

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: P480282

Luminaire Tested: **IFLD-M-SA4A-830-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480282
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-830-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

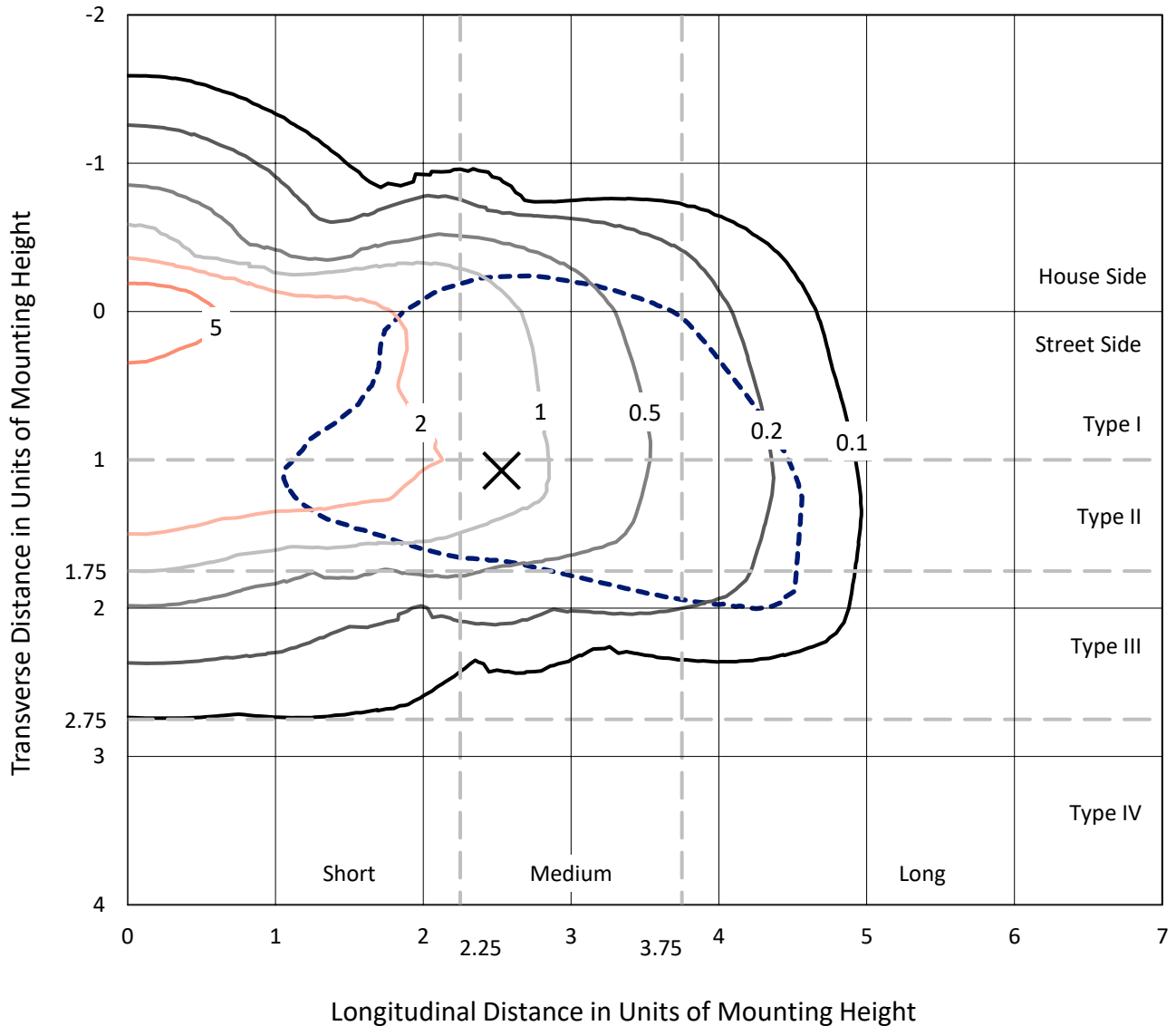
Lumens per Lamp: N/A
Luminaire Lumens: 14631 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

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

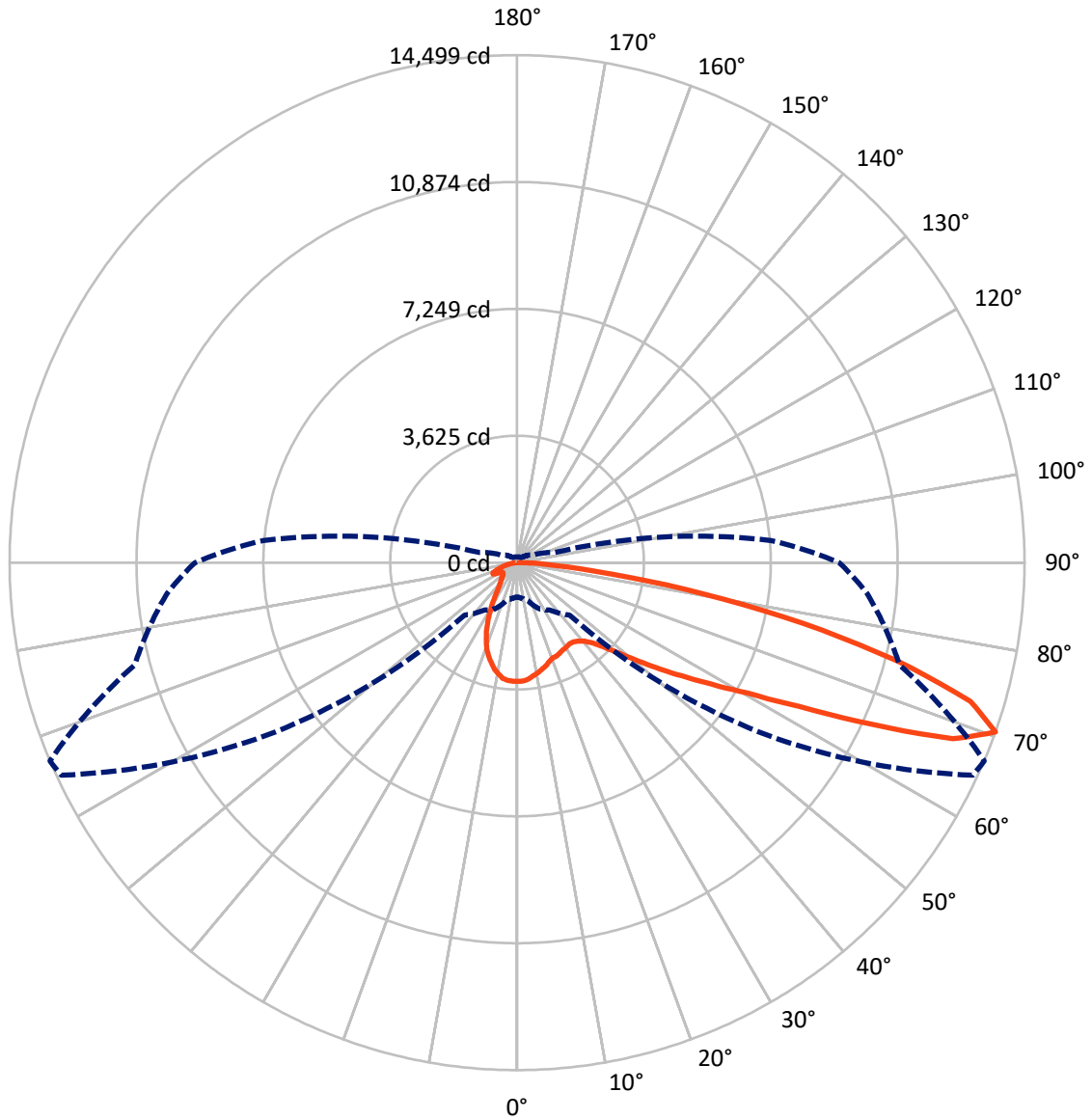
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 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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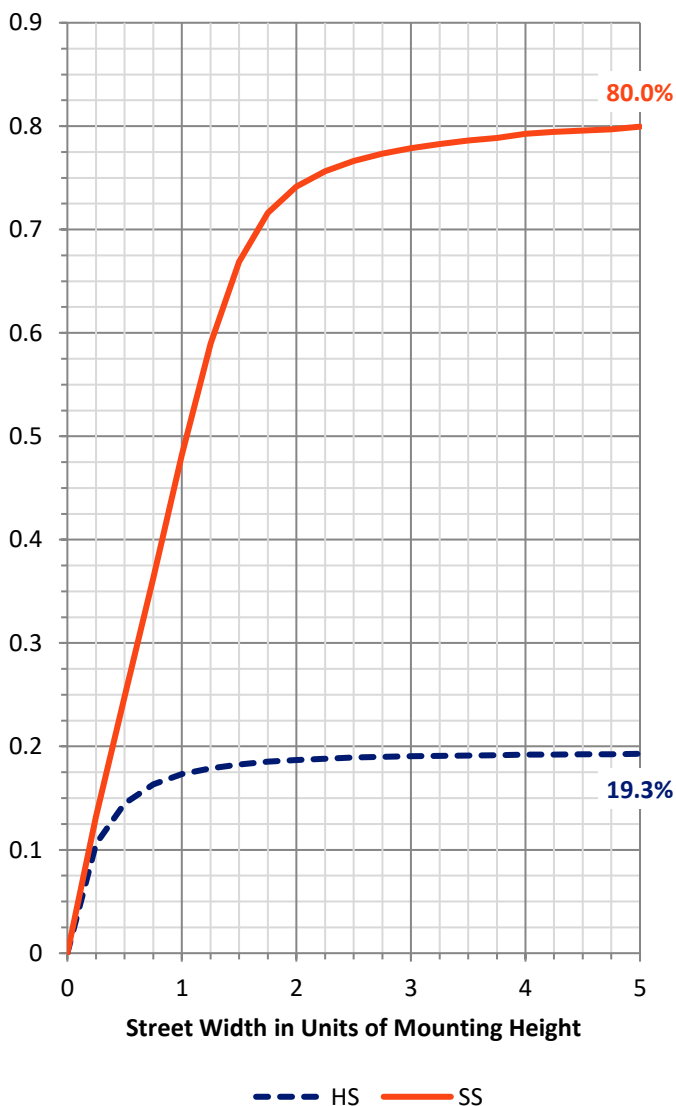
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2849.5	0.0	2849.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	11781.5	0.0	11781.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	14631.0	0.0	14631.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.5	2.0
10°-20°	707.8	4.8
20°-30°	955.8	6.5
30°-40°	1278.9	8.7
40°-50°	1880.7	12.9
50°-60°	2931.5	20.0
60°-70°	3611.1	24.7
70°-80°	2551.6	17.4
80°-90°	418.2	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°	14631.0	100.0
0°-180°	14631.0	100.0

Coefficient of Utilization

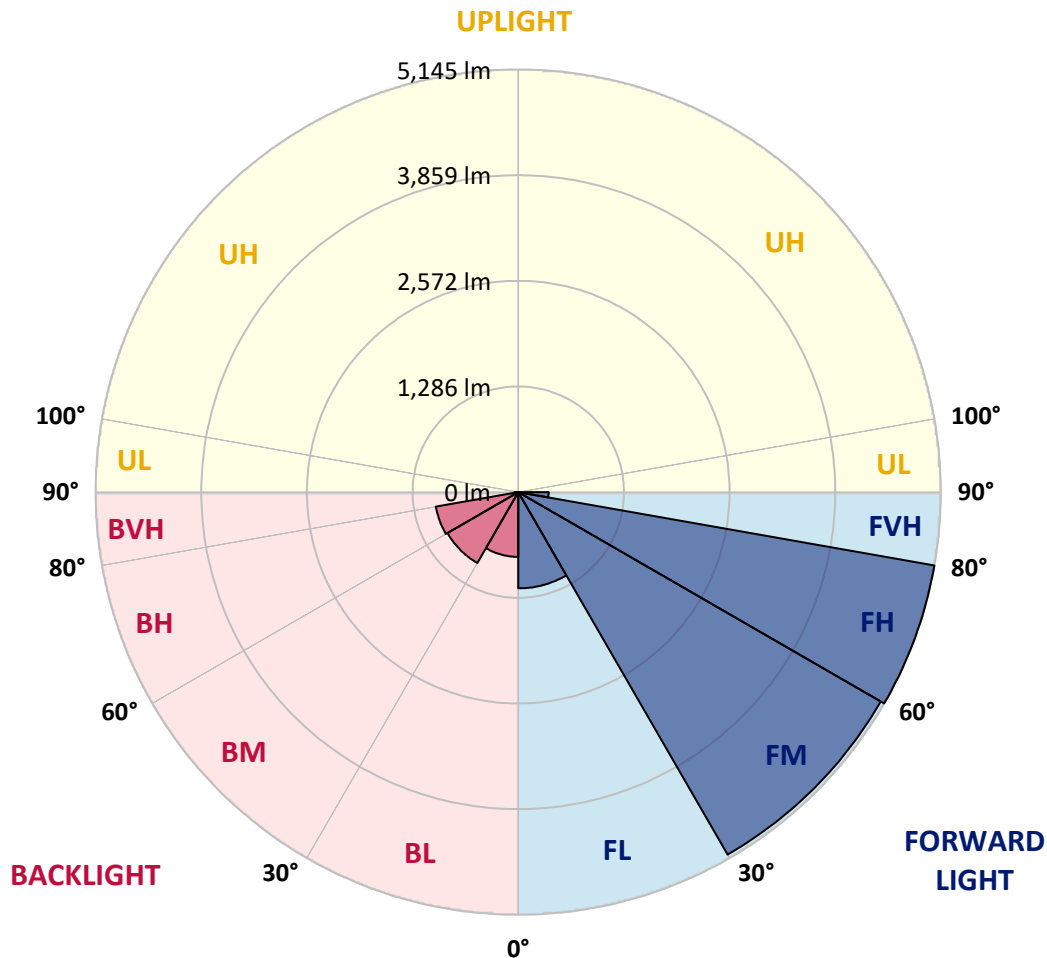


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1171.1	8.0			
FM (30°-60°)	5095.7	34.8			
FH (60°-80°)	5144.7	35.2			G3/7500
FVH (80°-90°)	370.0	2.5			G3/500
BL (0°-30°)	788.0	5.4	B2/1000		
BM (30°-60°)	995.4	6.8	B1/1000		
BH (60°-80°)	1017.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	48.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3387.0	3387.0	3387.0	3387.0	3387.0	3387.0	3387.0	3387.0	3387.0	3387.0	3387.0
2.5°	3153.8	3189.4	3202.4	3221.8	3272.0	3309.3	3332.0	3357.9	3388.6	3414.6	3430.8
5°	2933.5	2952.9	2983.7	3004.8	3067.9	3168.4	3236.4	3346.5	3343.3	3383.8	3445.3
7.5°	2719.7	2739.1	2753.7	2795.8	2886.5	2977.2	3101.9	3280.1	3267.2	3361.1	3456.7
10°	2586.8	2572.3	2577.1	2648.4	2719.7	2821.7	2978.8	3160.3	3207.2	3353.0	3489.1
12.5°	2462.1	2445.9	2484.8	2530.1	2617.6	2709.9	2897.8	3061.4	3132.7	3323.9	3503.7
15°	2384.4	2373.0	2421.6	2441.1	2544.7	2654.9	2787.7	2986.9	3064.7	3288.2	3481.0
17.5°	2340.6	2350.3	2368.2	2410.3	2476.7	2570.6	2716.4	2936.7	2970.7	3244.5	3476.1
20°	2348.7	2360.1	2361.7	2379.5	2424.9	2497.8	2646.8	2883.3	2905.9	3236.4	3489.1
22.5°	2413.5	2397.3	2403.8	2392.5	2405.4	2462.1	2593.3	2812.0	2899.5	3168.4	3461.5
25°	2510.7	2488.0	2484.8	2445.9	2421.6	2437.8	2583.6	2794.2	2850.9	3147.3	3459.9
27.5°	2682.4	2648.4	2648.4	2590.1	2491.3	2465.4	2556.1	2765.0	2815.2	3127.9	3422.7
30°	2847.6	2847.6	2849.3	2766.6	2656.5	2528.5	2567.4	2753.7	2786.1	3069.5	3372.5
32.5°	3048.5	3043.6	3035.5	2995.0	2825.0	2633.8	2622.5	2739.1	2755.3	3050.1	3357.9
35°	3244.5	3231.5	3294.7	3259.1	3085.7	2839.5	2679.2	2745.6	2781.2	3021.0	3312.5
37.5°	3391.9	3400.0	3531.2	3553.9	3404.8	3072.8	2839.5	2810.4	2844.4	3063.1	3312.5
40°	3583.0	3615.4	3738.5	3814.7	3724.0	3380.5	3093.8	2918.9	2943.2	3157.0	3383.8
42.5°	3834.1	3861.6	4018.8	4117.6	4091.6	3772.5	3344.9	3145.7	3126.2	3314.1	3490.7
45°	4166.2	4171.0	4329.8	4465.8	4519.3	4182.4	3743.4	3432.4	3416.2	3584.6	3686.7
47.5°	4561.4	4556.5	4655.3	4801.1	4945.3	4671.5	4201.8	3868.1	3809.8	3971.8	4012.3
50°	4943.7	4922.6	4945.3	5131.6	5408.6	5283.8	4759.0	4401.0	4342.7	4431.8	4501.5
52.5°	5154.2	5180.2	5118.6	5364.8	5901.0	6007.9	5497.6	5037.6	4987.4	5031.1	5152.6
55°	5006.8	5060.3	5019.8	5253.1	6116.4	6890.7	6453.3	5774.6	5709.8	5693.6	5892.9
57.5°	4380.0	4477.2	4485.3	4854.6	6041.9	7574.2	7797.8	6644.5	6547.3	6382.1	6587.8
60°	3362.7	3459.9	3534.4	3971.8	5403.7	7982.4	9356.0	7882.0	7561.3	7133.7	7256.8
62.5°	2356.8	2423.2	2497.8	2766.6	4166.2	7742.7	10703.7	9624.9	9033.7	7925.7	8079.6
65°	1717.0	1768.8	1845.0	2003.7	2559.3	6406.4	11329.0	11695.1	11134.6	8933.3	8913.8
67.5°	1292.6	1325.0	1425.4	1679.7	1773.7	3957.2	10681.0	13881.8	13428.3	10052.6	9584.4
70°	978.4	1005.9	1099.9	1448.1	1657.1	2122.0	8426.3	14369.4	14498.9	11307.9	10034.7
72.5°	673.8	704.6	809.9	1206.8	1577.7	1683.0	5288.7	13054.1	13544.9	11824.6	9552.0
75°	413.1	434.1	495.7	915.2	1566.4	1645.7	2910.8	10697.2	11217.2	10925.6	8356.6
77.5°	291.6	289.9	301.3	536.2	1357.4	1655.4	1794.8	7838.3	8343.7	8052.1	5671.0
80°	212.2	213.8	225.2	320.7	921.7	1683.0	1414.1	5249.8	5400.5	4198.6	2237.0
82.5°	128.0	134.4	162.0	217.1	554.0	1519.4	1307.2	2917.3	2729.4	1347.7	615.5
85°	68.0	68.0	95.6	137.7	294.8	1133.9	1258.6	1388.2	1163.0	417.9	228.4
87.5°	16.2	16.2	27.5	55.1	118.2	542.6	858.5	552.4	442.2	140.9	93.9
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°	3387.0	3387.0	3387.0	3387.0	3387.0	3387.0	3387.0	3387.0	3387.0	3387.0	3387.0
2.5°	3424.3	3404.8	3429.1	3380.5	3341.7	3343.3	3283.4	3280.1	3272.0	3229.9	3244.5
5°	3463.2	3447.0	3419.4	3366.0	3280.1	3194.3	3142.4	3076.0	3048.5	3033.9	3040.4
7.5°	3500.4	3471.3	3391.9	3317.4	3184.6	3022.6	2928.6	2839.5	2726.1	2713.2	2690.5
10°	3510.1	3448.6	3346.5	3187.8	3011.2	2831.4	2617.6	2452.4	2364.9	2296.9	2271.0
12.5°	3495.6	3469.6	3273.6	3069.5	2802.3	2520.4	2271.0	2037.7	1875.7	1791.5	1768.8
15°	3493.9	3448.6	3192.7	2889.7	2548.0	2180.3	1825.5	1545.3	1375.2	1305.6	1305.6
17.5°	3495.6	3387.0	3097.1	2708.3	2248.3	1751.0	1360.6	1130.6	1036.7	1027.0	1035.1
20°	3463.2	3341.7	2996.7	2494.5	1872.5	1315.3	988.1	894.1	894.1	907.1	912.0
22.5°	3434.0	3273.6	2837.9	2230.5	1490.2	952.5	803.4	775.9	806.7	829.3	839.1
25°	3393.5	3216.9	2675.9	1956.7	1133.9	767.8	698.1	704.6	733.8	774.3	771.0
27.5°	3335.2	3118.1	2483.2	1639.3	843.9	662.5	644.7	647.9	678.7	696.5	693.3
30°	3268.8	3017.7	2305.0	1323.4	669.0	607.4	605.8	613.9	618.8	628.5	626.9
32.5°	3184.6	2884.9	2115.5	1028.6	602.6	576.7	570.2	565.3	570.2	568.6	563.7
35°	3124.6	2813.6	1922.7	784.0	565.3	549.1	544.3	536.2	529.7	520.0	518.3
37.5°	3108.4	2742.3	1720.2	639.8	536.2	528.1	511.9	497.3	489.2	484.3	481.1
40°	3098.7	2695.4	1522.6	562.1	511.9	503.8	484.3	464.9	456.8	451.9	453.5
42.5°	3132.7	2669.5	1321.8	523.2	490.8	476.2	455.2	432.5	430.9	427.6	432.5
45°	3252.6	2701.8	1135.5	495.7	469.7	445.4	417.9	406.6	405.0	401.7	405.0
47.5°	3524.7	2782.8	976.7	477.8	447.1	426.0	396.9	380.7	379.0	377.4	377.4
50°	3900.5	3032.3	843.9	456.8	432.5	403.3	375.8	358.0	354.7	348.3	348.3
52.5°	4490.1	3451.8	764.6	445.4	406.6	382.3	353.1	333.7	325.6	319.1	319.1
55°	5154.2	3971.8	750.0	426.0	379.0	356.4	330.4	311.0	302.9	294.8	291.6
57.5°	5910.7	4660.2	853.6	413.1	359.6	330.4	301.3	283.5	277.0	268.9	265.6
60°	6615.3	5347.0	1176.0	393.6	341.8	306.1	277.0	259.2	251.1	243.0	243.0
62.5°	7430.1	6197.4	1721.9	393.6	325.6	280.2	251.1	238.1	233.3	225.2	223.5
65°	8393.9	7077.0	2120.3	417.9	320.7	257.6	226.8	213.8	209.0	204.1	202.5
67.5°	9127.6	7582.3	1823.9	482.7	341.8	238.1	202.5	194.4	191.1	186.3	183.0
70°	9205.4	7274.6	1099.9	521.6	362.8	218.7	181.4	173.3	173.3	168.5	165.2
72.5°	8507.3	6455.0	740.3	464.9	328.8	196.0	160.4	153.9	150.6	147.4	145.8
75°	7119.1	5475.0	584.8	370.9	252.7	162.0	139.3	132.8	128.0	126.3	123.1
77.5°	4781.7	3558.7	432.5	289.9	186.3	131.2	116.6	110.1	105.3	103.7	98.8
80°	1836.9	1355.8	278.6	210.6	131.2	103.7	92.3	85.9	82.6	77.8	74.5
82.5°	541.0	439.0	155.5	129.6	84.2	71.3	66.4	61.6	56.7	51.8	50.2
85°	223.5	200.9	95.6	68.0	51.8	42.1	38.9	34.0	29.2	25.9	22.7
87.5°	103.7	85.9	43.7	25.9	17.8	9.7	4.9	1.6	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)