

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: P479075

Luminaire Tested: **IFLD-M-SA4C-827-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479075
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-827-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

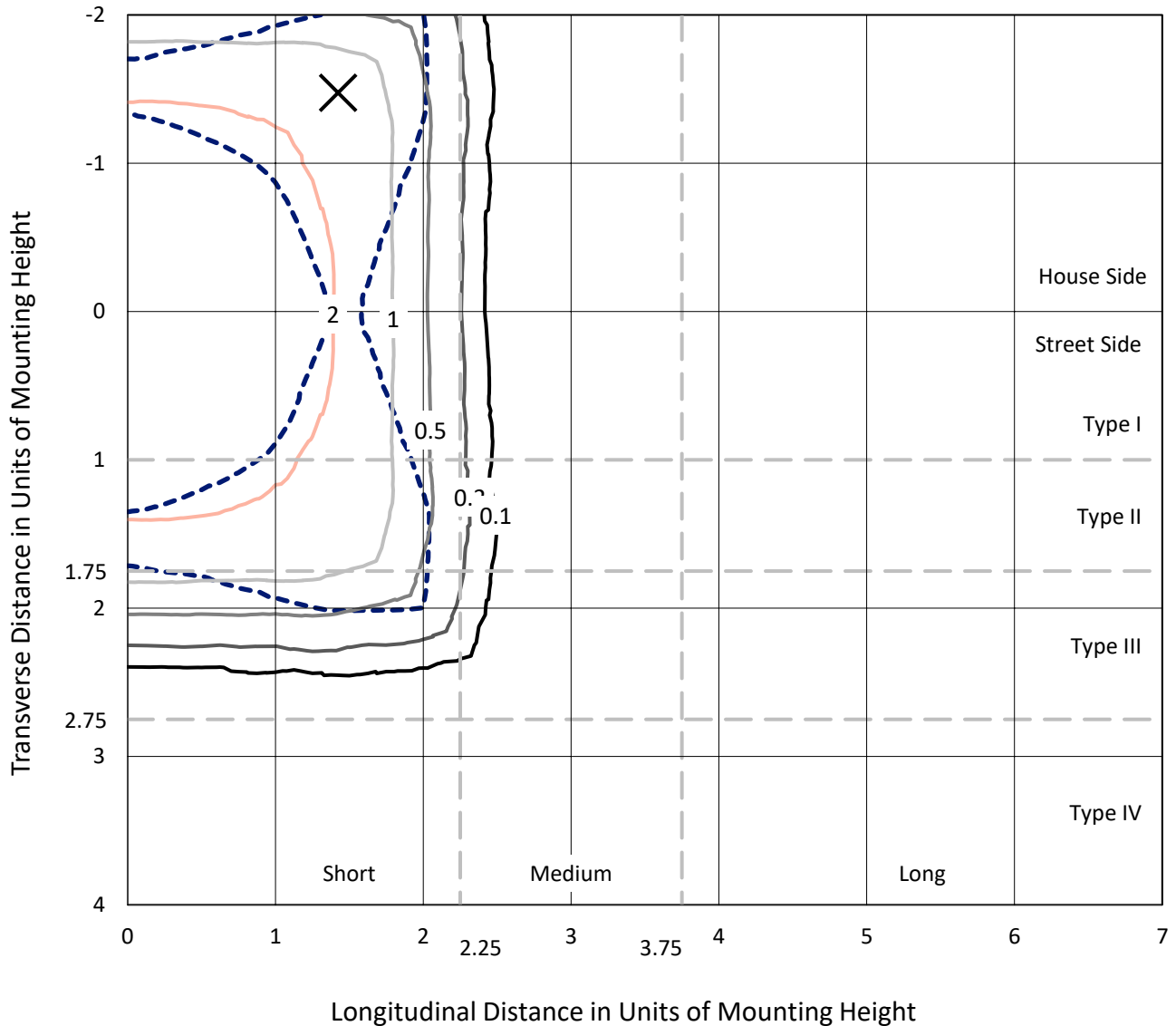
Lumens per Lamp: N/A
Luminaire Lumens: 20845.2 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 218.1
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

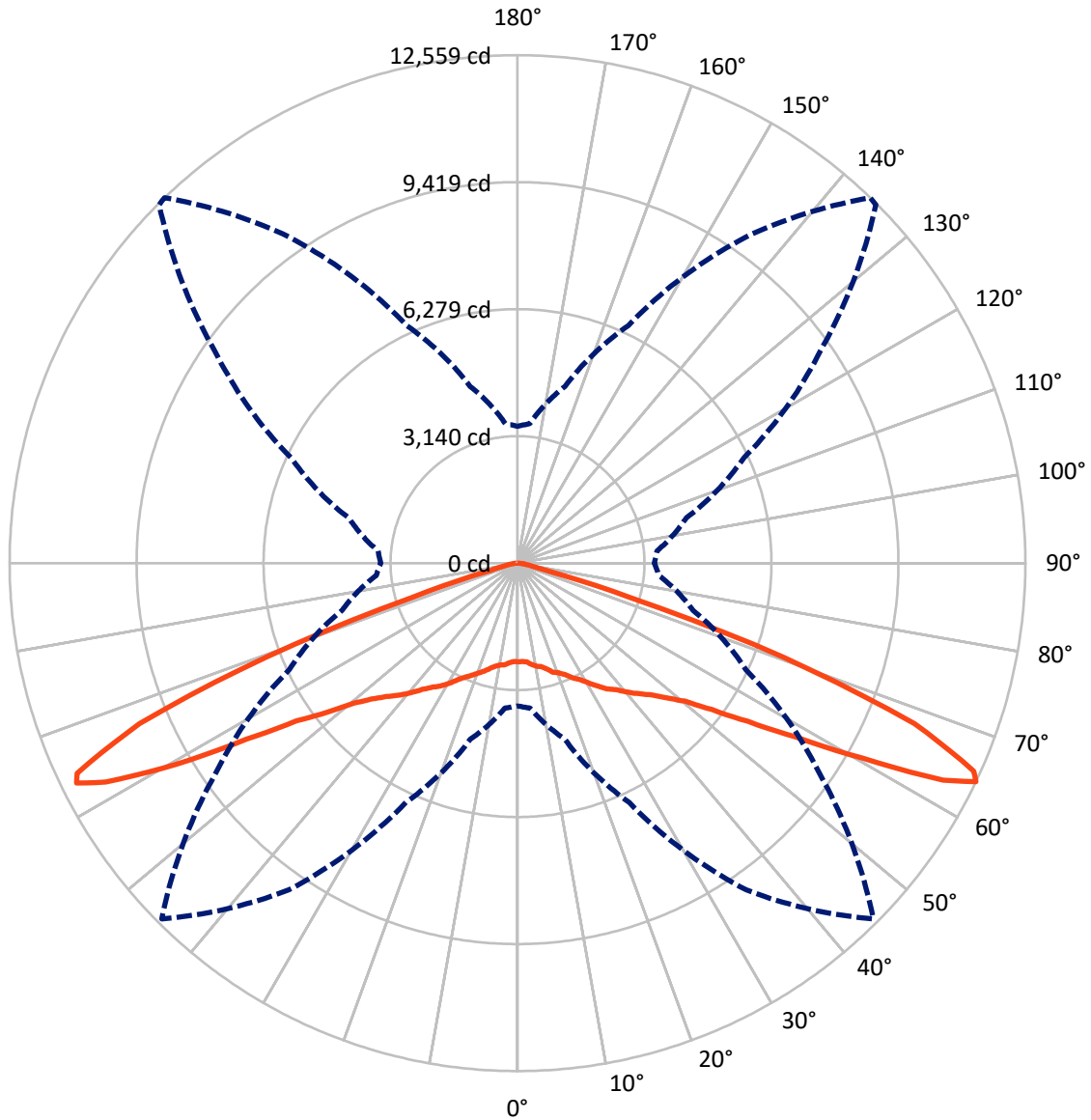
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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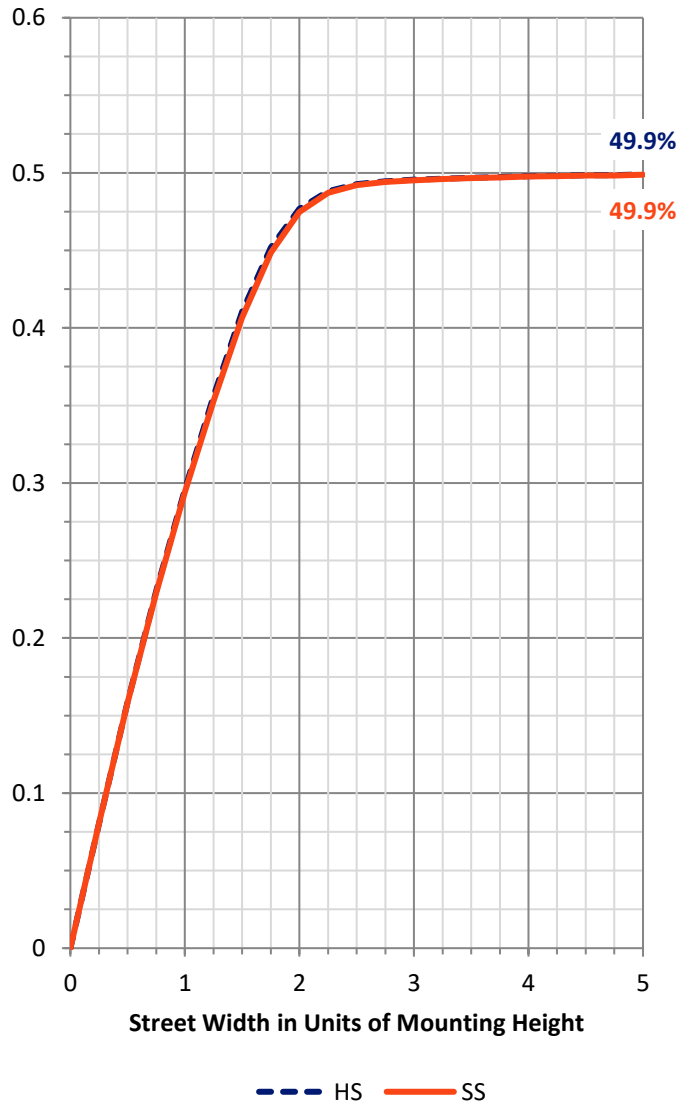
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10432.6	0.0	10432.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10412.7	0.0	10412.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	20845.2	0.0	20845.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.8	1.2
10°-20°	772.9	3.7
20°-30°	1452.6	7.0
30°-40°	2395.5	11.5
40°-50°	3746.4	18.0
50°-60°	6053.3	29.0
60°-70°	5450.6	26.1
70°-80°	645.7	3.1
80°-90°	88.4	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°	20845.2	100.0
0°-180°	20845.2	100.0

Coefficient of Utilization



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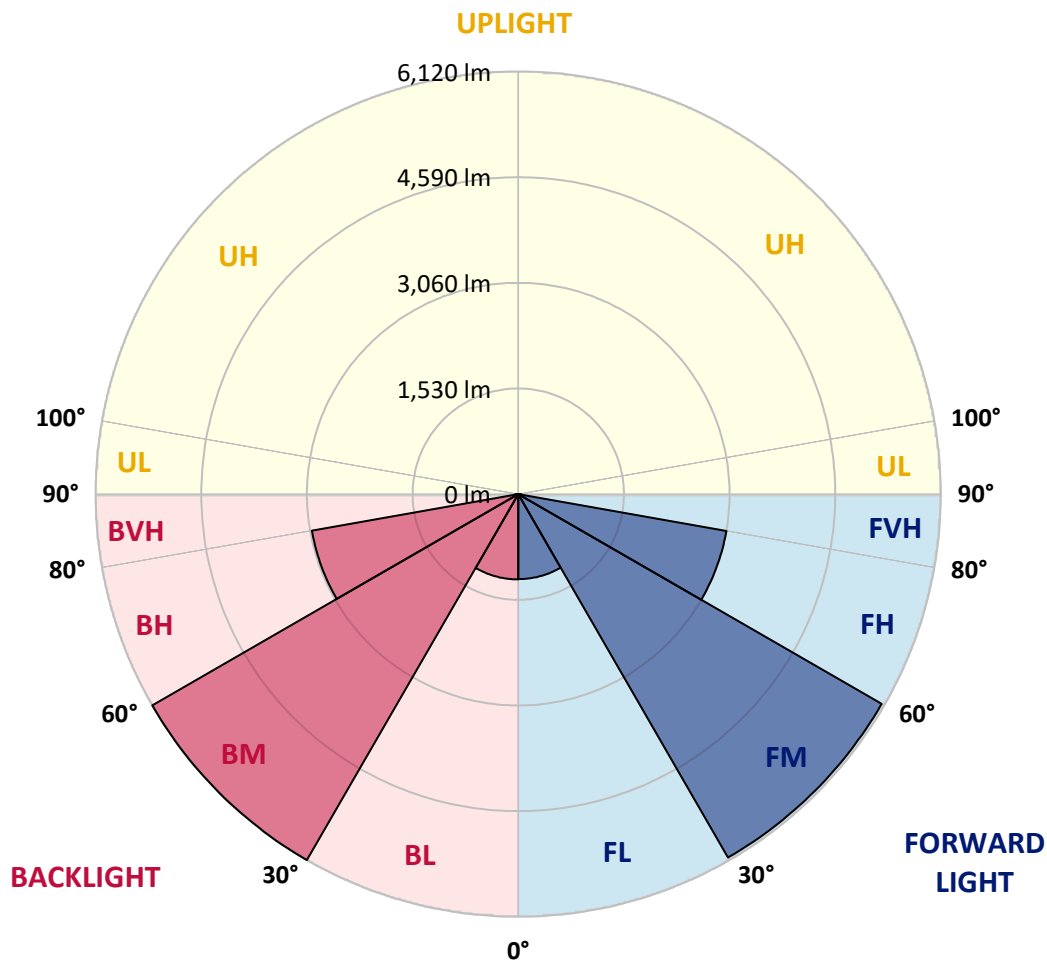
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1230.3	5.9			
FM (30°-60°)	6075.7	29.1			
FH (60°-80°)	3061.4	14.7			G2/5000
FVH (80°-90°)	45.3	0.2			G1/100
BL (0°-30°)	1235.0	5.9	B3/2500		
BM (30°-60°)	6119.6	29.4	B4/8500		
BH (60°-80°)	3034.9	14.6	B4/5000		G2/5000
BVH (80°-90°)	43.0	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°	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5
2.5°	2411.9	2416.6	2459.7	2442.9	2457.3	2431.0	2450.1	2490.7	2442.9	2478.8	2490.7
5°	2438.2	2445.3	2445.3	2462.1	2471.6	2466.8	2478.8	2462.1	2507.5	2488.4	2517.0
7.5°	2533.8	2521.8	2502.7	2517.0	2519.4	2531.4	2543.3	2564.8	2557.7	2540.9	2569.6
10°	2550.5	2540.9	2569.6	2572.0	2560.1	2550.5	2562.5	2562.5	2584.0	2588.7	2588.7
12.5°	2579.2	2588.7	2586.4	2605.5	2607.9	2600.7	2619.8	2655.7	2646.1	2653.3	2636.6
15°	2689.1	2677.2	2674.8	2693.9	2725.0	2679.6	2713.0	2710.7	2701.1	2715.4	2677.2
17.5°	2784.8	2746.5	2763.2	2794.3	2782.4	2791.9	2835.0	2796.7	2806.3	2789.5	2777.6
20°	2868.4	2837.3	2839.7	2851.7	2851.7	2880.4	2897.1	2882.8	2873.2	2870.8	2875.6
22.5°	2961.6	2925.8	2928.2	2978.4	2995.1	2985.5	2973.6	2997.5	3002.3	2983.2	3004.7
25°	3031.0	3069.2	3081.2	3105.1	3069.2	3095.5	3085.9	3131.4	3160.0	3121.8	3148.1
27.5°	3212.6	3195.9	3227.0	3224.6	3253.3	3227.0	3243.7	3258.0	3270.0	3272.4	3260.4
30°	3375.2	3382.3	3351.3	3434.9	3368.0	3411.0	3439.7	3446.9	3461.2	3461.2	3425.4
32.5°	3547.3	3532.9	3583.1	3564.0	3552.1	3585.5	3554.5	3652.5	3595.1	3628.6	3587.9
35°	3740.9	3740.9	3760.0	3812.6	3740.9	3719.4	3776.8	3817.4	3817.4	3757.6	3772.0
37.5°	3958.4	3939.3	3963.2	4030.1	3975.2	3903.4	4008.6	4025.4	4013.4	3996.7	3968.0
40°	4111.4	4106.6	4154.4	4242.9	4164.0	4149.6	4168.8	4214.2	4228.5	4245.3	4207.0
42.5°	4369.6	4391.1	4529.7	4508.2	4443.7	4393.5	4388.7	4558.4	4517.8	4474.7	4453.2
45°	4752.0	4732.9	4804.6	4807.0	4723.3	4613.4	4637.3	4792.7	4862.0	4766.4	4802.2
47.5°	5055.6	5065.2	5115.4	5218.1	5024.5	4909.8	4998.2	5249.2	5227.7	5191.8	5225.3
50°	5462.0	5505.0	5662.7	5626.9	5454.8	5313.7	5507.4	5744.0	5770.3	5638.8	5614.9
52.5°	6023.7	6090.6	6176.7	6205.4	6040.4	5990.2	6002.2	6296.2	6231.6	6105.0	6023.7
55°	6516.1	6547.2	6704.9	6941.6	6929.6	6688.2	6826.8	6936.8	6673.9	6413.3	6434.8
57.5°	6726.4	6740.8	7180.6	7653.9	7936.0	7990.9	7833.2	7462.7	6836.4	6334.4	6303.4
60°	6203.0	6339.2	6869.9	7938.4	9226.8	9862.6	8813.2	7522.4	6456.3	5846.8	5801.4
62.5°	4957.6	4964.8	5753.6	7374.2	10029.9	11696.0	9188.5	6960.7	5442.8	4752.0	4570.4
64°	3530.5	3597.5	4503.4	6528.0	9862.6	12441.8	9143.1	6226.9	4486.7	3506.6	3380.0
65°	2533.8	2627.0	3501.9	5667.5	9470.6	12353.3	9006.8	5595.8	3628.6	2677.2	2548.1
67.5°	932.2	970.5	1374.5	2835.0	6800.5	10527.1	7137.6	3076.4	1594.4	1135.4	1020.7
70°	432.7	435.0	509.1	937.0	2973.6	7039.6	3406.2	1154.5	600.0	475.7	442.2
72.5°	317.9	325.1	356.2	432.7	874.9	2980.8	1118.7	473.3	351.4	310.7	303.6
75°	258.2	262.9	272.5	313.1	404.0	798.4	454.2	327.5	279.7	251.0	241.4
77.5°	198.4	198.4	219.9	239.0	267.7	372.9	301.2	260.5	227.1	198.4	191.2
80°	143.4	145.8	172.1	186.4	181.7	246.2	217.5	215.1	186.4	155.4	143.4
82.5°	83.7	90.8	124.3	133.9	129.1	145.8	157.8	167.3	145.8	107.6	98.0
85°	47.8	50.2	71.7	74.1	74.1	69.3	90.8	100.4	98.0	66.9	59.8
87.5°	14.3	14.3	19.1	19.1	21.5	23.9	35.9	43.0	47.8	33.5	31.1
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5
2.5°	2478.8	2442.9	2445.3	2454.9	2423.8	2435.8	2471.6	2445.3	2438.2	2423.8	2416.6
5°	2466.8	2505.1	2490.7	2495.5	2488.4	2454.9	2450.1	2471.6	2483.6	2462.1	2505.1
7.5°	2550.5	2533.8	2514.6	2521.8	2505.1	2533.8	2552.9	2509.9	2531.4	2519.4	2495.5
10°	2598.3	2567.2	2581.6	2576.8	2564.8	2593.5	2574.4	2569.6	2550.5	2524.2	2562.5
12.5°	2615.0	2650.9	2674.8	2634.2	2641.3	2627.0	2615.0	2615.0	2593.5	2586.4	2593.5
15°	2689.1	2720.2	2710.7	2741.7	2701.1	2715.4	2729.8	2693.9	2713.0	2660.5	2701.1
17.5°	2825.4	2799.1	2832.6	2791.9	2806.3	2835.0	2789.5	2789.5	2803.9	2775.2	2739.3
20°	2911.4	2899.5	2887.5	2889.9	2866.0	2892.3	2878.0	2870.8	2849.3	2858.9	2878.0
22.5°	2992.7	2976.0	2980.8	2987.9	3004.7	2992.7	2985.5	2992.7	2940.1	2987.9	2921.0
25°	3093.1	3138.5	3124.2	3155.3	3107.5	3138.5	3136.1	3090.7	3119.4	3100.3	3085.9
27.5°	3260.4	3236.5	3258.0	3219.8	3253.3	3255.7	3227.0	3303.5	3270.0	3265.2	3255.7
30°	3475.6	3458.8	3444.5	3423.0	3449.3	3427.8	3451.7	3458.8	3427.8	3403.9	3358.4
32.5°	3597.5	3642.9	3659.6	3607.0	3609.4	3621.4	3599.9	3578.4	3597.5	3604.6	3597.5
35°	3769.6	3812.6	3822.2	3781.5	3760.0	3819.8	3776.8	3848.5	3786.3	3788.7	3724.2
37.5°	3970.4	3982.3	4063.6	4018.2	3999.1	3970.4	4049.3	4039.7	4054.0	3939.3	3996.7
40°	4197.5	4240.5	4285.9	4171.2	4168.8	4195.1	4190.3	4245.3	4219.0	4202.2	4161.6
42.5°	4446.1	4536.9	4544.1	4467.6	4419.8	4415.0	4438.9	4560.8	4563.2	4453.2	4405.4
45°	4775.9	4876.3	4850.0	4701.8	4649.2	4642.1	4759.2	4811.8	4857.2	4814.2	4773.5
47.5°	5187.1	5254.0	5234.9	5098.6	4928.9	4976.7	5091.4	5256.4	5208.6	5151.2	5103.4
50°	5626.9	5705.8	5665.1	5528.9	5366.3	5366.3	5507.4	5717.7	5703.4	5591.0	5548.0
52.5°	6114.5	6229.3	6322.5	6128.9	5992.6	6014.1	6236.4	6312.9	6277.1	6198.2	6162.3
55°	6477.9	6697.8	6889.0	6898.6	6905.7	6903.3	6960.7	7037.2	6781.4	6654.7	6525.7
57.5°	6389.4	6805.3	7460.3	7904.9	8036.4	8105.7	8086.6	7732.8	7128.0	6712.1	6755.1
60°	5758.4	6437.2	7493.7	8920.8	9876.9	9781.3	9432.3	8034.0	6936.8	6234.0	6145.6
62.5°	4594.3	5411.8	6932.0	9207.6	11841.8	11813.1	9986.9	7338.4	5779.9	4890.7	4835.7
64°	3461.2	4321.8	6183.8	9133.5	12530.2	12558.9	9845.9	6482.6	4522.5	3461.2	3377.6
65°	2648.5	3446.9	5450.0	8980.5	12382.0	12398.7	9453.8	5598.2	3437.3	2457.3	2366.4
67.5°	1054.1	1467.7	2956.9	6810.1	10632.3	10586.9	6745.6	2708.3	1314.7	855.7	839.0
70°	449.4	559.3	1037.4	3227.0	7118.5	6987.0	2904.3	879.6	487.6	408.7	406.4
72.5°	308.4	341.8	444.6	996.8	2959.3	2889.9	827.1	408.7	332.3	306.0	306.0
75°	248.6	272.5	322.7	418.3	784.0	755.4	389.6	301.2	265.3	246.2	243.8
77.5°	193.6	217.5	253.4	289.2	358.6	356.2	260.5	227.1	205.6	191.2	186.4
80°	153.0	176.9	200.8	205.6	234.3	229.5	176.9	179.3	167.3	138.6	136.2
82.5°	105.2	143.4	160.2	145.8	138.6	138.6	126.7	126.7	117.1	86.1	78.9
85°	64.5	95.6	100.4	86.1	64.5	64.5	69.3	66.9	62.1	45.4	43.0
87.5°	33.5	45.4	40.6	33.5	21.5	21.5	19.1	14.3	14.3	12.0	12.0
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)