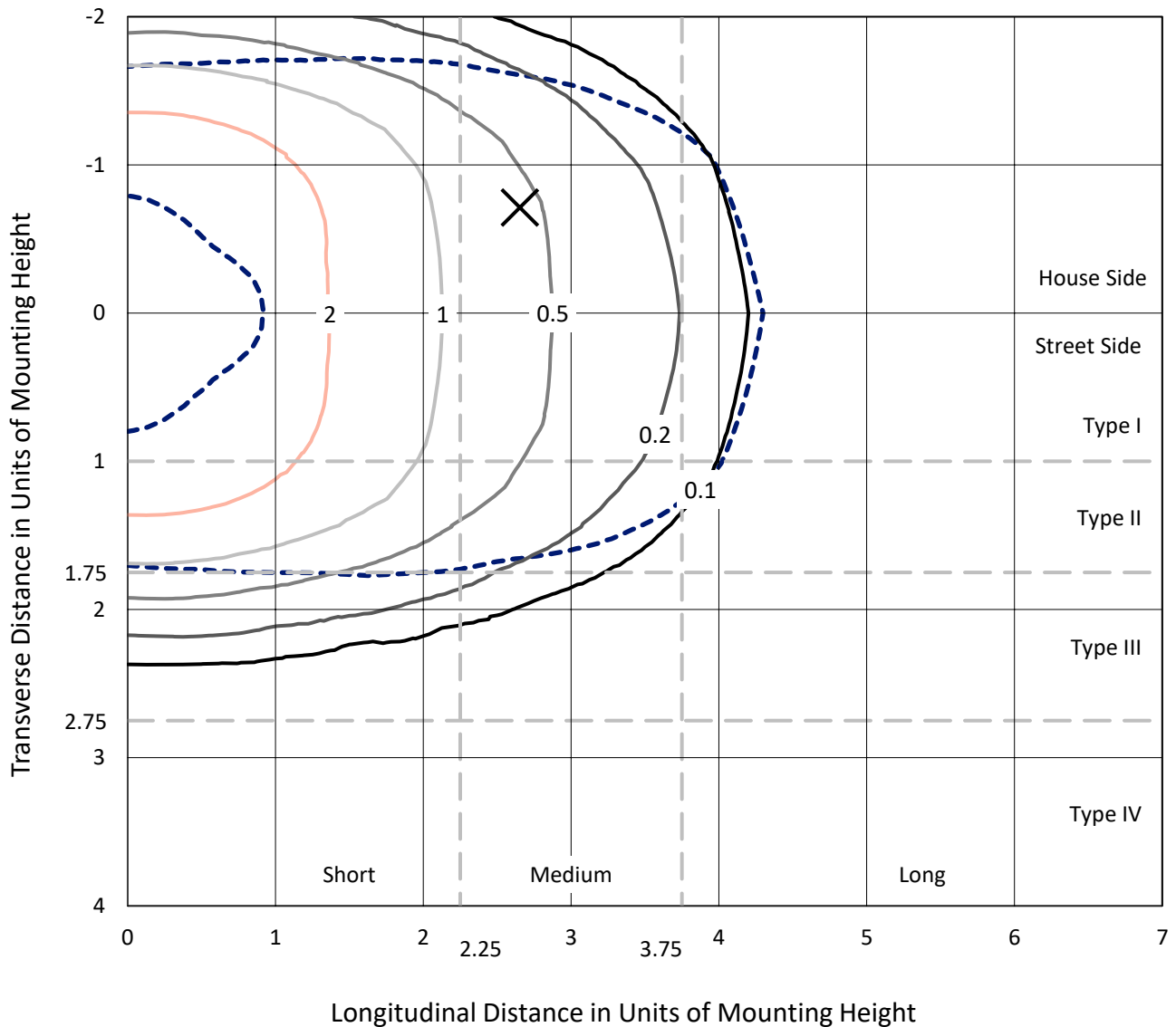
Lumens per Lamp: N/A  
Luminaire Lumens: 23748.3 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 217.6  
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

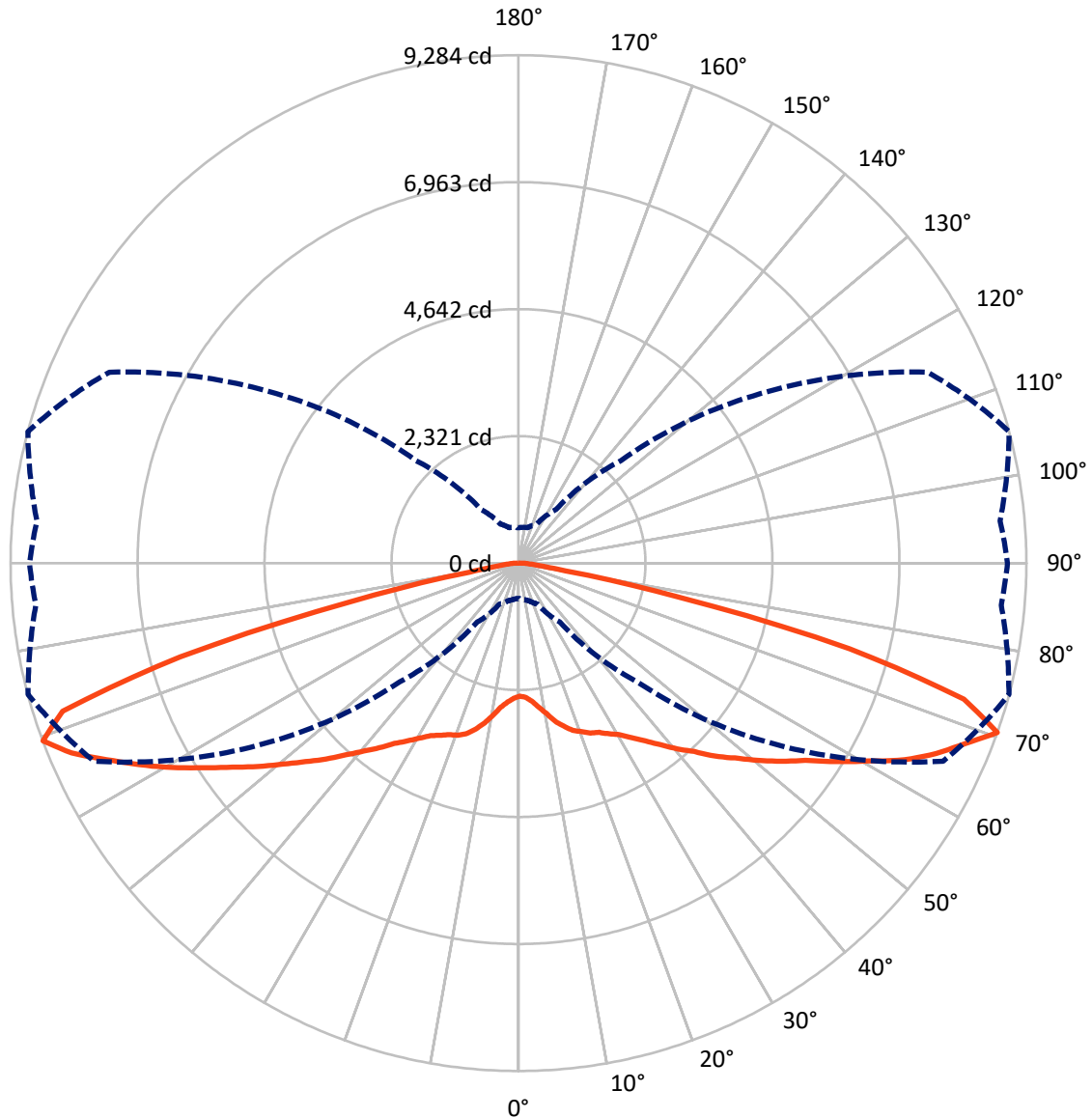
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	11789.7	0.0	11789.7
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	11958.6	0.0	11958.6
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	23748.3	0.0	23748.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.0	1.0
10°-20°	824.1	3.5
20°-30°	1595.8	6.7
30°-40°	2699.2	11.4
40°-50°	4306.0	18.1
50°-60°	5894.0	24.8
60°-70°	5555.5	23.4
70°-80°	2447.4	10.3
80°-90°	184.1	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°	23748.3	100.0
0°-180°	23748.3	100.0

**Coefficient of Utilization**

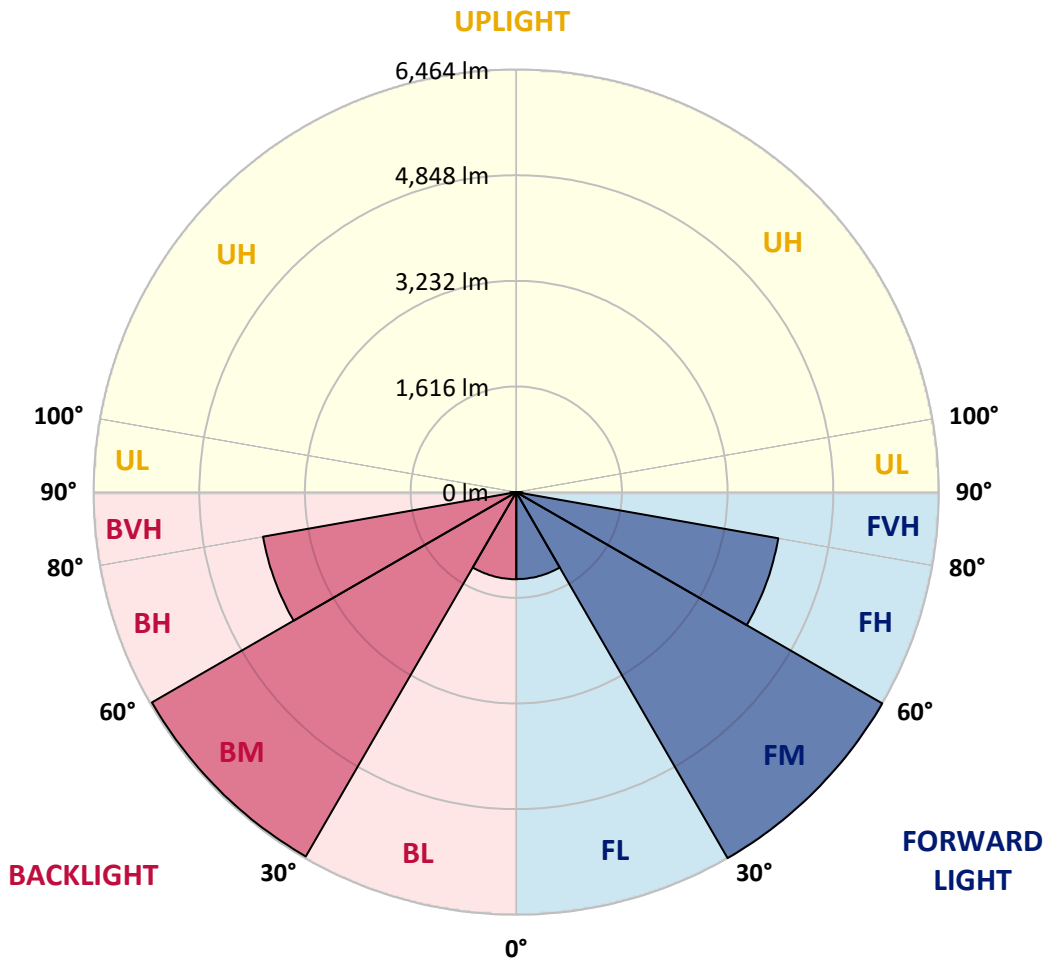


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1330.3	5.6			
FM (30°-60°)	6464.1	27.2			
FH (60°-80°)	4070.2	17.1			G2/5000
FVH (80°-90°)	94.1	0.4			G1/100
BL (0°-30°)	1331.7	5.6	B3/2500		
BM (30°-60°)	6435.2	27.1	B4/8500		
BH (60°-80°)	3932.7	16.6	B4/5000		G4/5000
BVH (80°-90°)	90.1	0.4			G1/100
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°	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8
2.5°	2416.4	2416.4	2413.9	2426.7	2439.5	2444.6	2454.8	2457.4	2472.8	2460.0	2485.6
5°	2408.8	2406.2	2426.7	2457.4	2457.4	2490.7	2511.2	2539.3	2547.0	2562.3	2567.5
7.5°	2462.5	2457.4	2447.2	2480.4	2508.6	2559.8	2587.9	2636.6	2654.5	2675.0	2698.0
10°	2495.8	2495.8	2485.6	2544.4	2570.0	2639.1	2700.6	2749.2	2818.3	2841.4	2843.9
12.5°	2500.9	2508.6	2539.3	2616.1	2687.8	2777.4	2823.4	2915.6	2984.7	3028.2	3043.6
15°	2577.7	2562.3	2595.6	2700.6	2805.5	2884.9	2966.8	3033.4	3133.2	3189.5	3225.3
17.5°	2646.8	2631.5	2692.9	2818.3	2925.8	3048.7	3120.4	3192.1	3263.7	3314.9	3317.5
20°	2756.9	2769.7	2823.4	2959.1	3099.9	3207.4	3289.3	3302.1	3338.0	3412.2	3399.4
22.5°	2892.6	2882.3	2995.0	3143.4	3297.0	3386.6	3432.7	3399.4	3381.5	3460.8	3478.8
25°	3028.2	3058.9	3161.3	3299.6	3483.9	3604.2	3617.0	3524.8	3458.3	3486.4	3478.8
27.5°	3235.6	3240.7	3348.2	3512.0	3698.9	3803.8	3796.2	3665.6	3537.6	3540.2	3545.3
30°	3501.8	3476.2	3593.9	3742.4	3926.7	4021.4	4034.2	3847.4	3675.9	3624.7	3637.5
32.5°	3757.8	3788.5	3890.9	4059.8	4195.5	4249.3	4221.1	4054.7	3832.0	3762.9	3770.6
35°	4085.4	4080.3	4221.1	4364.4	4466.8	4477.1	4454.0	4210.9	4001.0	3911.4	3875.5
37.5°	4436.1	4482.2	4574.3	4692.1	4799.6	4804.7	4679.3	4484.8	4226.2	4077.7	4121.3
40°	4827.8	4879.0	4945.5	5117.0	5196.4	5114.5	4986.5	4722.8	4454.0	4323.5	4344.0
42.5°	5173.3	5196.4	5332.0	5534.3	5572.7	5536.8	5347.4	5027.4	4715.1	4571.8	4582.0
45°	5490.7	5521.5	5698.1	5879.8	5969.4	5908.0	5687.9	5383.2	5019.7	4896.9	4848.2
47.5°	5782.6	5844.0	6015.5	6202.4	6340.6	6345.7	6074.4	5705.8	5321.8	5160.5	5158.0
50°	5979.7	6069.3	6238.2	6450.7	6652.9	6732.2	6460.9	6064.1	5652.0	5480.5	5462.6
52.5°	6087.2	6179.3	6348.3	6678.5	6903.8	7026.6	6898.6	6399.5	6038.5	5859.4	5831.2
55°	5956.6	6018.1	6294.5	6757.8	7106.0	7308.2	7223.7	6862.8	6422.5	6276.6	6302.2
57.5°	5401.2	5529.1	5869.6	6448.1	7100.9	7597.5	7589.8	7300.5	6865.4	6727.1	6732.2
60°	4446.4	4553.9	4973.7	5782.6	6814.2	7715.2	7986.5	7725.4	7362.0	7200.7	7195.6
62.5°	3138.3	3274.0	3760.3	4643.5	5969.4	7551.4	8442.2	8260.4	7848.3	7730.6	7774.1
65°	1756.0	1837.9	2288.5	3087.1	4548.7	6650.3	8524.1	8815.9	8342.4	8163.2	8170.8
67.5°	939.4	970.2	1180.1	1620.3	2782.5	5127.3	7697.3	9135.9	8877.3	8567.6	8519.0
70°	645.1	655.3	709.1	829.4	1315.7	3066.6	5805.6	8565.1	9279.2	8856.9	8938.8
72.5°	545.2	540.1	552.9	565.7	688.6	1372.0	3407.1	6591.5	8759.6	8600.9	8570.2
75°	473.6	471.0	476.1	463.3	478.7	604.1	1507.7	4108.5	6412.3	7157.2	7272.4
77.5°	391.6	394.2	396.8	384.0	378.8	399.3	606.7	1804.7	3156.2	3483.9	3757.8
80°	296.9	302.1	322.5	309.7	289.3	291.8	358.4	604.1	906.2	821.7	847.3
82.5°	202.2	204.8	248.3	232.9	217.6	197.1	230.4	312.3	353.3	268.8	235.5
85°	143.3	140.8	161.3	148.5	138.2	99.8	138.2	176.6	212.5	133.1	120.3
87.5°	33.3	33.3	66.6	53.8	51.2	41.0	53.8	69.1	92.2	58.9	53.8
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°	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8
2.5°	2477.9	2454.8	2454.8	2449.7	2429.2	2424.1	2406.2	2411.3	2398.5	2385.7
5°	2564.9	2534.2	2534.2	2490.7	2449.7	2444.6	2424.1	2424.1	2403.6	2408.8
7.5°	2685.2	2657.1	2611.0	2572.6	2516.3	2493.2	2454.8	2449.7	2444.6	2434.4
10°	2828.6	2792.7	2746.7	2667.3	2621.2	2577.7	2539.3	2485.6	2472.8	2475.3
12.5°	3023.1	2966.8	2867.0	2797.8	2739.0	2682.7	2626.3	2547.0	2529.1	2536.8
15°	3161.3	3089.7	2989.8	2964.2	2884.9	2815.8	2723.6	2634.0	2603.3	2595.6
17.5°	3274.0	3215.1	3156.2	3117.8	3053.8	2969.4	2841.4	2739.0	2669.9	2662.2
20°	3366.1	3289.3	3276.5	3299.6	3220.2	3163.9	3007.8	2882.3	2790.2	2751.8
22.5°	3422.4	3373.8	3409.6	3430.1	3425.0	3330.3	3169.0	3023.1	2907.9	2872.1
25°	3483.9	3427.6	3555.5	3624.7	3642.6	3486.4	3361.0	3169.0	3056.4	3033.4
27.5°	3514.6	3535.1	3683.5	3829.4	3816.6	3696.3	3527.4	3355.9	3266.3	3225.3
30°	3604.2	3637.5	3862.7	4026.5	4029.1	3911.4	3783.4	3588.8	3489.0	3471.1
32.5°	3765.4	3806.4	4047.0	4221.1	4251.8	4162.2	4034.2	3913.9	3811.5	3770.6
35°	3888.3	3993.3	4264.6	4423.3	4505.2	4451.5	4379.8	4254.4	4146.9	4111.0
37.5°	4064.9	4210.9	4472.0	4687.0	4779.1	4774.0	4720.3	4584.6	4495.0	4464.3
40°	4318.4	4464.3	4702.3	4986.5	5158.0	5150.3	5119.6	5014.6	4881.5	4866.2
42.5°	4587.1	4707.5	5017.2	5342.3	5588.0	5562.4	5480.5	5357.6	5265.5	5245.0
45°	4848.2	5035.1	5321.8	5739.0	5923.4	5987.3	5890.1	5680.2	5575.2	5562.4
47.5°	5175.9	5324.4	5682.7	6056.5	6330.4	6340.6	6174.2	5979.7	5787.7	5828.6
50°	5467.7	5664.8	6028.3	6437.9	6765.5	6647.8	6435.3	6192.1	6053.9	6000.1
52.5°	5780.0	6020.6	6443.0	6860.2	7042.0	6924.2	6578.7	6307.3	6097.4	6074.4
55°	6235.6	6361.1	6914.0	7234.0	7292.8	7044.5	6535.1	6151.2	5879.8	5813.3
57.5°	6699.0	6844.9	7328.7	7605.1	7543.7	6978.0	6253.6	5659.7	5303.9	5209.2
60°	7167.4	7346.6	7753.6	8007.0	7689.6	6519.8	5457.5	4692.1	4277.4	4192.9
62.5°	7689.6	7922.5	8286.0	8375.6	7257.0	5613.6	4331.2	3386.6	2966.8	2826.0
65°	8152.9	8391.0	8839.0	8298.8	6338.0	4187.8	2800.4	1935.2	1625.5	1512.8
67.5°	8534.3	8803.1	9023.3	7344.0	4640.9	2452.3	1459.1	1018.8	903.6	862.6
70°	8836.4	9284.4	8255.3	5398.6	2651.9	1195.4	788.4	670.7	655.3	645.1
72.5°	8572.7	8513.9	6164.0	3115.3	1162.1	657.9	570.8	552.9	550.4	552.9
75°	7011.3	6253.6	3686.1	1354.1	583.6	476.1	473.6	465.9	478.7	478.7
77.5°	3402.0	2974.5	1541.0	581.1	384.0	373.7	386.5	386.5	386.5	386.5
80°	788.4	872.9	550.4	353.3	279.0	279.0	307.2	309.7	296.9	291.8
82.5°	268.8	358.4	302.1	222.7	184.3	207.3	232.9	238.1	197.1	199.7
85°	133.1	209.9	163.8	128.0	94.7	128.0	151.0	158.7	135.7	130.5
87.5°	61.4	92.2	61.4	43.5	33.3	46.1	43.5	35.8	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)