

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: P483871

Luminaire Tested: **IFLD-M-SA4B-722-U-SL2-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P483871  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-722-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2  
distribution lens with House Side Shield  
Light Source: (64) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

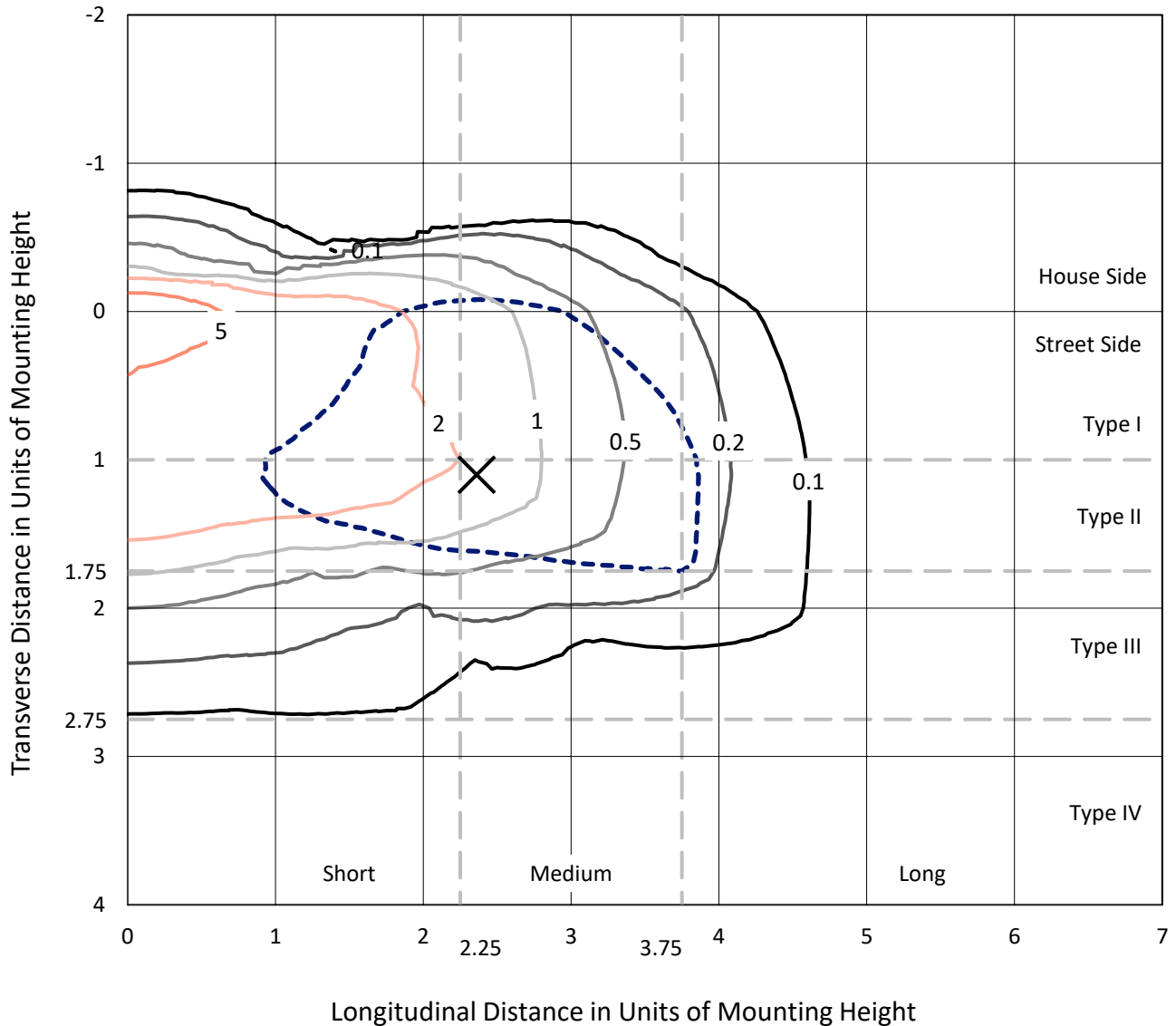
Lumens per Lamp: N/A  
Luminaire Lumens: 13846.6 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 166.1  
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

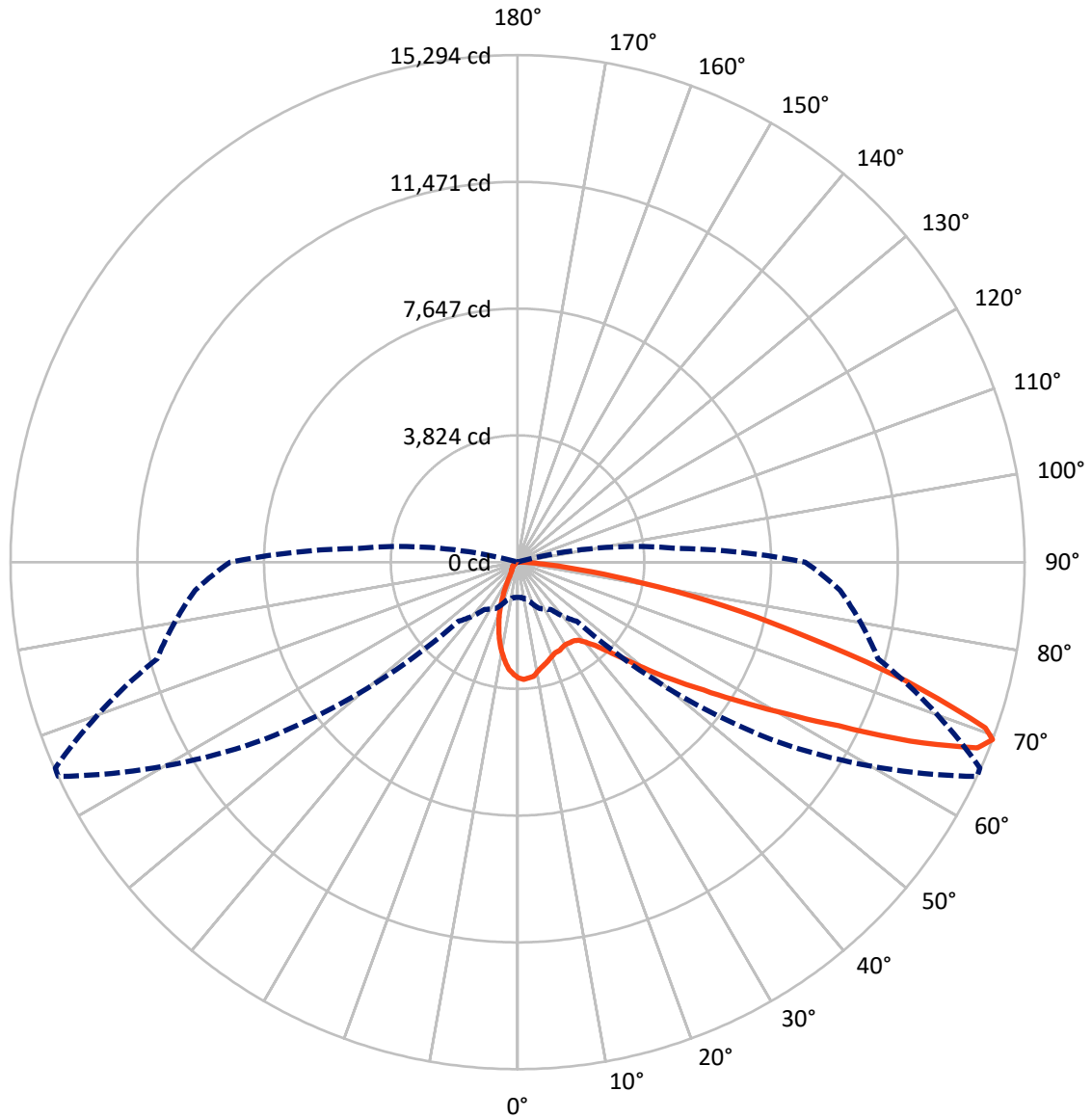
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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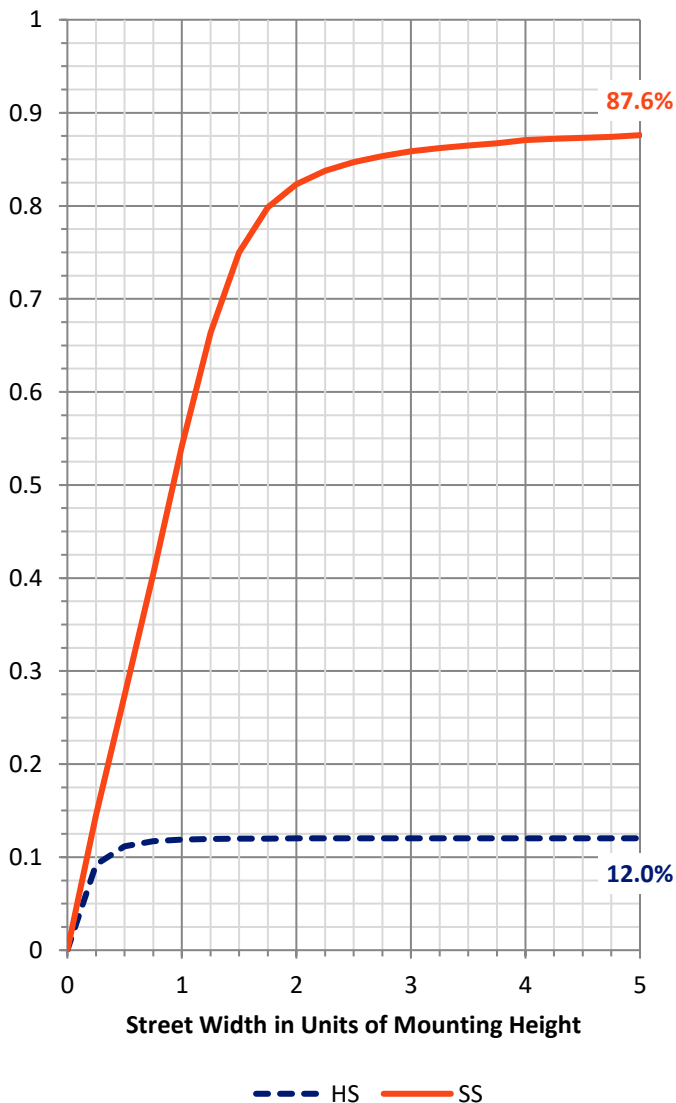
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1679.7	0.0	1679.7
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	12167.0	0.0	12167.0
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	13846.6	0.0	13846.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.7	2.1
10°-20°	625.1	4.5
20°-30°	870.2	6.3
30°-40°	1233.2	8.9
40°-50°	1943.5	14.0
50°-60°	3153.6	22.8
60°-70°	3522.0	25.4
70°-80°	1983.3	14.3
80°-90°	230.1	1.7
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°	13846.6	100.0
0°-180°	13846.6	100.0

**Coefficient of Utilization**

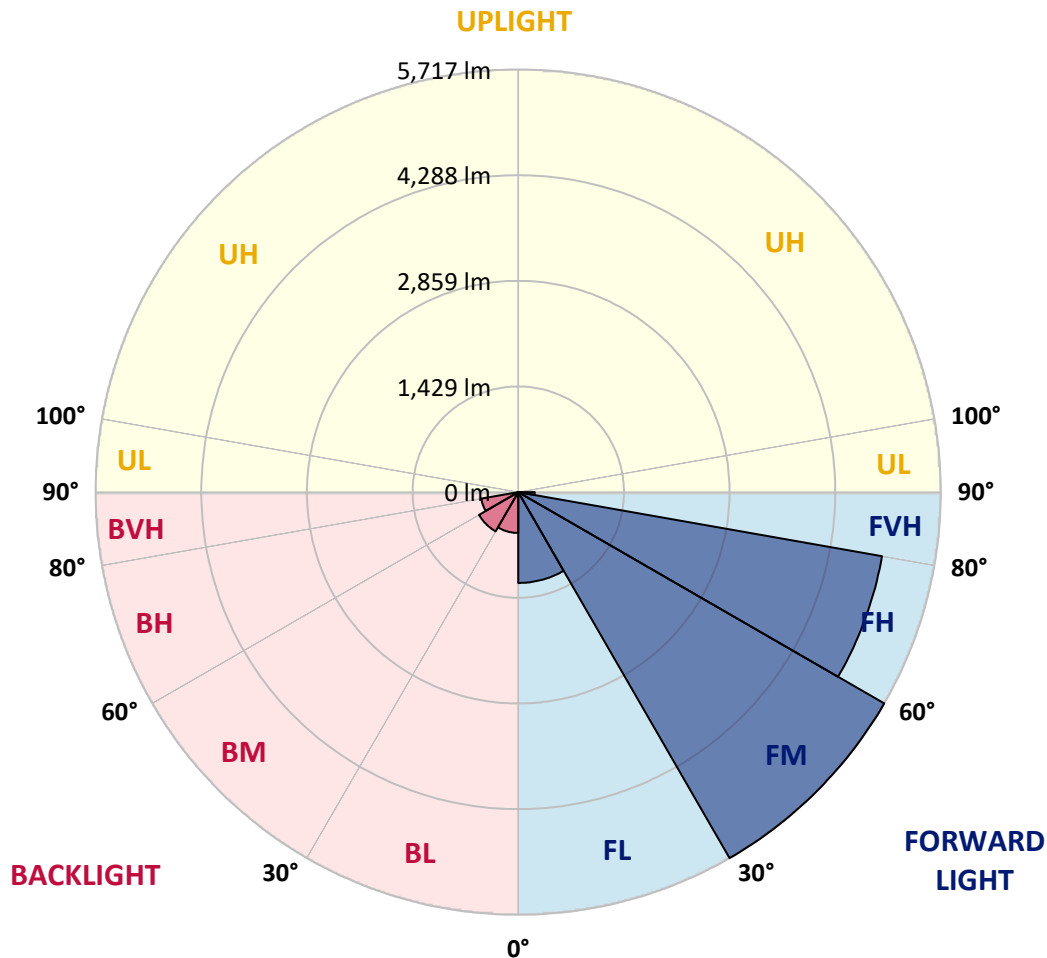


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1228.8	8.9			
FM (30°-60°)	5717.4	41.3			
FH (60°-80°)	4997.0	36.1			G2/5000
FVH (80°-90°)	223.8	1.6			G2/225
BL (0°-30°)	552.2	4.0	B2/1000		
BM (30°-60°)	612.9	4.4	B1/1000		
BH (60°-80°)	508.2	3.7	B2/1000		G2/1000
BVH (80°-90°)	6.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3491.1	3491.1	3491.1	3491.1	3491.1	3491.1	3491.1	3491.1	3491.1	3491.1	3491.1
2.5°	3362.2	3388.3	3395.8	3422.0	3435.0	3491.1	3522.8	3541.5	3532.2	3552.7	3554.6
5°	3123.1	3108.1	3147.4	3175.4	3235.2	3332.3	3431.3	3507.9	3543.4	3577.0	3571.4
7.5°	2867.2	2859.7	2898.9	2962.5	3016.6	3134.3	3293.1	3481.7	3474.3	3556.4	3580.7
10°	2691.6	2699.1	2712.2	2775.7	2856.0	2975.5	3173.5	3349.1	3388.3	3562.0	3610.6
12.5°	2531.0	2544.0	2568.3	2633.7	2727.1	2850.4	3042.8	3248.2	3308.0	3530.3	3627.4
15°	2478.7	2448.8	2497.4	2545.9	2643.0	2753.3	2915.8	3171.7	3197.8	3492.9	3655.4
17.5°	2435.7	2417.0	2439.4	2478.7	2581.4	2671.1	2824.2	3089.5	3138.0	3478.0	3651.7
20°	2448.8	2432.0	2441.3	2471.2	2517.9	2602.0	2743.9	3011.0	3063.3	3408.9	3646.1
22.5°	2486.1	2499.2	2482.4	2489.9	2504.8	2547.8	2701.0	2955.0	2999.8	3395.8	3677.8
25°	2654.3	2631.8	2609.4	2600.1	2512.3	2531.0	2687.9	2951.2	2983.0	3349.1	3651.7
27.5°	2829.8	2811.2	2801.8	2747.6	2628.1	2572.1	2689.7	2898.9	2941.9	3330.4	3619.9
30°	3042.8	3067.1	3029.7	2964.3	2798.1	2659.9	2710.3	2872.8	2932.6	3259.4	3599.4
32.5°	3266.9	3280.0	3298.7	3250.1	3035.3	2792.5	2771.9	2897.1	2900.8	3259.4	3552.7
35°	3520.9	3502.3	3550.8	3554.6	3365.9	3027.8	2889.6	2913.9	2953.1	3244.5	3535.9
37.5°	3739.5	3771.2	3827.3	3916.9	3722.7	3360.3	3072.7	2992.3	3009.1	3313.6	3549.0
40°	3978.6	4010.3	4137.3	4227.0	4116.8	3733.9	3351.0	3175.4	3188.5	3416.3	3616.2
42.5°	4241.9	4303.6	4454.9	4611.8	4581.9	4208.3	3709.6	3444.4	3438.8	3672.2	3754.4
45°	4598.7	4680.9	4845.3	5026.5	5052.6	4751.9	4187.8	3846.0	3864.6	4006.6	4040.2
47.5°	5095.6	5091.8	5252.5	5454.2	5605.5	5316.0	4759.4	4385.8	4383.9	4535.2	4464.2
50°	5575.6	5577.5	5620.4	5853.9	6246.2	6098.6	5467.3	5103.0	5082.5	5157.2	5043.3
52.5°	5797.9	5771.7	5740.0	6022.0	6739.3	7084.9	6363.9	5915.6	5898.8	5853.9	5824.0
55°	5564.4	5573.7	5571.9	5865.1	6998.9	8125.3	7514.5	6810.3	6782.3	6642.2	6683.3
57.5°	4815.4	4785.5	4850.9	5308.5	6701.9	8835.1	9160.1	7938.5	7865.6	7400.5	7307.1
60°	3584.5	3593.8	3648.0	4187.8	5964.1	8984.5	10734.7	9262.8	8949.0	7934.7	7805.9
62.5°	2503.0	2484.3	2504.8	2807.4	4264.4	8386.8	11799.4	10872.9	10570.3	8541.8	8467.1
65°	1791.3	1767.0	1849.2	2034.1	2560.9	6412.4	11950.7	13017.2	12746.4	9511.2	9331.9
67.5°	1288.8	1285.1	1380.4	1716.6	1819.3	3692.8	10830.0	14959.8	14795.5	10661.8	9858.7
69°	1066.6	1068.4	1160.0	1537.3	1737.1	2521.6	9318.8	15294.2	15264.3	11255.8	9759.7
70°	930.2	937.7	1044.1	1430.8	1703.5	2073.3	8033.7	14965.4	14935.5	11371.6	9432.8
72.5°	573.4	579.0	719.1	1146.9	1619.4	1692.3	4804.2	12243.9	12346.7	10841.2	8127.1
75°	274.6	276.4	377.3	829.3	1561.5	1604.5	2573.9	9034.9	9251.6	8752.9	6350.8
77.5°	145.7	145.7	181.2	440.8	1264.6	1509.2	1527.9	6373.2	6552.5	5534.5	3610.6
80°	72.8	74.7	110.2	229.7	784.5	1479.4	1193.6	3801.1	3898.3	2258.3	1124.5
82.5°	28.0	29.9	52.3	138.2	407.2	1249.6	1047.9	1869.7	1845.5	528.6	274.6
85°	3.7	3.7	18.7	82.2	173.7	551.0	864.8	780.8	754.6	115.8	132.6
87.5°	0.0	0.0	3.7	24.3	52.3	160.6	334.3	214.8	239.1	31.8	65.4
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°	3491.1	3491.1	3491.1	3491.1	3491.1	3491.1	3491.1	3491.1	3491.1	3491.1	3491.1
2.5°	3545.2	3506.0	3446.2	3388.3	3326.7	3252.0	3169.8	3139.9	3087.6	3083.9	3113.8
5°	3541.5	3478.0	3373.4	3250.1	3074.5	2941.9	2798.1	2693.5	2613.2	2560.9	2573.9
7.5°	3560.2	3483.6	3302.4	3037.2	2811.2	2547.8	2325.5	2172.3	2032.3	1963.1	1955.7
10°	3530.3	3427.6	3162.3	2790.6	2458.1	2090.2	1765.1	1559.7	1350.5	1273.9	1277.6
12.5°	3547.1	3403.3	3011.0	2536.6	2078.9	1600.8	1212.3	932.1	735.9	672.4	665.0
15°	3558.3	3351.0	2865.3	2232.1	1658.7	1090.8	702.3	528.6	467.0	455.8	453.9
17.5°	3515.3	3287.5	2659.9	1931.4	1229.1	663.1	467.0	431.5	420.3	412.8	409.1
20°	3513.5	3250.1	2482.4	1623.2	820.0	452.0	403.5	390.4	373.6	368.0	368.0
22.5°	3481.7	3171.7	2269.5	1285.1	523.0	388.5	362.4	341.8	323.1	315.7	313.8
25°	3472.4	3080.1	2069.6	965.7	397.9	347.4	321.3	291.4	269.0	257.8	252.2
27.5°	3446.2	3001.7	1867.9	679.9	347.4	310.1	276.4	244.7	218.5	201.7	199.9
30°	3352.8	2919.5	1643.7	470.7	315.7	274.6	237.2	199.9	173.7	162.5	158.8
32.5°	3313.6	2842.9	1399.0	362.4	287.7	242.8	199.9	166.2	145.7	134.5	132.6
35°	3266.9	2730.8	1161.8	315.7	261.5	211.1	168.1	140.1	123.3	113.9	113.9
37.5°	3272.5	2641.2	939.5	285.8	233.5	181.2	143.8	119.5	104.6	95.3	95.3
40°	3255.7	2570.2	730.3	259.6	207.3	155.0	121.4	100.9	87.8	78.5	76.6
42.5°	3332.3	2551.5	551.0	237.2	181.2	132.6	104.6	85.9	72.8	61.6	61.6
45°	3461.2	2581.4	429.6	216.7	155.0	113.9	89.7	71.0	57.9	50.4	48.6
47.5°	3804.9	2699.1	336.2	199.9	132.6	99.0	74.7	57.9	46.7	39.2	37.4
50°	4303.6	2962.5	285.8	175.6	112.1	84.1	61.6	44.8	37.4	29.9	28.0
52.5°	5013.4	3405.1	259.6	155.0	93.4	69.1	48.6	35.5	28.0	22.4	20.5
55°	5786.7	3958.0	235.4	130.8	78.5	56.0	39.2	28.0	20.5	14.9	13.1
57.5°	6390.0	4436.2	214.8	108.3	63.5	44.8	29.9	20.5	14.9	9.3	7.5
60°	7049.4	4772.4	188.7	85.9	52.3	33.6	22.4	14.9	11.2	5.6	5.6
62.5°	7729.3	5166.5	155.0	67.2	41.1	26.2	16.8	11.2	7.5	1.9	1.9
65°	8674.4	5474.7	119.5	52.3	31.8	18.7	13.1	9.3	3.7	0.0	0.0
67.5°	8941.5	5323.4	87.8	41.1	22.4	13.1	9.3	5.6	1.9	0.0	0.0
69°	8674.4	4794.8	76.6	35.5	18.7	11.2	7.5	3.7	1.9	0.0	0.0
70°	8186.9	4383.9	67.2	29.9	16.8	11.2	5.6	3.7	1.9	0.0	0.0
72.5°	6847.6	3362.2	52.3	22.4	13.1	9.3	5.6	3.7	0.0	0.0	0.0
75°	5022.7	2077.1	39.2	16.8	11.2	7.5	5.6	3.7	0.0	0.0	0.0
77.5°	2691.6	758.4	28.0	11.2	7.5	5.6	5.6	3.7	0.0	0.0	0.0
80°	737.8	224.1	20.5	7.5	5.6	3.7	3.7	1.9	0.0	0.0	0.0
82.5°	201.7	57.9	13.1	7.5	5.6	3.7	1.9	0.0	0.0	0.0	0.0
85°	108.3	22.4	7.5	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	56.0	7.5	5.6	3.7	3.7	1.9	0.0	0.0	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)