

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: P481447

Luminaire Tested: **IFLD-S-SA6A-830-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481447
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

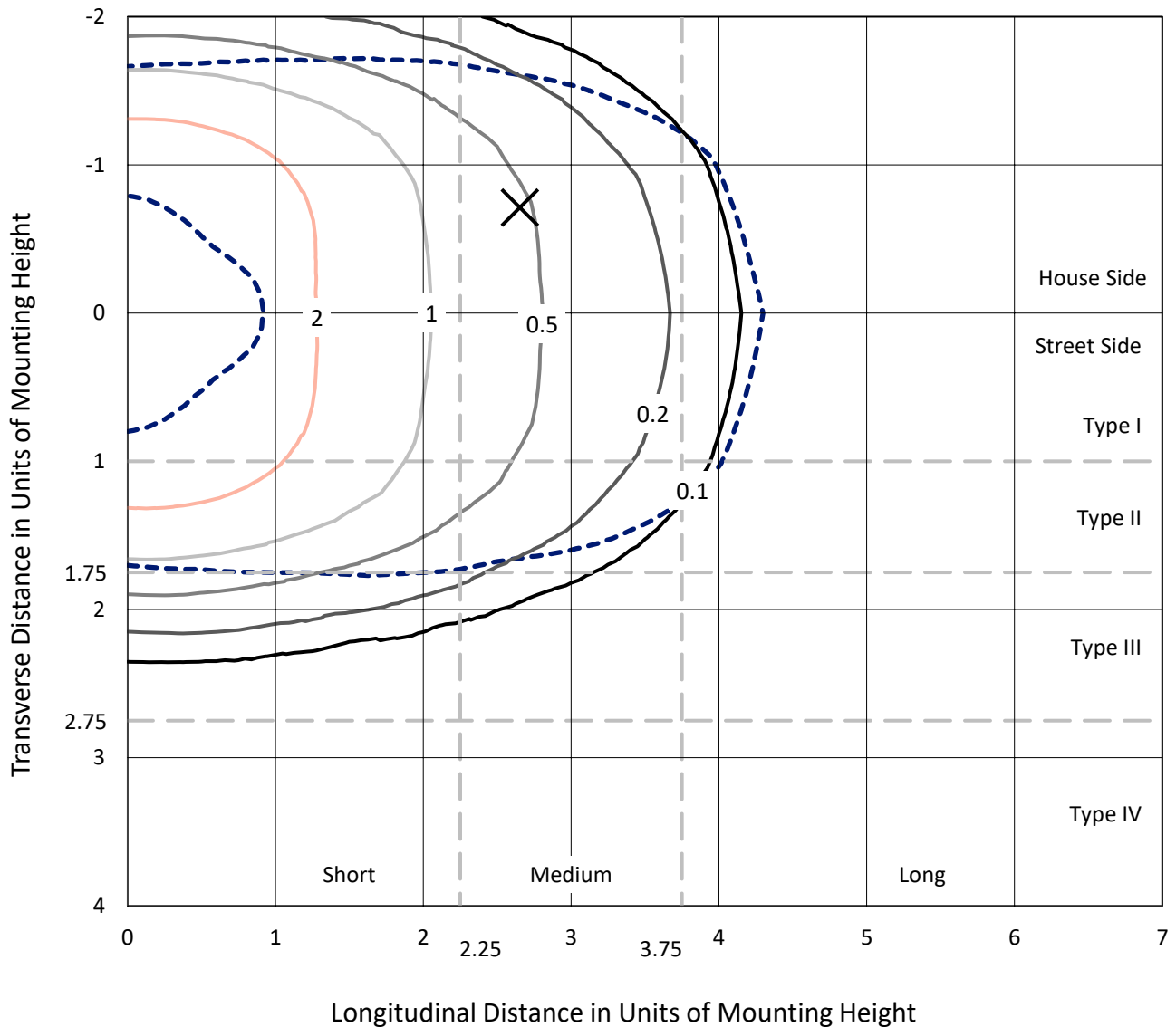
Lumens per Lamp: N/A
Luminaire Lumens: 22090.2 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

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

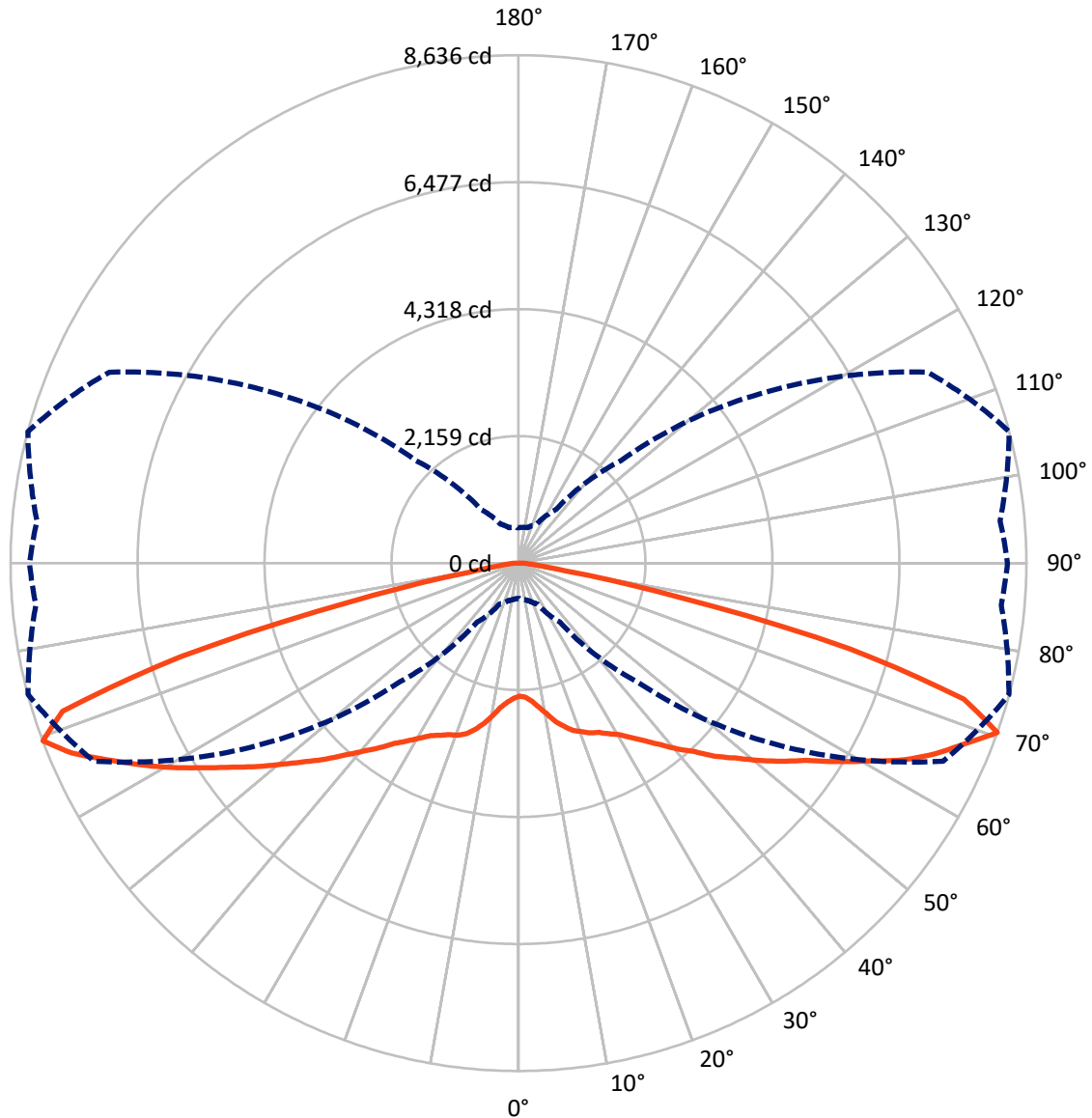
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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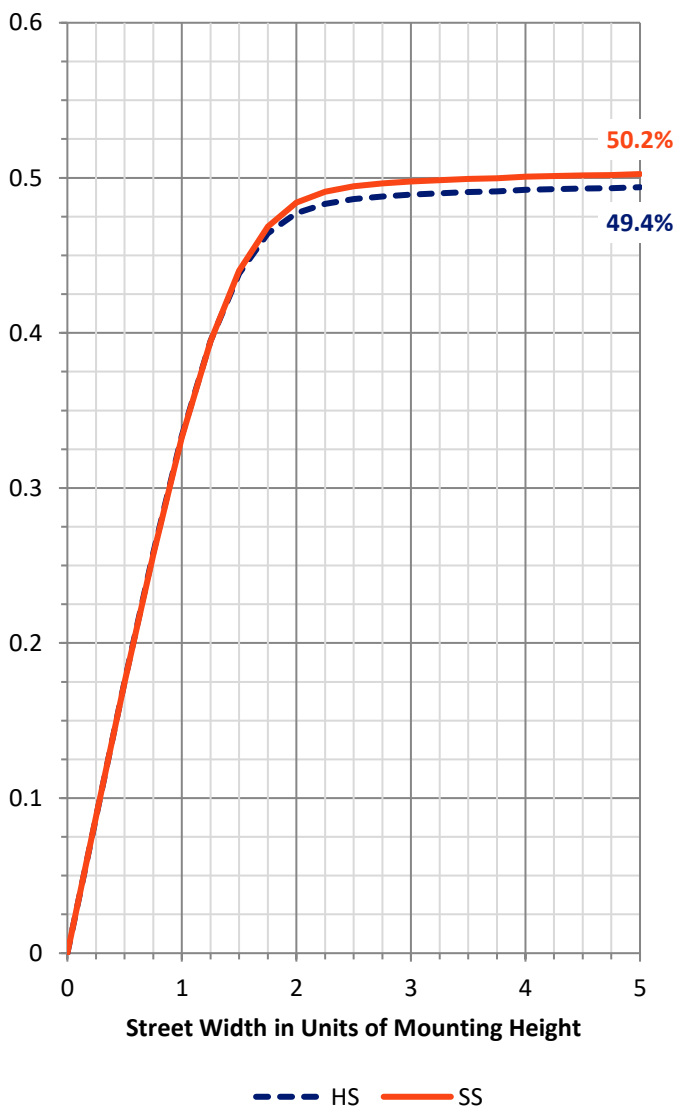
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10966.5	0.0	10966.5
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	11123.7	0.0	11123.7
	% Fixture	50.4	0.0	50.4
Total	Lumens	22090.2	0.0	22090.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.1	1.0
10°-20°	766.6	3.5
20°-30°	1484.4	6.7
30°-40°	2510.7	11.4
40°-50°	4005.4	18.1
50°-60°	5482.5	24.8
60°-70°	5167.6	23.4
70°-80°	2276.5	10.3
80°-90°	171.3	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°	22090.2	100.0
0°-180°	22090.2	100.0

Coefficient of Utilization



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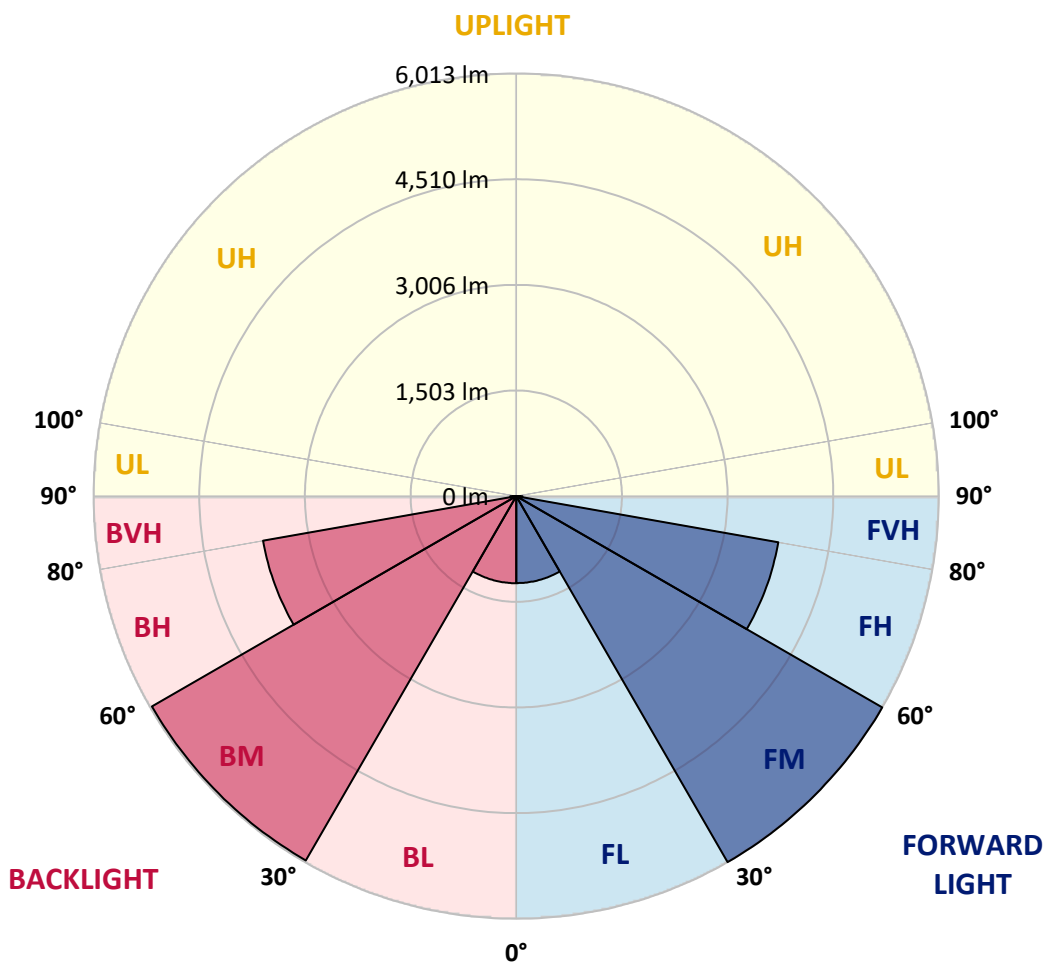
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1237.4	5.6			
FM (30°-60°)	6012.8	27.2			
FH (60°-80°)	3786.0	17.1			G2/5000
FVH (80°-90°)	87.5	0.4			G1/100
BL (0°-30°)	1238.8	5.6	B3/2500		
BM (30°-60°)	5985.9	27.1	B4/8500		
BH (60°-80°)	3658.1	16.6	B4/5000		G4/5000
BVH (80°-90°)	83.8	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°	2262.0	2262.0	2262.0	2262.0	2262.0	2262.0	2262.0	2262.0	2262.0	2262.0	2262.0
2.5°	2247.7	2247.7	2245.3	2257.3	2269.2	2273.9	2283.4	2285.8	2300.1	2288.2	2312.0
5°	2240.6	2238.2	2257.3	2285.8	2285.8	2316.8	2335.8	2362.0	2369.2	2383.4	2388.2
7.5°	2290.6	2285.8	2276.3	2307.3	2333.4	2381.1	2407.3	2452.5	2469.2	2488.2	2509.6
10°	2321.5	2321.5	2312.0	2366.8	2390.6	2454.9	2512.0	2557.3	2621.6	2643.0	2645.4
12.5°	2326.3	2333.4	2362.0	2433.4	2500.1	2583.5	2626.3	2712.0	2776.3	2816.8	2831.1
15°	2397.7	2383.4	2414.4	2512.0	2609.6	2683.5	2759.7	2821.6	2914.4	2966.8	3000.1
17.5°	2462.0	2447.7	2504.9	2621.6	2721.6	2835.8	2902.5	2969.2	3035.9	3083.5	3085.9
20°	2564.4	2576.3	2626.3	2752.5	2883.5	2983.5	3059.7	3071.6	3104.9	3174.0	3162.1
22.5°	2690.6	2681.1	2785.8	2923.9	3066.8	3150.2	3193.0	3162.1	3145.4	3219.2	3235.9
25°	2816.8	2845.4	2940.6	3069.2	3240.6	3352.5	3364.4	3278.7	3216.8	3243.0	3235.9
27.5°	3009.7	3014.4	3114.4	3266.8	3440.6	3538.3	3531.1	3409.7	3290.6	3293.0	3297.8
30°	3257.3	3233.5	3343.0	3481.1	3652.6	3740.7	3752.6	3578.7	3419.2	3371.6	3383.5
32.5°	3495.4	3524.0	3619.2	3776.4	3902.6	3952.6	3926.4	3771.6	3564.5	3500.2	3507.3
35°	3800.2	3795.4	3926.4	4059.7	4155.0	4164.5	4143.1	3916.9	3721.6	3638.3	3604.9
37.5°	4126.4	4169.2	4255.0	4364.5	4464.5	4469.3	4352.6	4171.6	3931.1	3793.0	3833.5
40°	4490.7	4538.3	4600.2	4759.8	4833.6	4757.4	4638.3	4393.1	4143.1	4021.6	4040.7
42.5°	4812.1	4833.6	4959.8	5147.9	5183.6	5150.2	4974.0	4676.4	4385.9	4252.6	4262.1
45°	5107.4	5136.0	5300.3	5469.3	5552.6	5495.5	5290.7	5007.4	4669.3	4555.0	4509.7
47.5°	5378.8	5436.0	5595.5	5769.3	5897.9	5902.7	5650.3	5307.4	4950.2	4800.2	4797.8
50°	5562.2	5645.5	5802.7	6000.3	6188.4	6262.2	6009.8	5640.7	5257.4	5097.9	5081.2
52.5°	5662.2	5747.9	5905.0	6212.2	6421.7	6536.0	6417.0	5952.7	5616.9	5450.3	5424.1
55°	5540.7	5597.9	5855.0	6286.0	6609.8	6797.9	6719.4	6383.6	5974.1	5838.4	5862.2
57.5°	5024.0	5143.1	5459.8	5997.9	6605.1	7067.0	7059.9	6790.8	6386.0	6257.4	6262.2
60°	4135.9	4235.9	4626.4	5378.8	6338.4	7176.5	7428.9	7186.1	6847.9	6697.9	6693.2
62.5°	2919.2	3045.4	3497.8	4319.3	5552.6	7024.1	7852.8	7683.7	7300.3	7190.8	7231.3
65°	1633.4	1709.6	2128.7	2871.6	4231.2	6186.0	7928.9	8200.4	7759.9	7593.2	7600.4
67.5°	873.9	902.4	1097.7	1507.2	2588.2	4769.3	7159.9	8498.0	8257.5	7969.4	7924.2
70°	600.0	609.6	659.6	771.5	1223.9	2852.5	5400.3	7967.0	8631.4	8238.5	8314.7
72.5°	507.2	502.4	514.3	526.2	640.5	1276.3	3169.2	6131.2	8148.0	8000.4	7971.8
75°	440.5	438.1	442.9	431.0	445.3	561.9	1402.4	3821.6	5964.6	6657.5	6764.6
77.5°	364.3	366.7	369.1	357.2	352.4	371.4	564.3	1678.7	2935.9	3240.6	3495.4
80°	276.2	281.0	300.0	288.1	269.1	271.4	333.3	561.9	842.9	764.3	788.1
82.5°	188.1	190.5	231.0	216.7	202.4	183.3	214.3	290.5	328.6	250.0	219.1
85°	133.3	131.0	150.0	138.1	128.6	92.9	128.6	164.3	197.6	123.8	111.9
87.5°	31.0	31.0	61.9	50.0	47.6	38.1	50.0	64.3	85.7	54.8	50.0
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°	2262.0	2262.0	2262.0	2262.0	2262.0	2262.0	2262.0	2262.0	2262.0	2262.0
2.5°	2304.9	2283.4	2283.4	2278.7	2259.6	2254.9	2238.2	2243.0	2231.1	2219.2
5°	2385.8	2357.3	2357.3	2316.8	2278.7	2273.9	2254.9	2254.9	2235.8	2240.6
7.5°	2497.7	2471.5	2428.7	2393.0	2340.6	2319.2	2283.4	2278.7	2273.9	2264.4
10°	2631.1	2597.7	2554.9	2481.1	2438.2	2397.7	2362.0	2312.0	2300.1	2302.5
12.5°	2812.0	2759.7	2666.8	2602.5	2547.7	2495.4	2443.0	2369.2	2352.5	2359.6
15°	2940.6	2873.9	2781.1	2757.3	2683.5	2619.2	2533.5	2450.1	2421.5	2414.4
17.5°	3045.4	2990.6	2935.9	2900.1	2840.6	2762.0	2643.0	2547.7	2483.5	2476.3
20°	3131.1	3059.7	3047.8	3069.2	2995.4	2943.0	2797.8	2681.1	2595.4	2559.6
22.5°	3183.5	3138.2	3171.6	3190.6	3185.9	3097.8	2947.8	2812.0	2704.9	2671.6
25°	3240.6	3188.2	3307.3	3371.6	3388.3	3243.0	3126.3	2947.8	2843.0	2821.6
27.5°	3269.2	3288.3	3426.4	3562.1	3550.2	3438.3	3281.1	3121.6	3038.2	3000.1
30°	3352.5	3383.5	3593.0	3745.4	3747.8	3638.3	3519.2	3338.3	3245.4	3228.7
32.5°	3502.5	3540.6	3764.5	3926.4	3955.0	3871.6	3752.6	3640.6	3545.4	3507.3
35°	3616.8	3714.5	3966.9	4114.5	4190.7	4140.7	4074.0	3957.3	3857.3	3824.0
37.5°	3781.1	3916.9	4159.7	4359.7	4445.4	4440.7	4390.7	4264.5	4181.2	4152.6
40°	4016.9	4152.6	4374.0	4638.3	4797.8	4790.7	4762.1	4664.5	4540.7	4526.4
42.5°	4266.9	4378.8	4666.9	4969.3	5197.9	5174.1	5097.9	4983.6	4897.9	4878.8
45°	4509.7	4683.6	4950.2	5338.3	5509.8	5569.3	5478.8	5283.6	5186.0	5174.1
47.5°	4814.5	4952.6	5286.0	5633.6	5888.4	5897.9	5743.1	5562.2	5383.6	5421.7
50°	5086.0	5269.3	5607.4	5988.4	6293.2	6183.6	5986.0	5759.8	5631.2	5581.2
52.5°	5376.4	5600.3	5993.1	6381.3	6550.3	6440.8	6119.3	5866.9	5671.7	5650.3
55°	5800.3	5916.9	6431.3	6728.9	6783.7	6552.7	6078.9	5721.7	5469.3	5407.4
57.5°	6231.2	6367.0	6817.0	7074.1	7017.0	6490.8	5816.9	5264.5	4933.6	4845.5
60°	6667.0	6833.7	7212.2	7448.0	7152.7	6064.6	5076.4	4364.5	3978.8	3900.2
62.5°	7152.7	7369.4	7707.5	7790.8	6750.3	5221.7	4028.8	3150.2	2759.7	2628.7
65°	7583.7	7805.1	8221.8	7719.4	5895.5	3895.4	2604.9	1800.1	1512.0	1407.2
67.5°	7938.5	8188.5	8393.3	6831.3	4316.9	2281.1	1357.2	947.7	840.5	802.4
70°	8219.4	8636.1	7678.9	5021.7	2466.8	1112.0	733.4	623.8	609.6	600.0
72.5°	7974.2	7919.4	5733.6	2897.8	1081.0	611.9	531.0	514.3	511.9	514.3
75°	6521.7	5816.9	3428.7	1259.6	542.9	442.9	440.5	433.4	445.3	445.3
77.5°	3164.4	2766.8	1433.4	540.5	357.2	347.6	359.5	359.5	359.5	359.5
80°	733.4	811.9	511.9	328.6	259.5	259.5	285.7	288.1	276.2	271.4
82.5°	250.0	333.3	281.0	207.2	171.4	192.9	216.7	221.4	183.3	185.7
85°	123.8	195.2	152.4	119.1	88.1	119.1	140.5	147.6	126.2	121.4
87.5°	57.1	85.7	57.1	40.5	31.0	42.9	40.5	33.3	19.0	19.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)