

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: P478784

Luminaire Tested: **IFLD-S-SA3E-722-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478784
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-722-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

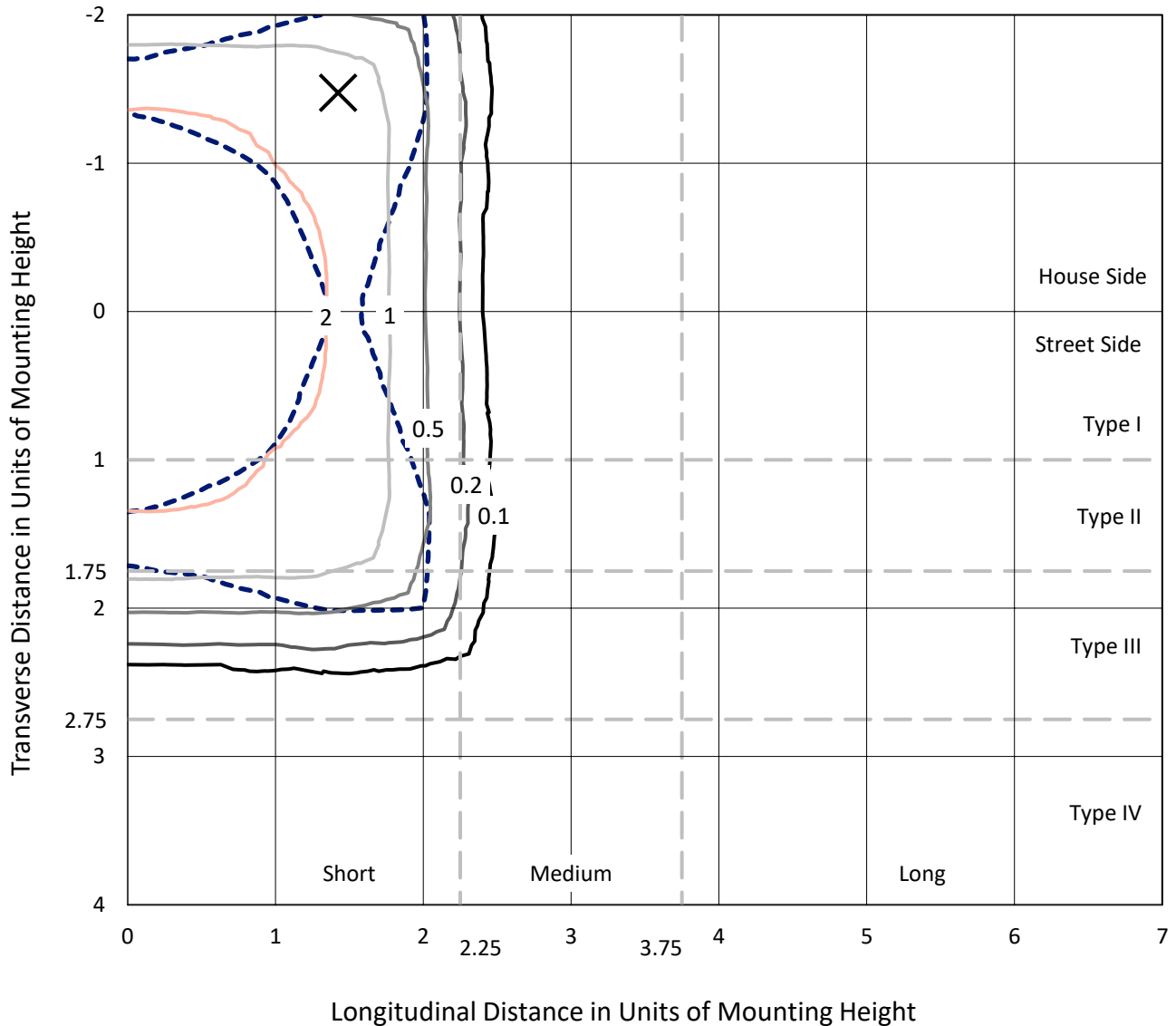
Lumens per Lamp: N/A
Luminaire Lumens: 19816.4 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 232.1
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

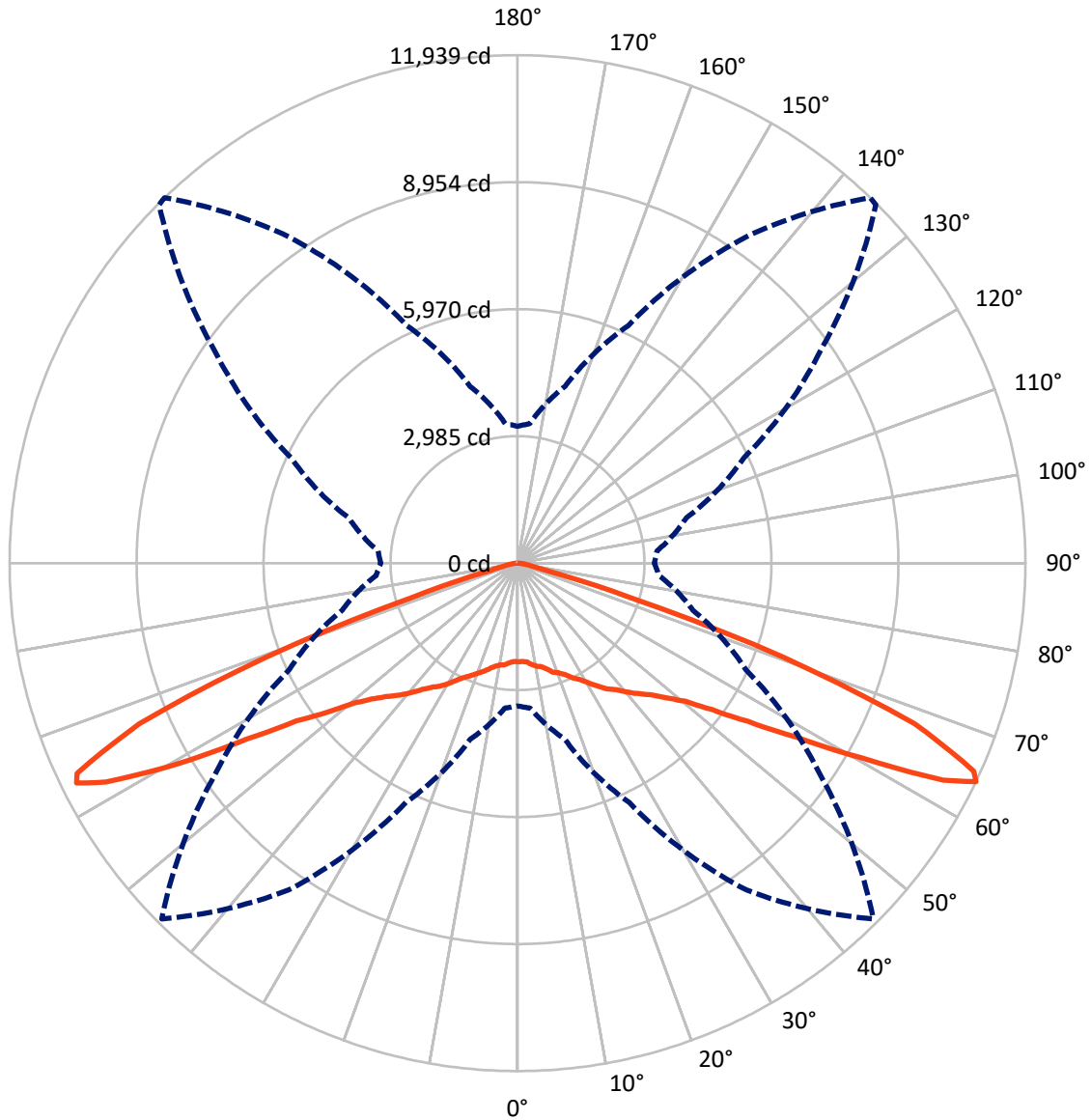
× Max cd
 - - - 1/2 Max cd



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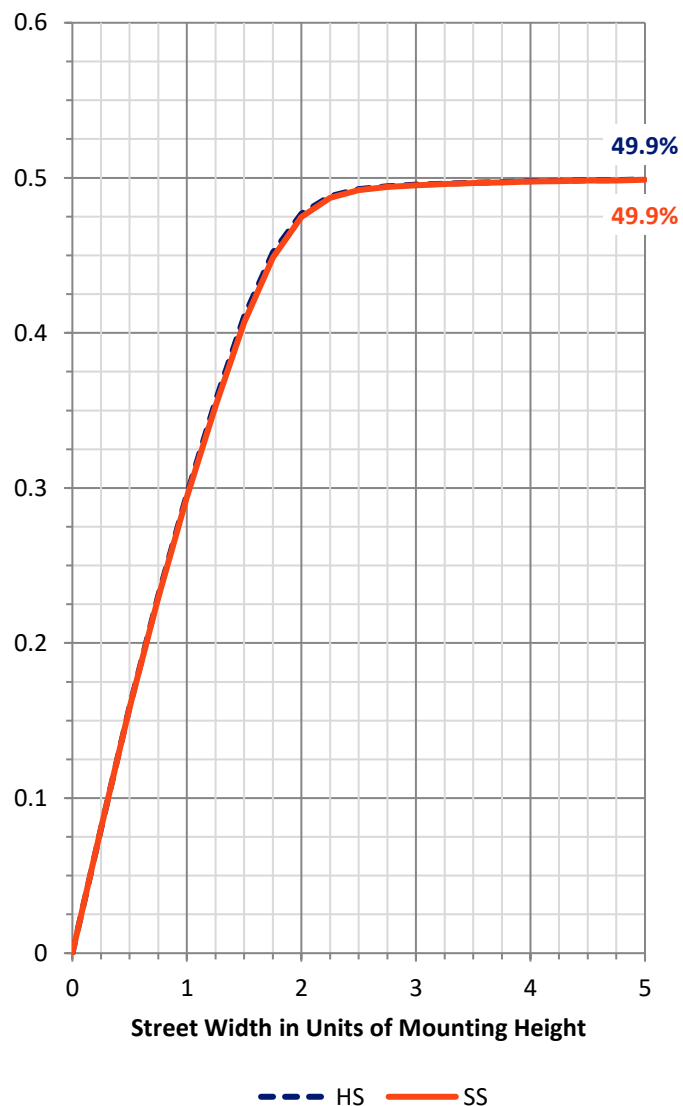
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9917.6	0.0	9917.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9898.7	0.0	9898.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	19816.4	0.0	19816.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.0	1.2
10°-20°	734.7	3.7
20°-30°	1380.9	7.0
30°-40°	2277.3	11.5
40°-50°	3561.5	18.0
50°-60°	5754.6	29.0
60°-70°	5181.6	26.1
70°-80°	613.8	3.1
80°-90°	84.0	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°	19816.4	100.0
0°-180°	19816.4	100.0

Coefficient of Utilization



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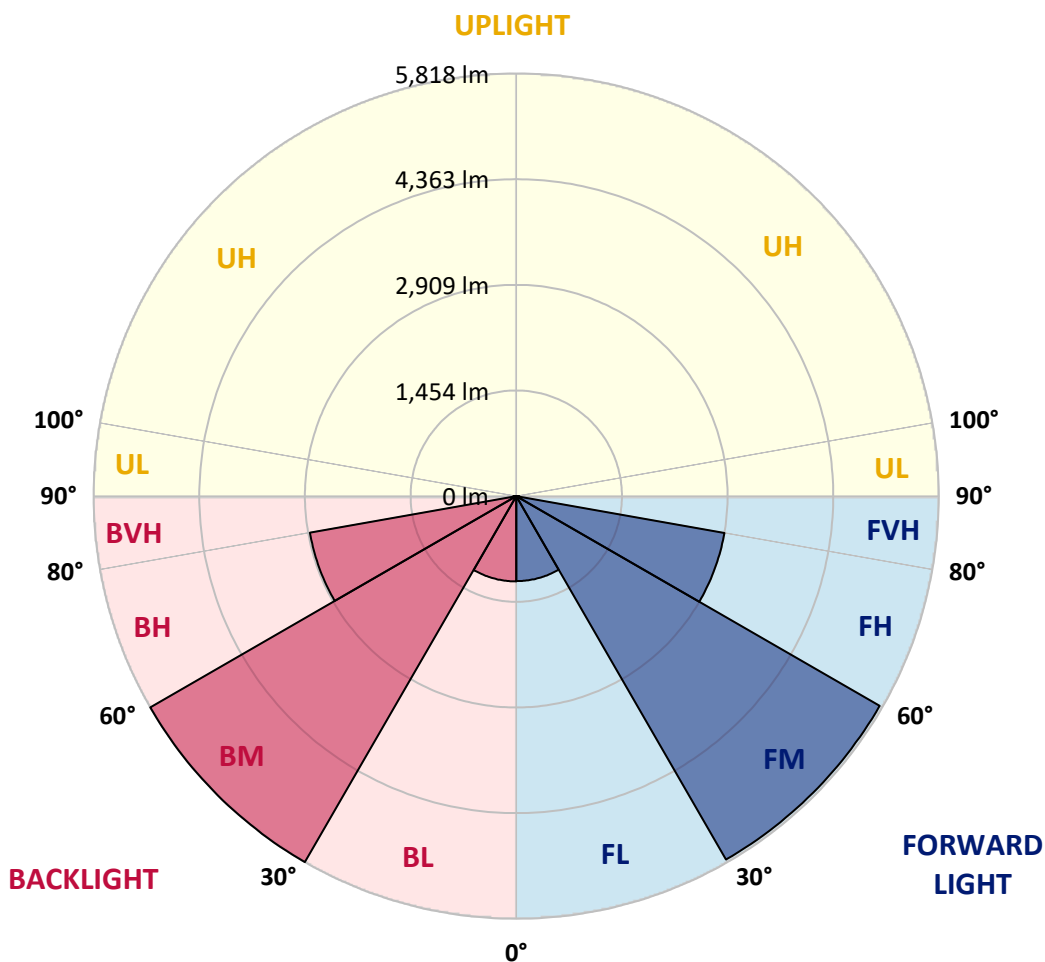
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1169.5	5.9			
FM (30°-60°)	5775.9	29.1			
FH (60°-80°)	2910.3	14.7			G2/5000
FVH (80°-90°)	43.1	0.2			G1/100
BL (0°-30°)	1174.0	5.9	B3/2500		
BM (30°-60°)	5817.5	29.4	B4/8500		
BH (60°-80°)	2885.1	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°	2320.1	2320.1	2320.1	2320.1	2320.1	2320.1	2320.1	2320.1	2320.1	2320.1	2320.1
2.5°	2292.8	2297.4	2338.3	2322.4	2336.0	2311.0	2329.2	2367.8	2322.4	2356.4	2367.8
5°	2317.8	2324.6	2324.6	2340.5	2349.6	2345.1	2356.4	2340.5	2383.7	2365.5	2392.8
7.5°	2408.7	2397.4	2379.2	2392.8	2395.1	2406.4	2417.8	2438.3	2431.4	2415.5	2442.8
10°	2424.6	2415.5	2442.8	2445.1	2433.7	2424.6	2436.0	2436.0	2456.4	2461.0	2461.0
12.5°	2451.9	2461.0	2458.7	2476.9	2479.2	2472.3	2490.5	2524.6	2515.5	2522.3	2506.4
15°	2556.4	2545.1	2542.8	2561.0	2590.5	2547.3	2579.1	2576.9	2567.8	2581.4	2545.1
17.5°	2647.3	2611.0	2626.9	2656.4	2645.0	2654.1	2695.0	2658.7	2667.8	2651.9	2640.5
20°	2726.8	2697.3	2699.6	2710.9	2710.9	2738.2	2754.1	2740.5	2731.4	2729.1	2733.7
22.5°	2815.5	2781.4	2783.7	2831.4	2847.3	2838.2	2826.8	2849.6	2854.1	2835.9	2856.4
25°	2881.4	2917.7	2929.1	2951.8	2917.7	2942.7	2933.6	2976.8	3004.1	2967.7	2992.7
27.5°	3054.1	3038.2	3067.7	3065.4	3092.7	3067.7	3083.6	3097.2	3108.6	3110.9	3099.5
30°	3208.6	3215.4	3185.9	3265.4	3201.8	3242.7	3269.9	3276.8	3290.4	3290.4	3256.3
32.5°	3372.2	3358.6	3406.3	3388.1	3376.7	3408.6	3379.0	3472.2	3417.6	3449.5	3410.8
35°	3556.3	3556.3	3574.4	3624.4	3556.3	3535.8	3590.3	3629.0	3629.0	3572.2	3585.8
37.5°	3763.0	3744.9	3767.6	3831.2	3779.0	3710.8	3810.8	3826.7	3815.3	3799.4	3772.1
40°	3908.5	3903.9	3949.4	4033.5	3958.5	3944.8	3963.0	4006.2	4019.8	4035.7	3999.4
42.5°	4153.9	4174.3	4306.1	4285.7	4224.3	4176.6	4172.1	4333.4	4294.8	4253.9	4233.4
45°	4517.5	4499.3	4567.5	4569.7	4490.2	4385.7	4408.4	4556.1	4622.0	4531.1	4565.2
47.5°	4806.1	4815.2	4862.9	4960.6	4776.5	4667.4	4751.5	4990.1	4969.7	4935.6	4967.4
50°	5192.4	5233.3	5383.2	5349.2	5185.6	5051.5	5235.5	5460.5	5485.5	5360.5	5337.8
52.5°	5726.4	5790.0	5871.8	5899.1	5742.3	5694.6	5705.9	5985.4	5924.1	5803.6	5726.4
55°	6194.5	6224.0	6374.0	6599.0	6587.6	6358.1	6489.9	6594.4	6344.5	6096.8	6117.2
57.5°	6394.5	6408.1	6826.2	7276.1	7544.3	7596.5	7446.6	7094.3	6499.0	6021.8	5992.2
60°	5896.8	6026.3	6530.8	7546.5	8771.4	9375.8	8378.2	7151.2	6137.7	5558.2	5515.0
62.5°	4712.9	4719.7	5469.6	7010.3	9534.9	11118.7	8735.0	6617.1	5174.2	4517.5	4344.8
64°	3356.3	3419.9	4281.1	6205.8	9375.8	11827.7	8691.8	5919.5	4265.2	3333.6	3213.1
65°	2408.7	2497.3	3329.0	5387.8	9003.1	11743.6	8562.3	5319.6	3449.5	2545.1	2422.3
67.5°	886.2	922.6	1306.6	2695.0	6464.9	10007.5	6785.3	2924.5	1515.7	1079.4	970.3
70°	411.3	413.6	484.0	890.8	2826.8	6692.1	3238.1	1097.6	570.4	452.2	420.4
72.5°	302.2	309.0	338.6	411.3	831.7	2833.6	1063.5	449.9	334.0	295.4	288.6
75°	245.4	250.0	259.1	297.7	384.0	759.0	431.8	311.3	265.9	238.6	229.5
77.5°	188.6	188.6	209.1	227.2	254.5	354.5	286.3	247.7	215.9	188.6	181.8
80°	136.3	138.6	163.6	177.2	172.7	234.1	206.8	204.5	177.2	147.7	136.3
82.5°	79.5	86.4	118.2	127.3	122.7	138.6	150.0	159.1	138.6	102.3	93.2
85°	45.4	47.7	68.2	70.4	70.4	65.9	86.4	95.4	93.2	63.6	56.8
87.5°	13.6	13.6	18.2	18.2	20.5	22.7	34.1	40.9	45.4	31.8	29.5
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°	2320.1	2320.1	2320.1	2320.1	2320.1	2320.1	2320.1	2320.1	2320.1	2320.1	2320.1
2.5°	2356.4	2322.4	2324.6	2333.7	2304.2	2315.5	2349.6	2324.6	2317.8	2304.2	2297.4
5°	2345.1	2381.4	2367.8	2372.4	2365.5	2333.7	2329.2	2349.6	2361.0	2340.5	2381.4
7.5°	2424.6	2408.7	2390.5	2397.4	2381.4	2408.7	2426.9	2386.0	2406.4	2395.1	2372.4
10°	2470.1	2440.5	2454.2	2449.6	2438.3	2465.5	2447.3	2442.8	2424.6	2399.6	2436.0
12.5°	2486.0	2520.1	2542.8	2504.2	2511.0	2497.3	2486.0	2486.0	2465.5	2458.7	2465.5
15°	2556.4	2586.0	2576.9	2606.4	2567.8	2581.4	2595.0	2561.0	2579.1	2529.1	2567.8
17.5°	2685.9	2660.9	2692.8	2654.1	2667.8	2695.0	2651.9	2651.9	2665.5	2638.2	2604.1
20°	2767.7	2756.4	2745.0	2747.3	2724.6	2749.6	2735.9	2729.1	2708.7	2717.8	2735.9
22.5°	2845.0	2829.1	2833.6	2840.5	2856.4	2845.0	2838.2	2845.0	2795.0	2840.5	2776.8
25°	2940.4	2983.6	2970.0	2999.5	2954.1	2983.6	2981.4	2938.2	2965.4	2947.3	2933.6
27.5°	3099.5	3076.8	3097.2	3060.9	3092.7	3095.0	3067.7	3140.4	3108.6	3104.1	3095.0
30°	3304.0	3288.1	3274.5	3254.0	3279.0	3258.6	3281.3	3288.1	3258.6	3235.9	3192.7
32.5°	3419.9	3463.1	3479.0	3429.0	3431.3	3442.6	3422.2	3401.7	3419.9	3426.7	3419.9
35°	3583.5	3624.4	3633.5	3594.9	3574.4	3631.2	3590.3	3658.5	3599.4	3601.7	3540.4
37.5°	3774.4	3785.8	3863.0	3819.9	3801.7	3774.4	3849.4	3840.3	3853.9	3744.9	3799.4
40°	3990.3	4031.2	4074.4	3965.3	3963.0	3988.0	3983.5	4035.7	4010.7	3994.8	3956.2
42.5°	4226.6	4313.0	4319.8	4247.1	4201.6	4197.1	4219.8	4335.7	4338.0	4233.4	4188.0
45°	4540.2	4635.6	4610.6	4469.8	4419.8	4412.9	4524.3	4574.3	4617.5	4576.6	4537.9
47.5°	4931.0	4994.7	4976.5	4847.0	4685.6	4731.1	4840.2	4996.9	4951.5	4897.0	4851.5
50°	5349.2	5424.1	5385.5	5256.0	5101.5	5101.5	5235.5	5435.5	5421.9	5315.1	5274.2
52.5°	5812.7	5921.8	6010.4	5826.4	5696.8	5717.3	5928.6	6001.3	5967.2	5892.3	5858.2
55°	6158.1	6367.2	6549.0	6558.1	6564.9	6562.6	6617.1	6689.9	6446.7	6326.3	6203.6
57.5°	6074.0	6469.4	7092.1	7514.7	7639.7	7705.6	7687.4	7351.1	6776.2	6380.8	6421.7
60°	5474.1	6119.5	7123.9	8480.5	9389.4	9298.5	8966.8	7637.4	6594.4	5926.3	5842.3
62.5°	4367.5	5144.6	6589.9	8753.2	11257.3	11230.1	9494.0	6976.2	5494.6	4649.3	4597.0
64°	3290.4	4108.4	5878.6	8682.7	11911.8	11939.0	9359.9	6162.7	4299.3	3290.4	3210.9
65°	2517.8	3276.8	5181.0	8537.3	11770.9	11786.8	8987.2	5321.9	3267.7	2336.0	2249.6
67.5°	1002.1	1395.2	2810.9	6474.0	10107.5	10064.3	6412.6	2574.6	1249.8	813.5	797.6
70°	427.2	531.7	986.2	3067.7	6767.1	6642.1	2760.9	836.2	463.6	388.6	386.3
72.5°	293.1	324.9	422.7	947.6	2813.2	2747.3	786.2	388.6	315.9	290.9	290.9
75°	236.3	259.1	306.8	397.7	745.3	718.1	370.4	286.3	252.2	234.1	231.8
77.5°	184.1	206.8	240.9	275.0	340.9	338.6	247.7	215.9	195.4	181.8	177.2
80°	145.4	168.2	190.9	195.4	222.7	218.1	168.2	170.4	159.1	131.8	129.5
82.5°	100.0	136.3	152.2	138.6	131.8	131.8	120.4	120.4	111.3	81.8	75.0
85°	61.4	90.9	95.4	81.8	61.4	61.4	65.9	63.6	59.1	43.2	40.9
87.5°	31.8	43.2	38.6	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)