

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: P481174

Luminaire Tested: **IFLD-S-SA6A-727-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481174
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-727-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

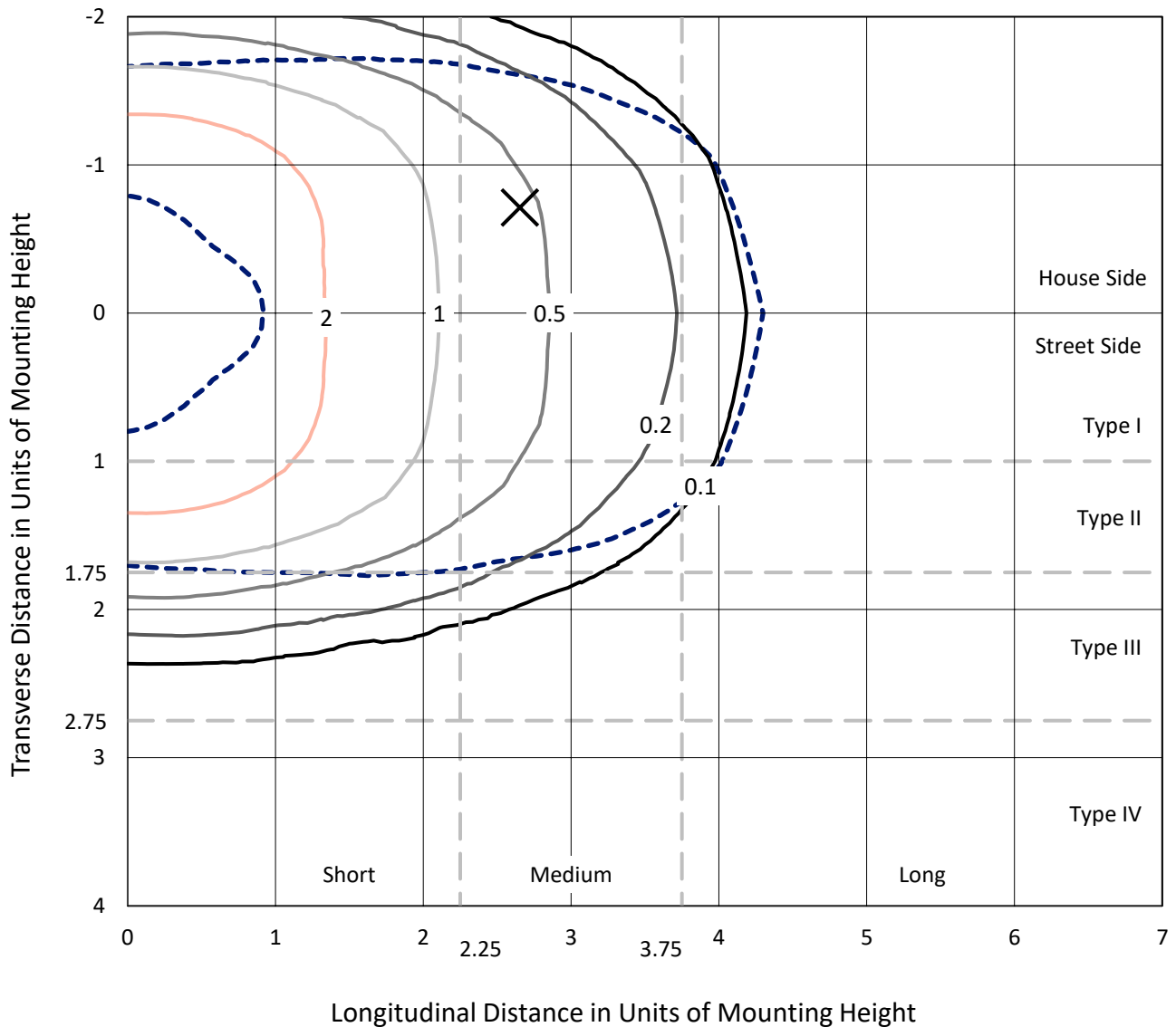
Lumens per Lamp: N/A
Luminaire Lumens: 23249.4 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 189.6
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

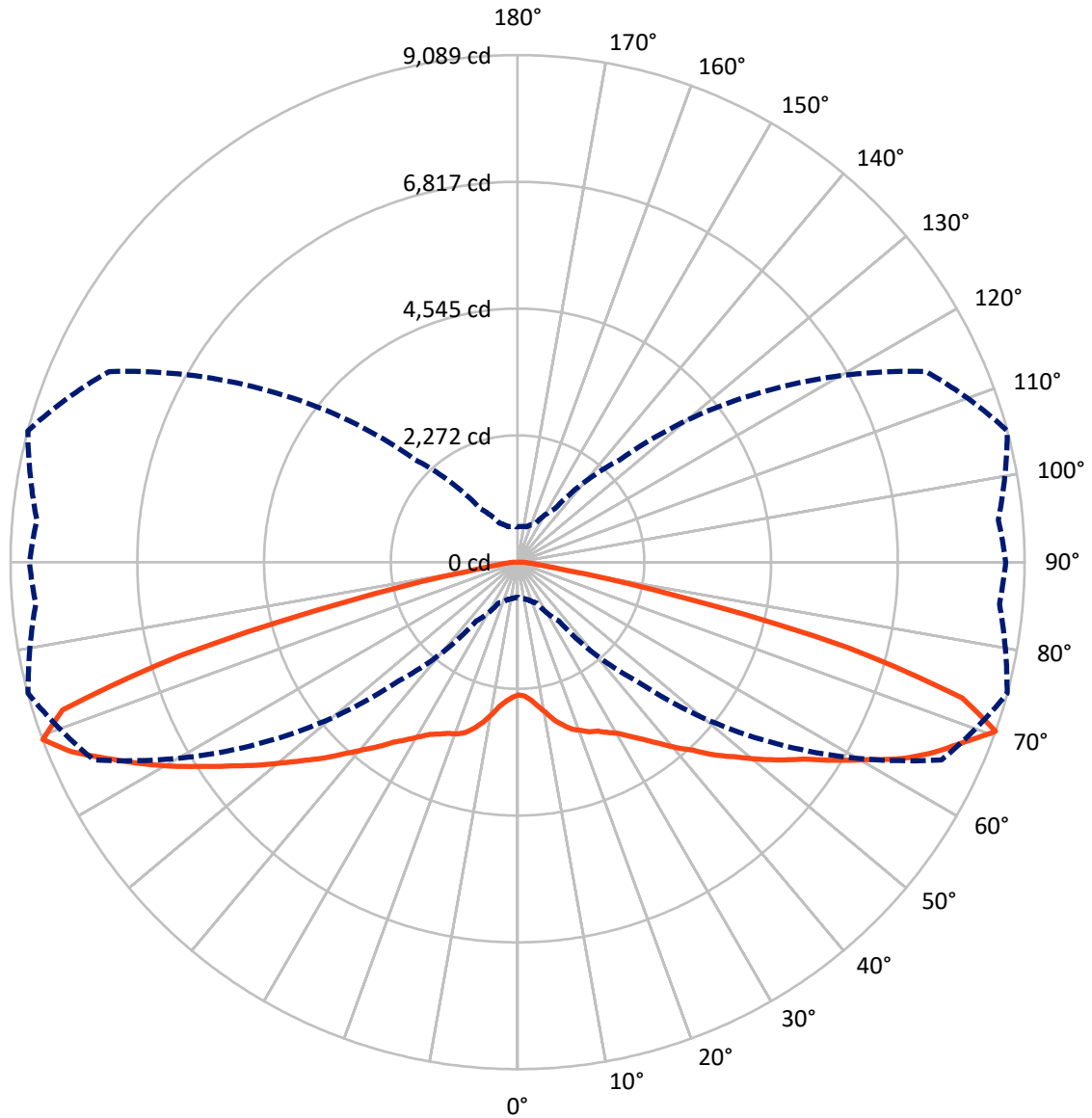
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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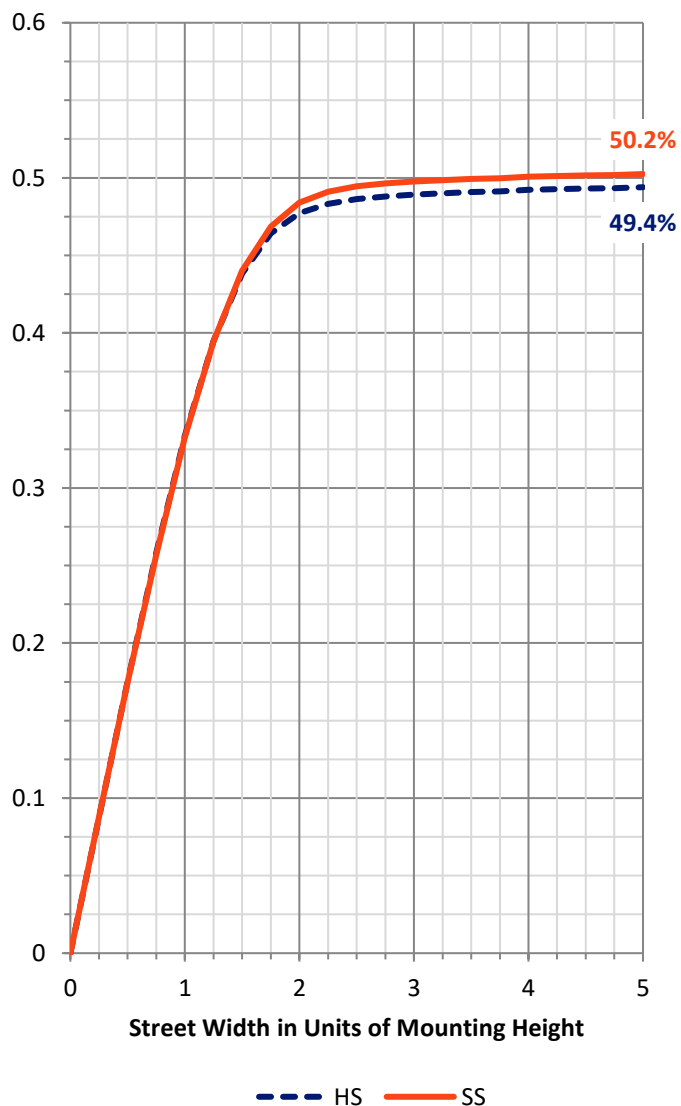
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11542.0	0.0	11542.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	11707.4	0.0	11707.4
	% Fixture	50.4	0.0	50.4
Total	Lumens	23249.4	0.0	23249.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.0	1.0
10°-20°	806.8	3.5
20°-30°	1562.3	6.7
30°-40°	2642.5	11.4
40°-50°	4215.6	18.1
50°-60°	5770.2	24.8
60°-70°	5438.8	23.4
70°-80°	2395.9	10.3
80°-90°	180.3	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°	23249.4	100.0
0°-180°	23249.4	100.0

Coefficient of Utilization



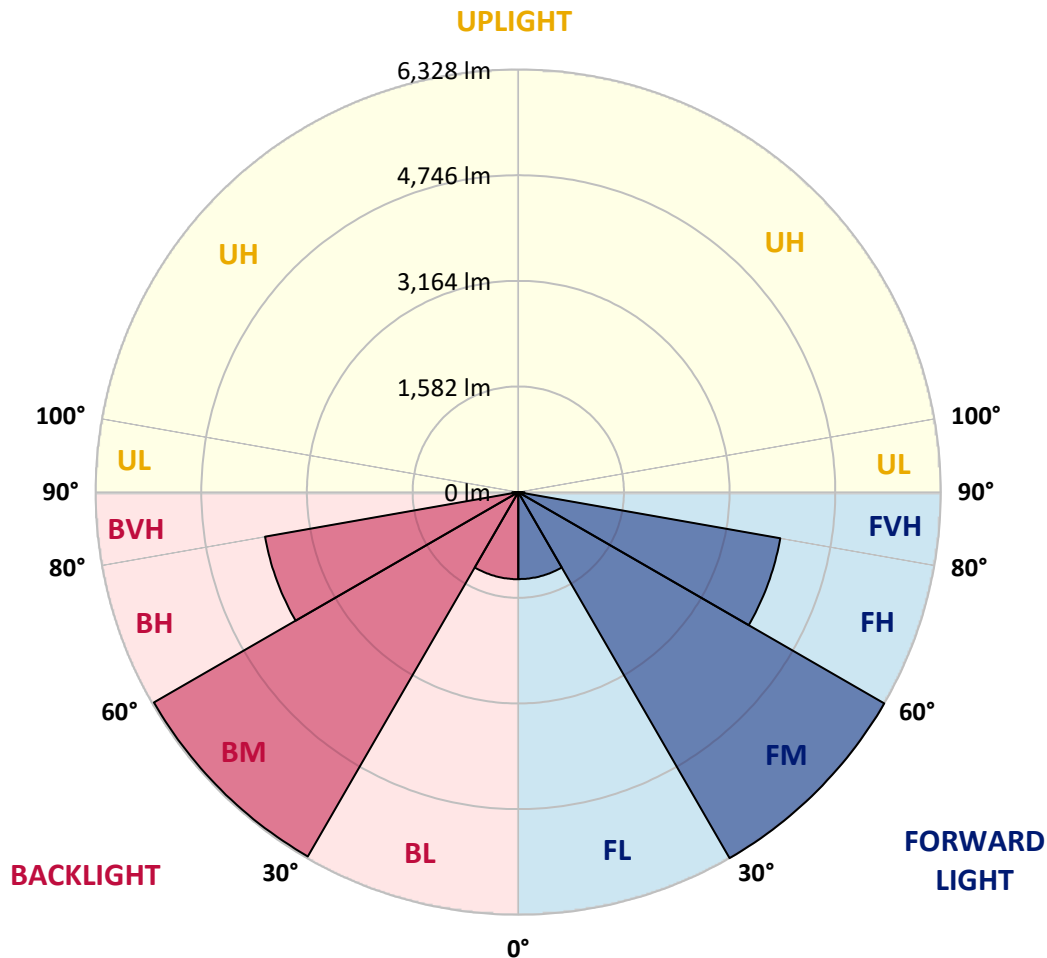
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1302.3	5.6			
FM (30°-60°)	6328.3	27.2			
FH (60°-80°)	3984.7	17.1			G2/5000
FVH (80°-90°)	92.1	0.4			G1/100
BL (0°-30°)	1303.8	5.6	B3/2500		
BM (30°-60°)	6300.0	27.1	B4/8500		
BH (60°-80°)	3850.1	16.6	B4/5000		G4/5000
BVH (80°-90°)	88.2	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°	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7
2.5°	2365.7	2365.7	2363.2	2375.7	2388.2	2393.3	2403.3	2405.8	2420.8	2408.3	2433.3
5°	2358.2	2355.7	2375.7	2405.8	2405.8	2438.4	2458.4	2486.0	2493.5	2508.5	2513.5
7.5°	2410.8	2405.8	2395.8	2428.3	2455.9	2506.0	2533.6	2581.2	2598.7	2618.8	2641.3
10°	2443.4	2443.4	2433.3	2491.0	2516.0	2583.7	2643.9	2691.5	2759.1	2781.7	2784.2
12.5°	2448.4	2455.9	2486.0	2561.2	2631.3	2719.0	2764.1	2854.4	2922.0	2964.6	2979.7
15°	2523.6	2508.5	2541.1	2643.9	2746.6	2824.3	2904.5	2969.6	3067.4	3122.5	3157.6
17.5°	2591.2	2576.2	2636.3	2759.1	2864.4	2984.7	3054.8	3125.0	3195.2	3245.3	3247.8
20°	2699.0	2711.5	2764.1	2897.0	3034.8	3140.0	3220.2	3232.8	3267.9	3340.5	3328.0
22.5°	2831.8	2821.8	2932.0	3077.4	3227.8	3315.5	3360.6	3328.0	3310.5	3388.1	3405.7
25°	2964.6	2994.7	3094.9	3230.3	3410.7	3528.5	3541.0	3450.8	3385.6	3413.2	3405.7
27.5°	3167.6	3172.6	3277.9	3438.3	3621.2	3723.9	3716.4	3588.6	3463.3	3465.8	3470.8
30°	3428.2	3403.2	3518.5	3663.8	3844.2	3937.0	3949.5	3766.6	3598.6	3548.5	3561.1
32.5°	3678.8	3708.9	3809.2	3974.6	4107.4	4160.0	4132.4	3969.5	3751.5	3683.9	3691.4
35°	3999.6	3994.6	4132.4	4272.8	4373.0	4383.0	4360.5	4122.4	3916.9	3829.2	3794.1
37.5°	4342.9	4388.0	4478.3	4593.5	4698.8	4703.8	4581.0	4390.6	4137.4	3992.1	4034.7
40°	4726.4	4776.5	4841.6	5009.5	5087.2	5007.0	4881.7	4623.6	4360.5	4232.7	4252.7
42.5°	5064.7	5087.2	5220.0	5418.0	5455.6	5420.5	5235.1	4921.8	4616.1	4475.8	4485.8
45°	5375.4	5405.5	5578.4	5756.3	5844.0	5783.9	5568.4	5270.2	4914.3	4794.0	4746.4
47.5°	5661.1	5721.2	5889.2	6072.1	6207.4	6212.4	5946.8	5585.9	5210.0	5052.1	5049.6
50°	5854.1	5941.8	6107.2	6315.2	6513.2	6590.8	6325.2	5936.8	5533.3	5365.4	5347.9
52.5°	5959.3	6049.5	6214.9	6538.2	6758.7	6879.0	6753.7	6265.1	5911.7	5736.3	5708.7
55°	5831.5	5891.7	6162.3	6615.9	6956.7	7154.7	7072.0	6718.6	6287.6	6144.8	6169.8
57.5°	5287.7	5413.0	5746.3	6312.7	6951.7	7437.9	7430.4	7147.2	6721.2	6585.8	6590.8
60°	4353.0	4458.2	4869.2	5661.1	6671.0	7553.2	7818.8	7563.2	7207.3	7049.4	7044.4
62.5°	3072.4	3205.2	3681.3	4545.9	5844.0	7392.8	8264.9	8086.9	7683.5	7568.2	7610.8
65°	1719.1	1799.3	2240.4	3022.3	4453.2	6510.6	8345.1	8630.7	8167.1	7991.7	7999.2
67.5°	919.7	949.8	1155.3	1586.3	2724.0	5019.6	7535.6	8944.0	8690.9	8387.7	8340.0
70°	631.5	641.5	694.2	812.0	1288.1	3002.2	5683.7	8385.2	9084.3	8670.8	8751.0
72.5°	533.8	528.8	541.3	553.8	674.1	1343.2	3335.5	6453.0	8575.6	8420.2	8390.2
75°	463.6	461.1	466.1	453.6	468.6	591.4	1476.0	4022.2	6277.6	7006.8	7119.6
77.5°	383.4	385.9	388.4	375.9	370.9	390.9	593.9	1766.7	3089.9	3410.7	3678.8
80°	290.7	295.7	315.8	303.2	283.2	285.7	350.8	591.4	887.1	804.4	829.5
82.5°	198.0	200.5	243.1	228.0	213.0	193.0	225.5	305.7	345.8	263.1	230.6
85°	140.3	137.8	157.9	145.3	135.3	97.7	135.3	172.9	208.0	130.3	117.8
87.5°	32.6	32.6	65.2	52.6	50.1	40.1	52.6	67.7	90.2	57.6	52.6
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°	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7
2.5°	2425.8	2403.3	2403.3	2398.3	2378.2	2373.2	2355.7	2360.7	2348.1	2335.6
5°	2511.0	2481.0	2481.0	2438.4	2398.3	2393.3	2373.2	2373.2	2353.2	2358.2
7.5°	2628.8	2601.3	2556.1	2518.6	2463.4	2440.9	2403.3	2398.3	2393.3	2383.2
10°	2769.2	2734.1	2689.0	2611.3	2566.2	2523.6	2486.0	2433.3	2420.8	2423.3
12.5°	2959.6	2904.5	2806.7	2739.1	2681.4	2626.3	2571.2	2493.5	2476.0	2483.5
15°	3094.9	3024.8	2927.0	2902.0	2824.3	2756.6	2666.4	2578.7	2548.6	2541.1
17.5°	3205.2	3147.6	3089.9	3052.3	2989.7	2907.0	2781.7	2681.4	2613.8	2606.3
20°	3295.4	3220.2	3207.7	3230.3	3152.6	3097.4	2944.6	2821.8	2731.6	2694.0
22.5°	3350.6	3302.9	3338.0	3358.1	3353.1	3260.3	3102.5	2959.6	2846.8	2811.8
25°	3410.7	3355.6	3480.9	3548.5	3566.1	3413.2	3290.4	3102.5	2992.2	2969.6
27.5°	3440.8	3460.8	3606.2	3749.0	3736.5	3618.7	3453.3	3285.4	3197.7	3157.6
30°	3528.5	3561.1	3781.6	3942.0	3944.5	3829.2	3703.9	3513.4	3415.7	3398.2
32.5°	3686.4	3726.5	3962.0	4132.4	4162.5	4074.8	3949.5	3831.7	3731.5	3691.4
35°	3806.6	3909.4	4175.0	4330.4	4410.6	4358.0	4287.8	4165.0	4059.8	4024.7
37.5°	3979.6	4122.4	4378.0	4588.5	4678.7	4673.7	4621.1	4488.3	4400.6	4370.5
40°	4227.7	4370.5	4603.6	4881.7	5049.6	5042.1	5012.0	4909.3	4779.0	4763.9
42.5°	4490.8	4608.6	4911.8	5230.1	5470.6	5445.6	5365.4	5245.1	5154.9	5134.8
45°	4746.4	4929.3	5210.0	5618.5	5798.9	5861.6	5766.4	5560.9	5458.1	5445.6
47.5°	5067.2	5212.5	5563.4	5929.2	6197.4	6207.4	6044.5	5854.1	5666.1	5706.2
50°	5352.9	5545.8	5901.7	6302.6	6623.4	6508.1	6300.1	6062.1	5926.7	5874.1
52.5°	5658.6	5894.2	6307.7	6716.1	6894.1	6778.8	6440.5	6174.8	5969.3	5946.8
55°	6104.7	6227.5	6768.8	7082.0	7139.7	6896.6	6397.9	6022.0	5756.3	5691.2
57.5°	6558.3	6701.1	7174.7	7445.4	7385.2	6831.4	6122.2	5540.8	5192.5	5099.8
60°	7016.9	7192.3	7590.7	7838.8	7528.1	6382.8	5342.8	4593.5	4187.6	4104.9
62.5°	7528.1	7756.1	8112.0	8199.7	7104.6	5495.7	4240.2	3315.5	2904.5	2766.6
65°	7981.7	8214.7	8653.3	8124.5	6204.9	4099.9	2741.6	1894.6	1591.3	1481.1
67.5°	8355.1	8618.2	8833.7	7189.8	4543.4	2400.8	1428.4	997.4	884.6	844.5
70°	8650.8	9089.3	8081.9	5285.2	2596.2	1170.3	771.9	656.6	641.5	631.5
72.5°	8392.7	8335.0	6034.5	3049.8	1137.7	644.0	558.8	541.3	538.8	541.3
75°	6864.0	6122.2	3608.7	1325.7	571.4	466.1	463.6	456.1	468.6	468.6
77.5°	3330.5	2912.0	1508.6	568.9	375.9	365.9	378.4	378.4	378.4	378.4
80°	771.9	854.6	538.8	345.8	273.2	273.2	300.7	303.2	290.7	285.7
82.5°	263.1	350.8	295.7	218.0	180.4	203.0	228.0	233.1	193.0	195.5
85°	130.3	205.5	160.4	125.3	92.7	125.3	147.9	155.4	132.8	127.8
87.5°	60.1	90.2	60.1	42.6	32.6	45.1	42.6	35.1	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

(END OF REPORT)