

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: P479970

Luminaire Tested: **IFLD-M-SA4A-722-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479970
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-722-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

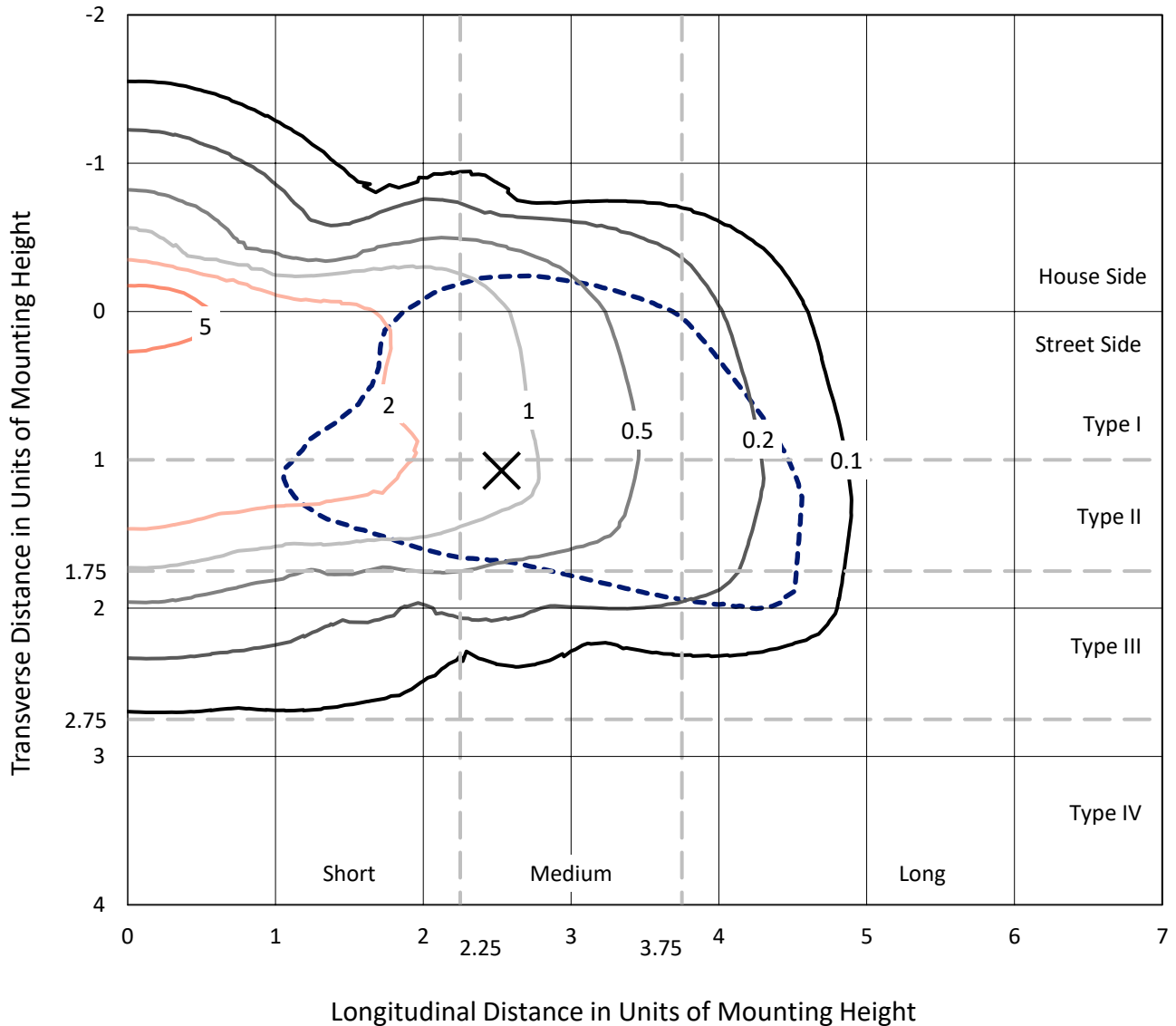
Lumens per Lamp: N/A
Luminaire Lumens: 13563 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 128.6
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

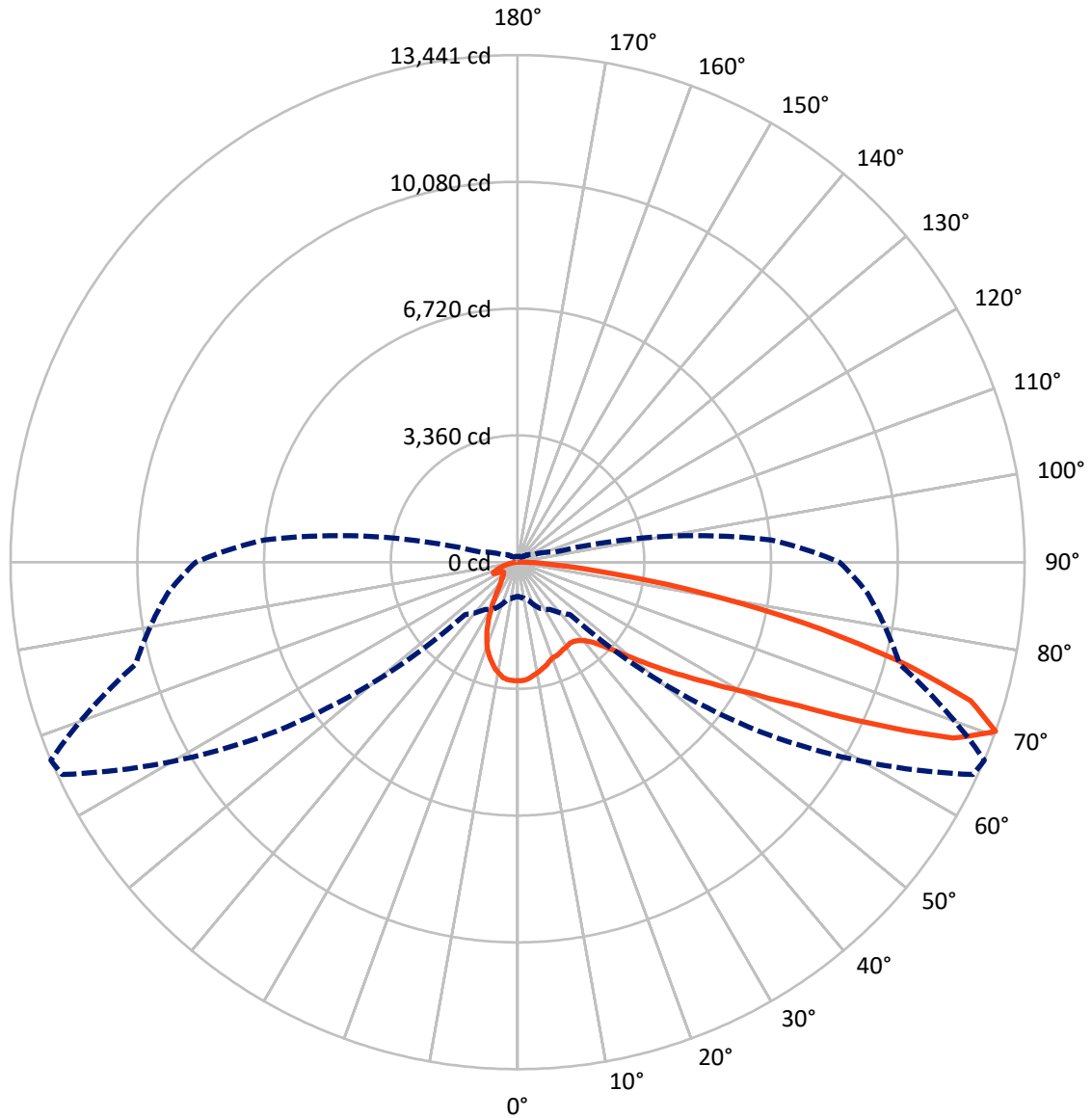
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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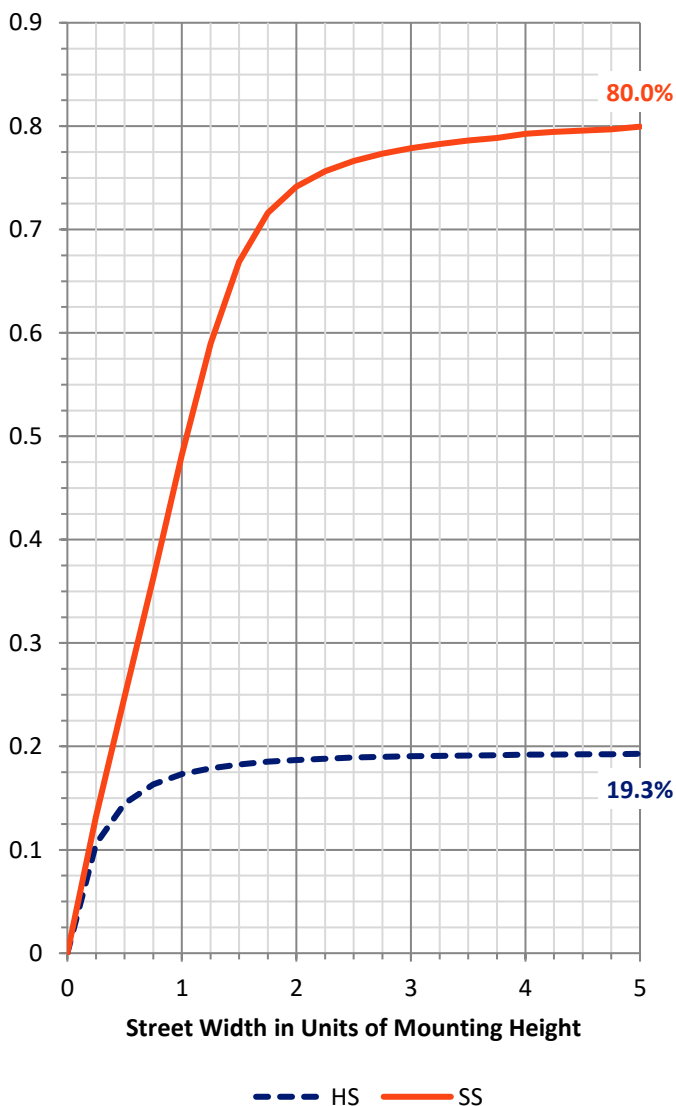
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2641.5	0.0	2641.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	10921.5	0.0	10921.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	13563.0	0.0	13563.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.0	2.0
10°-20°	656.1	4.8
20°-30°	886.0	6.5
30°-40°	1185.6	8.7
40°-50°	1743.4	12.9
50°-60°	2717.5	20.0
60°-70°	3347.5	24.7
70°-80°	2365.3	17.4
80°-90°	387.7	2.9
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°	13563.0	100.0
0°-180°	13563.0	100.0

Coefficient of Utilization

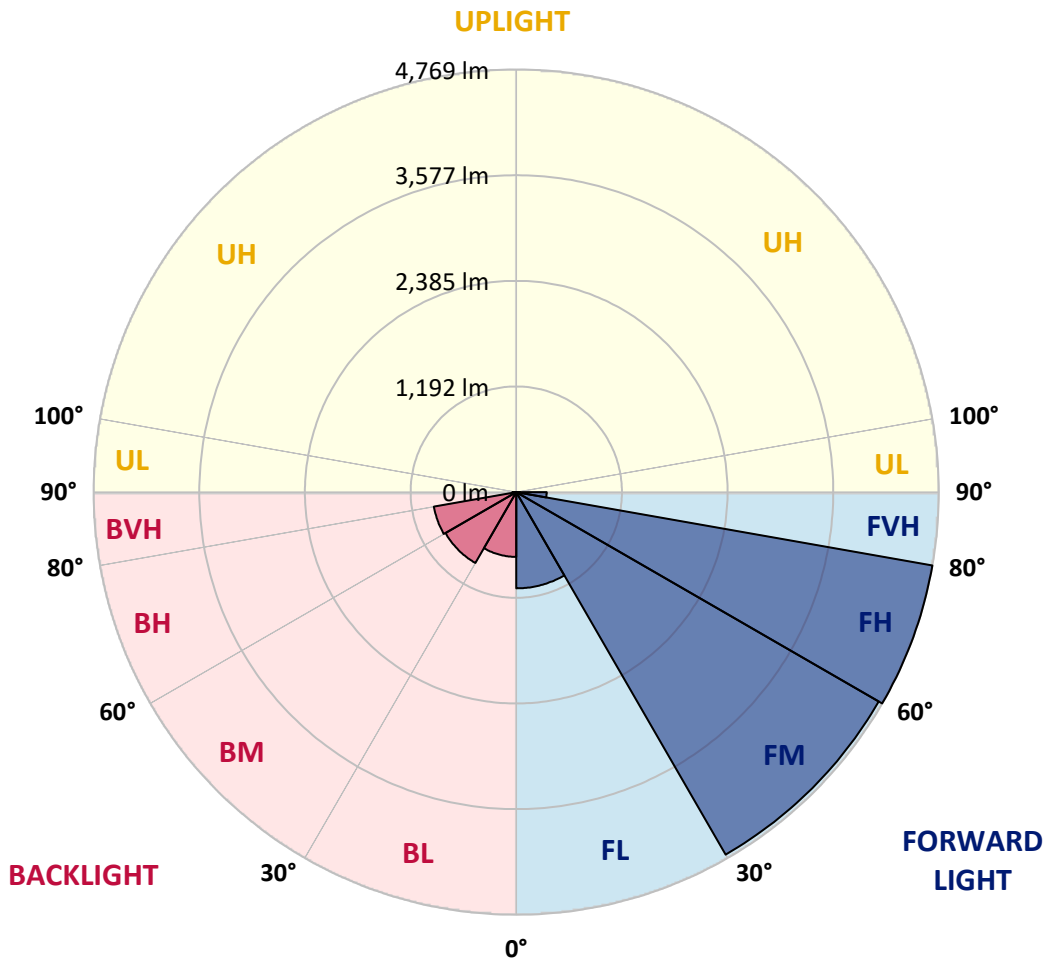


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1085.6	8.0			
FM (30°-60°)	4723.7	34.8			
FH (60°-80°)	4769.2	35.2			G2/5000
FVH (80°-90°)	343.0	2.5			G3/500
BL (0°-30°)	730.5	5.4	B2/1000		
BM (30°-60°)	922.7	6.8	B1/1000		
BH (60°-80°)	943.6	7.0	B2/1000		G2/1000
BVH (80°-90°)	44.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8
2.5°	2923.6	2956.6	2968.6	2986.6	3033.2	3067.7	3088.7	3112.8	3141.3	3165.3	3180.3
5°	2719.4	2737.4	2765.9	2785.4	2844.0	2937.1	3000.2	3102.3	3099.3	3136.8	3193.9
7.5°	2521.2	2539.2	2552.7	2591.7	2675.8	2759.9	2875.5	3040.7	3028.7	3115.8	3204.4
10°	2398.0	2384.5	2389.0	2455.1	2521.2	2615.7	2761.4	2929.6	2973.1	3108.3	3234.4
12.5°	2282.4	2267.4	2303.4	2345.5	2426.6	2512.1	2686.3	2838.0	2904.1	3081.2	3247.9
15°	2210.3	2199.8	2244.9	2262.9	2359.0	2461.1	2584.2	2768.9	2841.0	3048.2	3226.9
17.5°	2169.8	2178.8	2195.3	2234.3	2295.9	2383.0	2518.1	2722.4	2753.9	3007.7	3222.4
20°	2177.3	2187.8	2189.3	2205.8	2247.9	2315.4	2453.6	2672.8	2693.8	3000.2	3234.4
22.5°	2237.4	2222.3	2228.3	2217.8	2229.8	2282.4	2404.0	2606.7	2687.8	2937.1	3208.9
25°	2327.4	2306.4	2303.4	2267.4	2244.9	2259.9	2395.0	2590.2	2642.8	2917.6	3207.4
27.5°	2486.6	2455.1	2455.1	2401.0	2309.4	2285.4	2369.5	2563.2	2609.7	2899.5	3172.8
30°	2639.8	2639.8	2641.3	2564.7	2462.6	2344.0	2380.0	2552.7	2582.7	2845.5	3126.3
32.5°	2826.0	2821.5	2814.0	2776.4	2618.8	2441.6	2431.1	2539.2	2554.2	2827.5	3112.8
35°	3007.7	2995.6	3054.2	3021.2	2860.5	2632.3	2483.6	2545.2	2578.2	2800.4	3070.7
37.5°	3144.3	3151.8	3273.4	3294.5	3156.3	2848.5	2632.3	2605.2	2636.8	2839.5	3070.7
40°	3321.5	3351.5	3465.6	3536.2	3452.1	3133.8	2868.0	2705.8	2728.4	2926.6	3136.8
42.5°	3554.2	3579.8	3725.4	3817.0	3793.0	3497.2	3100.8	2916.1	2898.0	3072.2	3235.9
45°	3862.1	3866.6	4013.7	4139.9	4189.4	3877.1	3470.1	3181.8	3166.8	3323.0	3417.6
47.5°	4228.4	4223.9	4315.5	4450.7	4584.3	4330.6	3895.1	3585.8	3531.7	3681.9	3719.4
50°	4582.8	4563.3	4584.3	4757.0	5013.8	4898.1	4411.6	4079.8	4025.7	4108.3	4172.9
52.5°	4778.0	4802.0	4745.0	4973.2	5470.3	5569.4	5096.4	4669.9	4623.4	4663.9	4776.5
55°	4641.4	4690.9	4653.4	4869.6	5670.0	6387.7	5982.3	5353.1	5293.1	5278.0	5462.7
57.5°	4060.3	4150.4	4157.9	4500.2	5600.9	7021.4	7228.6	6159.5	6069.4	5916.2	6106.9
60°	3117.3	3207.4	3276.4	3681.9	5009.3	7399.8	8673.1	7306.7	7009.4	6613.0	6727.1
62.5°	2184.8	2246.4	2315.4	2564.7	3862.1	7177.5	9922.4	8922.4	8374.3	7347.2	7489.9
65°	1591.7	1639.7	1710.3	1857.5	2372.5	5938.7	10502.0	10841.4	10321.9	8281.2	8263.2
67.5°	1198.3	1228.3	1321.4	1557.1	1644.2	3668.4	9901.4	12868.5	12448.1	9318.8	8884.8
70°	907.0	932.5	1019.6	1342.4	1536.1	1967.1	7811.2	13320.5	13440.6	10482.5	9302.3
72.5°	624.7	653.2	750.8	1118.7	1462.5	1560.1	4902.7	12101.2	12556.2	10961.5	8854.8
75°	382.9	402.4	459.5	848.4	1452.0	1525.6	2698.3	9916.4	10398.4	10128.1	7746.6
77.5°	270.3	268.8	279.3	497.0	1258.3	1534.6	1663.7	7266.1	7734.6	7464.3	5257.0
80°	196.7	198.2	208.7	297.3	854.4	1560.1	1310.9	4866.6	5006.3	3892.1	2073.7
82.5°	118.6	124.6	150.2	201.2	513.5	1408.5	1211.8	2704.3	2530.2	1249.3	570.6
85°	63.1	63.1	88.6	127.6	273.3	1051.1	1166.7	1286.9	1078.1	387.4	211.7
87.5°	15.0	15.0	25.5	51.1	109.6	503.0	795.8	512.0	409.9	130.6	87.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8
2.5°	3174.3	3156.3	3178.8	3133.8	3097.8	3099.3	3043.7	3040.7	3033.2	2994.1	3007.7
5°	3210.4	3195.4	3169.8	3120.3	3040.7	2961.1	2913.1	2851.5	2826.0	2812.5	2818.5
7.5°	3244.9	3217.9	3144.3	3075.2	2952.1	2801.9	2714.9	2632.3	2527.2	2515.1	2494.1
10°	3253.9	3196.9	3102.3	2955.1	2791.4	2624.8	2426.6	2273.4	2192.3	2129.2	2105.2
12.5°	3240.4	3216.4	3034.7	2845.5	2597.7	2336.5	2105.2	1889.0	1738.8	1660.7	1639.7
15°	3238.9	3196.9	2959.6	2678.8	2362.0	2021.1	1692.3	1432.5	1274.8	1210.3	1210.3
17.5°	3240.4	3139.8	2871.0	2510.6	2084.2	1623.2	1261.3	1048.1	961.0	952.0	959.5
20°	3210.4	3097.8	2777.9	2312.4	1735.8	1219.3	916.0	828.9	828.9	840.9	845.4
22.5°	3183.3	3034.7	2630.8	2067.7	1381.5	882.9	744.8	719.3	747.8	768.8	777.8
25°	3145.8	2982.1	2480.6	1813.9	1051.1	711.7	647.2	653.2	680.2	717.8	714.8
27.5°	3091.8	2890.5	2301.9	1519.6	782.3	614.1	597.6	600.6	629.2	645.7	642.7
30°	3030.2	2797.4	2136.7	1226.8	620.2	563.1	561.6	569.1	573.6	582.6	581.1
32.5°	2952.1	2674.3	1961.1	953.5	558.6	534.6	528.6	524.1	528.6	527.1	522.5
35°	2896.5	2608.2	1782.4	726.8	524.1	509.0	504.5	497.0	491.0	482.0	480.5
37.5°	2881.5	2542.2	1594.7	593.1	497.0	489.5	474.5	461.0	453.5	449.0	446.0
40°	2872.5	2498.6	1411.5	521.0	474.5	467.0	449.0	431.0	423.4	418.9	420.4
42.5°	2904.1	2474.6	1225.3	485.0	455.0	441.5	421.9	400.9	399.4	396.4	400.9
45°	3015.2	2504.6	1052.6	459.5	435.5	412.9	387.4	376.9	375.4	372.4	375.4
47.5°	3267.4	2579.7	905.5	443.0	414.4	394.9	367.9	352.9	351.4	349.9	349.9
50°	3615.8	2811.0	782.3	423.4	400.9	373.9	348.4	331.8	328.8	322.8	322.8
52.5°	4162.4	3199.9	708.7	412.9	376.9	354.4	327.3	309.3	301.8	295.8	295.8
55°	4778.0	3681.9	695.2	394.9	351.4	330.3	306.3	288.3	280.8	273.3	270.3
57.5°	5479.3	4320.0	791.3	382.9	333.4	306.3	279.3	262.8	256.8	249.3	246.3
60°	6132.4	4956.7	1090.1	364.9	316.8	283.8	256.8	240.3	232.7	225.2	225.2
62.5°	6887.7	5745.0	1596.2	364.9	301.8	259.8	232.7	220.7	216.2	208.7	207.2
65°	7781.2	6560.4	1965.6	387.4	297.3	238.8	210.2	198.2	193.7	189.2	187.7
67.5°	8461.4	7028.9	1690.8	447.5	316.8	220.7	187.7	180.2	177.2	172.7	169.7
70°	8533.5	6743.6	1019.6	483.5	336.4	202.7	168.2	160.7	160.7	156.2	153.2
72.5°	7886.3	5983.8	686.2	431.0	304.8	181.7	148.7	142.6	139.6	136.6	135.1
75°	6599.4	5075.3	542.1	343.9	234.2	150.2	129.1	123.1	118.6	117.1	114.1
77.5°	4432.7	3299.0	400.9	268.8	172.7	121.6	108.1	102.1	97.6	96.1	91.6
80°	1702.8	1256.8	258.3	195.2	121.6	96.1	85.6	79.6	76.6	72.1	69.1
82.5°	501.5	406.9	144.2	120.1	78.1	66.1	61.6	57.1	52.6	48.1	46.5
85°	207.2	186.2	88.6	63.1	48.1	39.0	36.0	31.5	27.0	24.0	21.0
87.5°	96.1	79.6	40.5	24.0	16.5	9.0	4.5	1.5	0.0	0.0	0.0
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)