

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: P478795

Luminaire Tested: **IFLD-S-SA6A-722-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478795
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-722-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

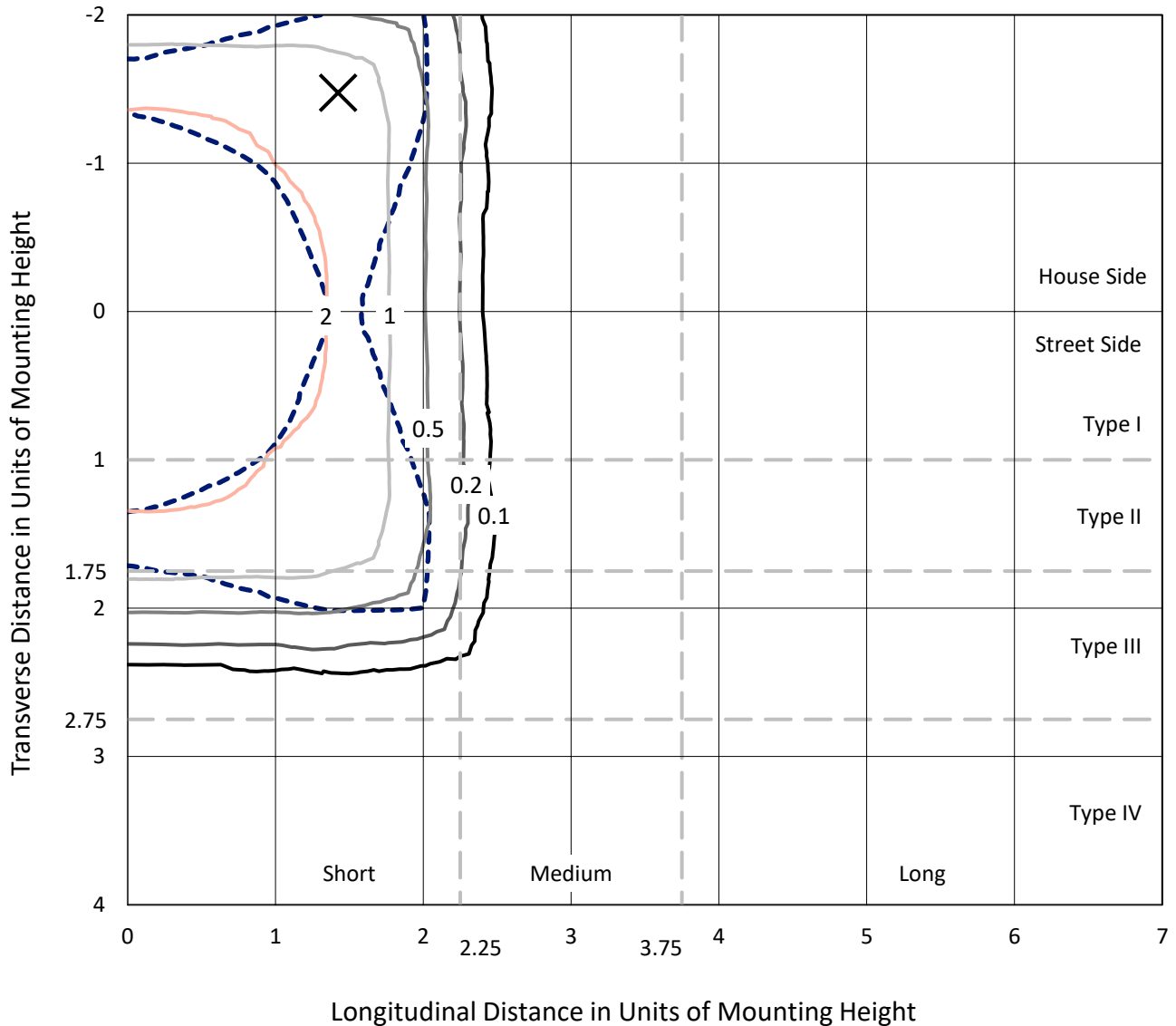
Lumens per Lamp: N/A
Luminaire Lumens: 19828.6 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

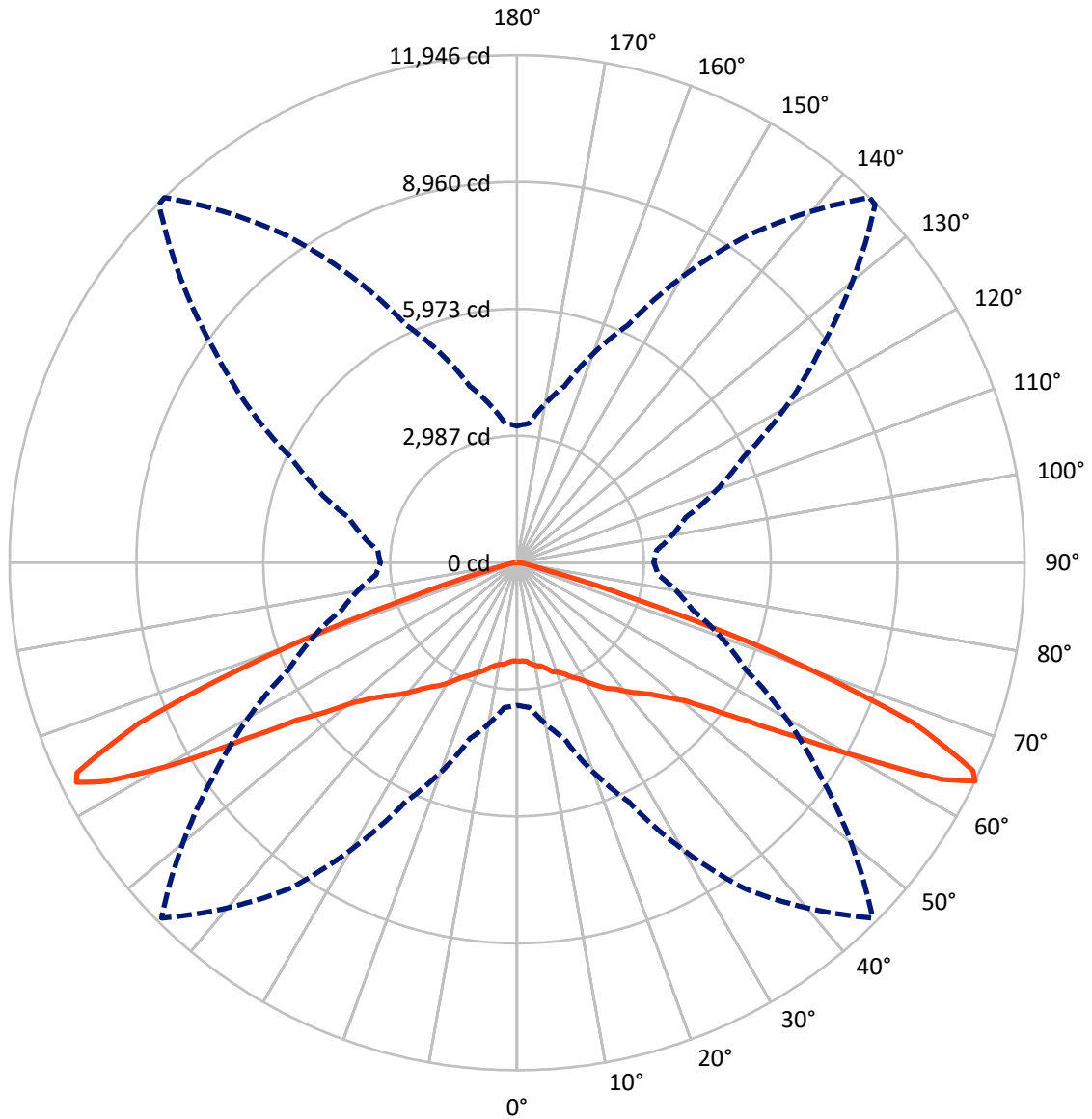
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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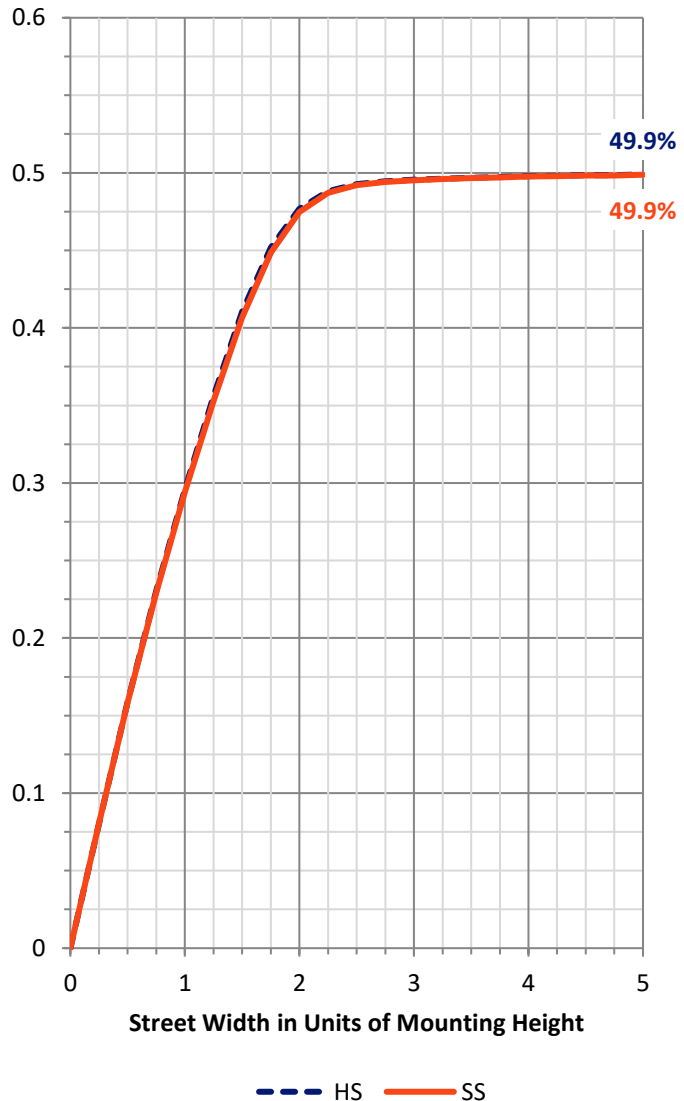
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9923.7	0.0	9923.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9904.8	0.0	9904.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	19828.6	0.0	19828.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.1	1.2
10°-20°	735.2	3.7
20°-30°	1381.7	7.0
30°-40°	2278.7	11.5
40°-50°	3563.7	18.0
50°-60°	5758.1	29.0
60°-70°	5184.8	26.1
70°-80°	614.2	3.1
80°-90°	84.1	0.4
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°	19828.6	100.0
0°-180°	19828.6	100.0

Coefficient of Utilization



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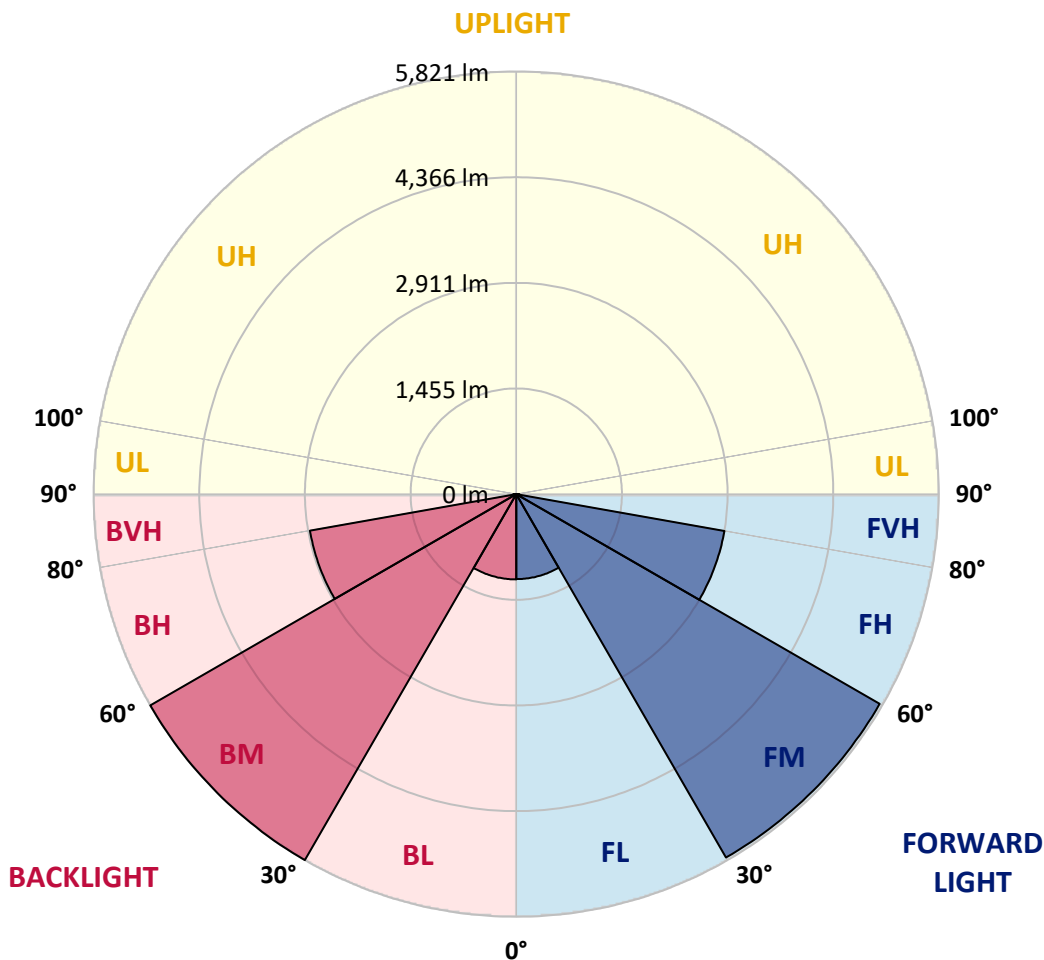
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1170.2	5.9			
FM (30°-60°)	5779.4	29.1			
FH (60°-80°)	2912.0	14.7			G2/5000
FVH (80°-90°)	43.1	0.2			G1/100
BL (0°-30°)	1174.8	5.9	B3/2500		
BM (30°-60°)	5821.1	29.4	B4/8500		
BH (60°-80°)	2886.9	14.6	B4/5000		G2/5000
BVH (80°-90°)	40.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2321.5	2321.5	2321.5	2321.5	2321.5	2321.5	2321.5	2321.5	2321.5	2321.5	2321.5
2.5°	2294.2	2298.8	2339.7	2323.8	2337.4	2312.4	2330.6	2369.3	2323.8	2357.9	2369.3
5°	2319.2	2326.1	2326.1	2342.0	2351.1	2346.5	2357.9	2342.0	2385.2	2367.0	2394.3
7.5°	2410.2	2398.8	2380.6	2394.3	2396.6	2407.9	2419.3	2439.8	2432.9	2417.0	2444.3
10°	2426.1	2417.0	2444.3	2446.6	2435.2	2426.1	2437.5	2437.5	2457.9	2462.5	2462.5
12.5°	2453.4	2462.5	2460.2	2478.4	2480.7	2473.9	2492.1	2526.2	2517.1	2523.9	2508.0
15°	2558.0	2546.6	2544.3	2562.5	2592.1	2548.9	2580.7	2578.5	2569.4	2583.0	2546.6
17.5°	2648.9	2612.6	2628.5	2658.0	2646.7	2655.8	2696.7	2660.3	2669.4	2653.5	2642.1
20°	2728.5	2699.0	2701.2	2712.6	2712.6	2739.9	2755.8	2742.2	2733.1	2730.8	2735.3
22.5°	2817.2	2783.1	2785.4	2833.1	2849.0	2839.9	2828.6	2851.3	2855.9	2837.7	2858.1
25°	2883.1	2919.5	2930.9	2953.6	2919.5	2944.5	2935.4	2978.6	3005.9	2969.5	2994.6
27.5°	3055.9	3040.0	3069.6	3067.3	3094.6	3069.6	3085.5	3099.1	3110.5	3112.8	3101.4
30°	3210.6	3217.4	3187.8	3267.4	3203.7	3244.7	3272.0	3278.8	3292.4	3292.4	3258.3
32.5°	3374.3	3360.6	3408.4	3390.2	3378.8	3410.7	3381.1	3474.3	3419.7	3451.6	3412.9
35°	3558.4	3558.4	3576.6	3626.7	3558.4	3538.0	3592.6	3631.2	3631.2	3574.4	3588.0
37.5°	3765.4	3747.2	3769.9	3833.6	3781.3	3713.1	3813.1	3829.0	3817.7	3801.7	3774.5
40°	3910.9	3906.3	3951.8	4035.9	3960.9	3947.3	3965.5	4008.7	4022.3	4038.2	4001.8
42.5°	4156.4	4176.9	4308.8	4288.3	4226.9	4179.2	4174.6	4336.1	4297.4	4256.5	4236.0
45°	4520.3	4502.1	4570.3	4572.5	4493.0	4388.4	4411.1	4558.9	4624.8	4533.9	4568.0
47.5°	4809.0	4818.1	4865.9	4963.6	4779.5	4670.3	4754.5	4993.2	4972.7	4938.6	4970.5
50°	5195.6	5236.5	5386.6	5352.5	5188.7	5054.6	5238.8	5463.9	5488.9	5363.8	5341.1
52.5°	5729.9	5793.6	5875.4	5902.7	5745.8	5698.1	5709.4	5989.1	5927.7	5807.2	5729.9
55°	6198.3	6227.9	6377.9	6603.0	6591.7	6362.0	6493.9	6598.5	6348.4	6100.5	6121.0
57.5°	6398.4	6412.0	6830.4	7280.6	7548.9	7601.2	7451.1	7098.7	6503.0	6025.5	5995.9
60°	5900.4	6030.0	6534.8	7551.2	8776.7	9381.6	8383.4	7155.6	6141.4	5561.6	5518.4
62.5°	4715.8	4722.6	5473.0	7014.6	9540.7	11125.6	8740.4	6621.2	5177.4	4520.3	4347.4
64°	3358.4	3422.0	4283.8	6209.7	9381.6	11835.0	8697.2	5923.2	4267.9	3335.6	3215.1
65°	2410.2	2498.9	3331.1	5391.1	9008.7	11750.8	8567.6	5322.9	3451.6	2546.6	2423.8
67.5°	886.8	923.2	1307.4	2696.7	6468.9	10013.7	6789.5	2926.3	1516.6	1080.0	970.9
70°	411.6	413.8	484.3	891.3	2828.6	6696.2	3240.1	1098.2	570.7	452.5	420.6
72.5°	302.4	309.2	338.8	411.6	832.2	2835.4	1064.1	450.2	334.2	295.6	288.8
75°	245.6	250.1	259.2	297.9	384.3	759.4	432.0	311.5	266.0	238.7	229.7
77.5°	188.7	188.7	209.2	227.4	254.7	354.7	286.5	247.8	216.0	188.7	181.9
80°	136.4	138.7	163.7	177.4	172.8	234.2	206.9	204.6	177.4	147.8	136.4
82.5°	79.6	86.4	118.2	127.3	122.8	138.7	150.1	159.2	138.7	102.3	93.2
85°	45.5	47.7	68.2	70.5	70.5	65.9	86.4	95.5	93.2	63.7	56.8
87.5°	13.6	13.6	18.2	18.2	20.5	22.7	34.1	40.9	45.5	31.8	29.6
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°	136°	145°	155°	165°	175°	180°
0°	2321.5	2321.5	2321.5	2321.5	2321.5	2321.5	2321.5	2321.5	2321.5	2321.5	2321.5
2.5°	2357.9	2323.8	2326.1	2335.2	2305.6	2317.0	2351.1	2326.1	2319.2	2305.6	2298.8
5°	2346.5	2382.9	2369.3	2373.8	2367.0	2335.2	2330.6	2351.1	2362.4	2342.0	2382.9
7.5°	2426.1	2410.2	2392.0	2398.8	2382.9	2410.2	2428.4	2387.5	2407.9	2396.6	2373.8
10°	2471.6	2442.0	2455.7	2451.1	2439.8	2467.0	2448.8	2444.3	2426.1	2401.1	2437.5
12.5°	2487.5	2521.6	2544.3	2505.7	2512.5	2498.9	2487.5	2487.5	2467.0	2460.2	2467.0
15°	2558.0	2587.5	2578.5	2608.0	2569.4	2583.0	2596.6	2562.5	2580.7	2530.7	2569.4
17.5°	2687.6	2662.6	2694.4	2655.8	2669.4	2696.7	2653.5	2653.5	2667.1	2639.8	2605.7
20°	2769.5	2758.1	2746.7	2749.0	2726.2	2751.3	2737.6	2730.8	2710.3	2719.4	2737.6
22.5°	2846.8	2830.8	2835.4	2842.2	2858.1	2846.8	2839.9	2846.8	2796.7	2842.2	2778.5
25°	2942.3	2985.5	2971.8	3001.4	2955.9	2985.5	2983.2	2940.0	2967.3	2949.1	2935.4
27.5°	3101.4	3078.7	3099.1	3062.8	3094.6	3096.9	3069.6	3142.3	3110.5	3106.0	3096.9
30°	3306.1	3290.1	3276.5	3256.0	3281.0	3260.6	3283.3	3290.1	3260.6	3237.8	3194.6
32.5°	3422.0	3465.2	3481.1	3431.1	3433.4	3444.8	3424.3	3403.8	3422.0	3428.8	3422.0
35°	3585.7	3626.7	3635.8	3597.1	3576.6	3633.5	3592.6	3660.8	3601.6	3603.9	3542.5
37.5°	3776.7	3788.1	3865.4	3822.2	3804.0	3776.7	3851.8	3842.7	3856.3	3747.2	3801.7
40°	3992.7	4033.7	4076.9	3967.7	3965.5	3990.5	3985.9	4038.2	4013.2	3997.3	3958.6
42.5°	4229.2	4315.6	4322.4	4249.7	4204.2	4199.7	4222.4	4338.4	4340.6	4236.0	4190.6
45°	4543.0	4638.5	4613.5	4472.5	4422.5	4415.7	4527.1	4577.1	4620.3	4579.4	4540.7
47.5°	4934.1	4997.7	4979.6	4849.9	4688.5	4734.0	4843.1	5000.0	4954.5	4900.0	4854.5
50°	5352.5	5427.5	5388.8	5259.2	5104.6	5104.6	5238.8	5438.9	5425.2	5318.3	5277.4
52.5°	5816.3	5925.4	6014.1	5829.9	5700.3	5720.8	5932.3	6005.0	5970.9	5895.9	5861.8
55°	6161.9	6371.1	6553.0	6562.1	6568.9	6566.6	6621.2	6694.0	6450.7	6330.2	6207.4
57.5°	6077.8	6473.4	7096.4	7519.4	7644.4	7710.4	7692.2	7355.6	6780.4	6384.7	6425.7
60°	5477.5	6123.3	7128.3	8485.7	9395.2	9304.3	8972.3	7642.1	6598.5	5930.0	5845.9
62.5°	4370.2	5147.8	6593.9	8758.6	11264.3	11237.0	9499.8	6980.5	5498.0	4652.1	4599.8
64°	3292.4	4111.0	5882.2	8688.1	11919.1	11946.4	9365.7	6166.5	4302.0	3292.4	3212.8
65°	2519.3	3278.8	5184.2	8542.5	11778.1	11794.0	8992.8	5325.2	3269.7	2337.4	2251.0
67.5°	1002.7	1396.1	2812.7	6478.0	10113.7	10070.5	6416.6	2576.2	1250.6	814.0	798.1
70°	427.5	532.1	986.8	3069.6	6771.3	6646.2	2762.6	836.7	463.8	388.8	386.5
72.5°	293.3	325.1	422.9	948.2	2814.9	2749.0	786.7	388.8	316.1	291.0	291.0
75°	236.5	259.2	307.0	397.9	745.8	718.5	370.6	286.5	252.4	234.2	231.9
77.5°	184.2	206.9	241.0	275.1	341.1	338.8	247.8	216.0	195.5	181.9	177.4
80°	145.5	168.3	191.0	195.5	222.8	218.3	168.3	170.5	159.2	131.9	129.6
82.5°	100.0	136.4	152.3	138.7	131.9	131.9	120.5	120.5	111.4	81.9	75.0
85°	61.4	91.0	95.5	81.9	61.4	61.4	65.9	63.7	59.1	43.2	40.9
87.5°	31.8	43.2	38.7	31.8	20.5	20.5	18.2	13.6	13.6	11.4	11.4
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)