

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: P480283

Luminaire Tested: **IFLD-M-SA4B-830-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480283
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-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

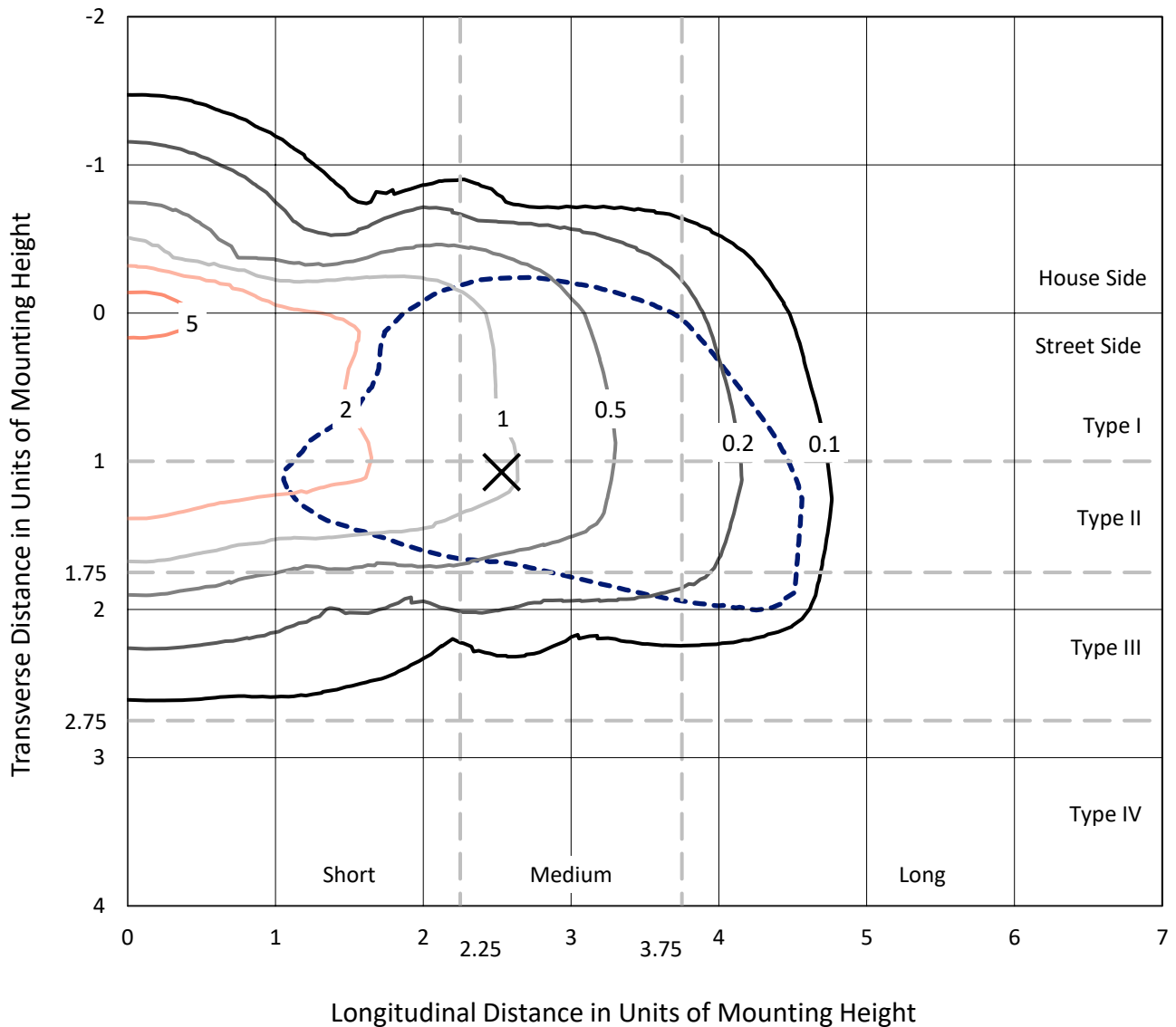
Lumens per Lamp: N/A
Luminaire Lumens: 18094.8 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 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

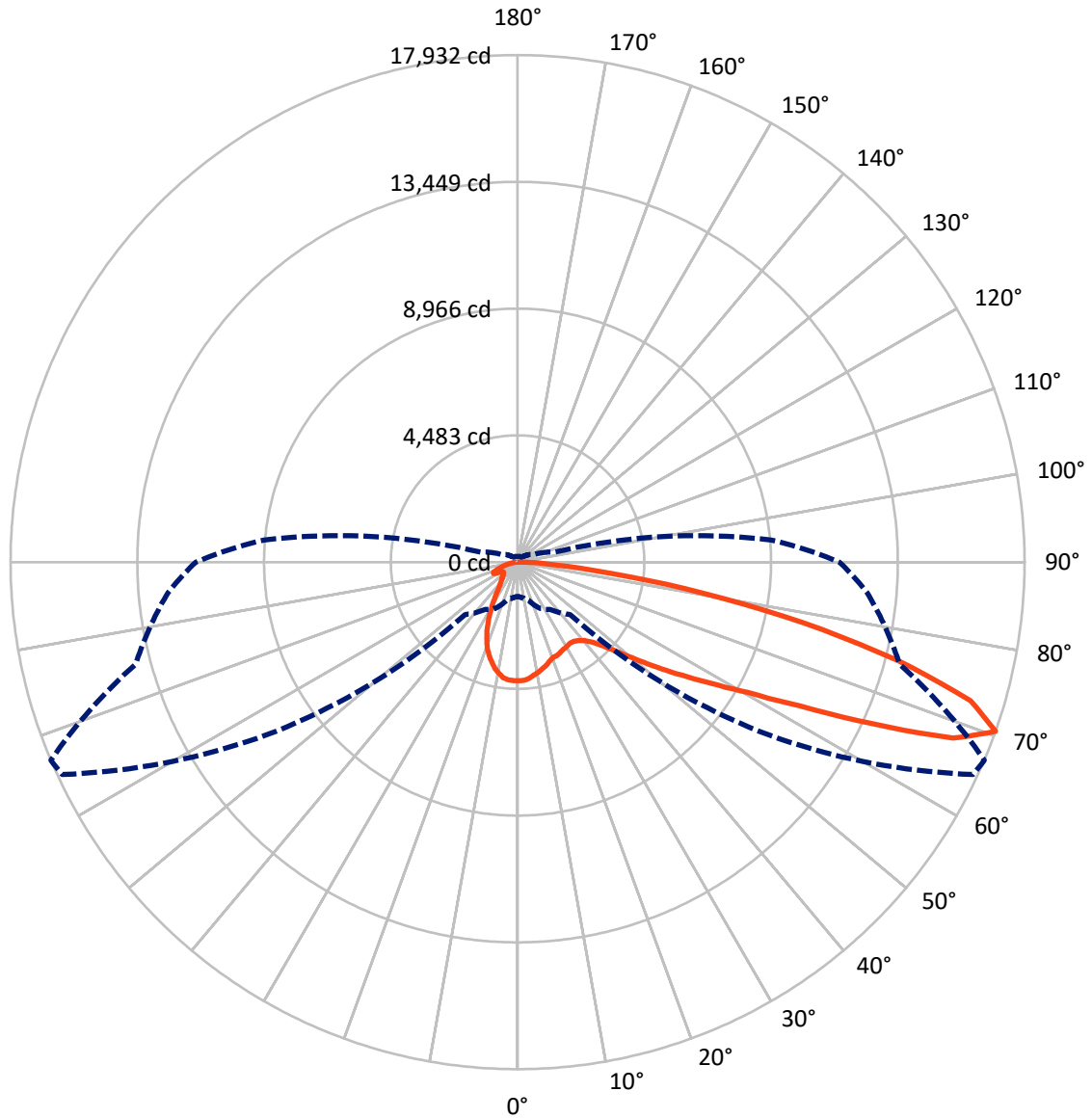
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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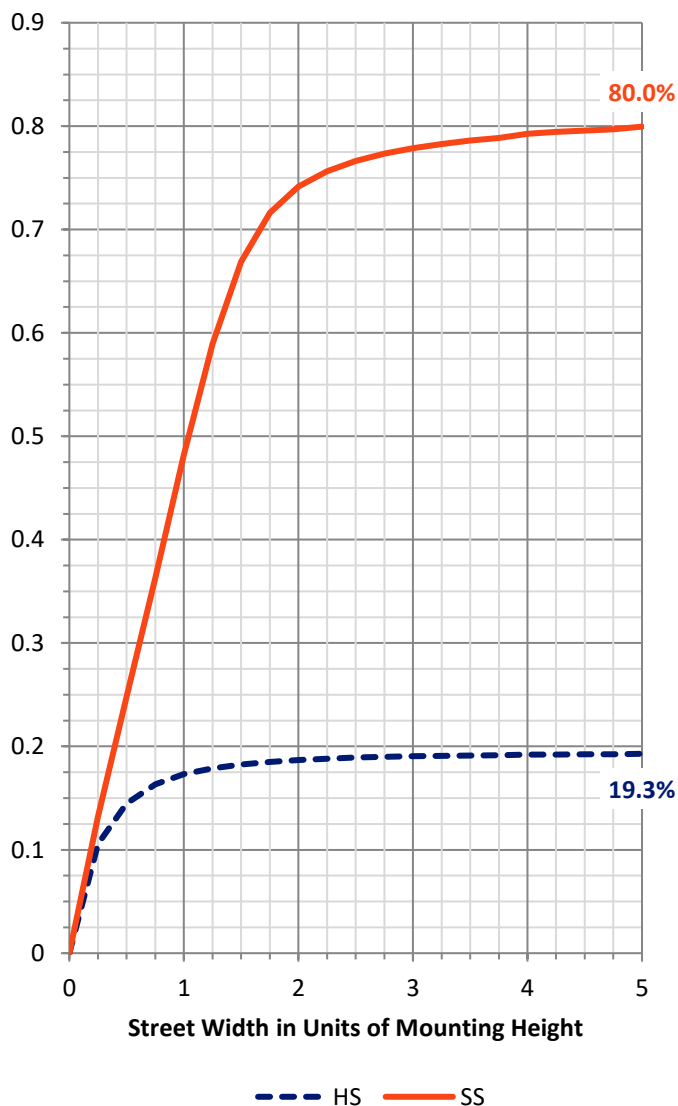
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3524.1	0.0	3524.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	14570.7	0.0	14570.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	18094.8	0.0	18094.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.5	2.0
10°-20°	875.3	4.8
20°-30°	1182.1	6.5
30°-40°	1581.7	8.7
40°-50°	2325.9	12.9
50°-60°	3625.5	20.0
60°-70°	4466.0	24.7
70°-80°	3155.6	17.4
80°-90°	517.2	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°	18094.8	100.0
0°-180°	18094.8	100.0

Coefficient of Utilization



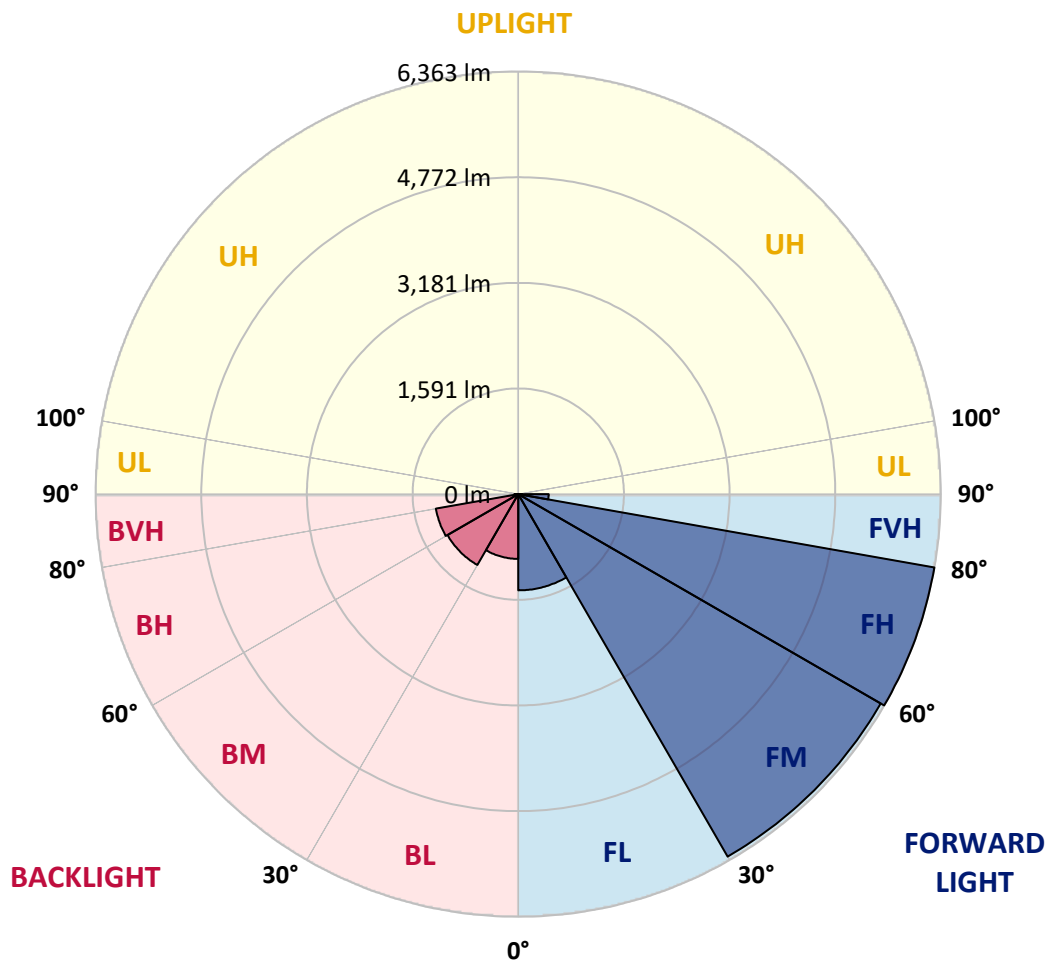
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1448.4	8.0			
FM (30°-60°)	6302.0	34.8			
FH (60°-80°)	6362.7	35.2			G3/7500
FVH (80°-90°)	457.6	2.5			G3/500
BL (0°-30°)	974.5	5.4	B2/1000		
BM (30°-60°)	1231.1	6.8	B2/2500		
BH (60°-80°)	1258.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	59.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4188.9	4188.9	4188.9	4188.9	4188.9	4188.9	4188.9	4188.9	4188.9	4188.9	4188.9
2.5°	3900.4	3944.5	3960.5	3984.6	4046.7	4092.7	4120.8	4152.8	4190.9	4223.0	4243.0
5°	3628.0	3652.0	3690.1	3716.1	3794.2	3918.5	4002.6	4138.8	4134.8	4184.9	4261.0
7.5°	3363.5	3387.6	3405.6	3457.7	3569.9	3682.1	3836.3	4056.7	4040.7	4156.8	4275.0
10°	3199.3	3181.2	3187.2	3275.4	3363.5	3489.7	3684.1	3908.4	3966.5	4146.8	4315.1
12.5°	3045.0	3025.0	3073.1	3129.2	3237.3	3351.5	3583.9	3786.2	3874.4	4110.8	4333.1
15°	2948.9	2934.8	2994.9	3019.0	3147.2	3283.4	3447.7	3694.1	3790.2	4066.7	4305.1
17.5°	2894.8	2906.8	2928.8	2980.9	3063.0	3179.2	3359.5	3632.0	3674.0	4012.6	4299.1
20°	2904.8	2918.8	2920.8	2942.8	2998.9	3089.1	3273.4	3565.9	3593.9	4002.6	4315.1
22.5°	2984.9	2964.9	2972.9	2958.9	2974.9	3045.0	3207.3	3477.7	3585.9	3918.5	4281.0
25°	3105.1	3077.1	3073.1	3025.0	2994.9	3015.0	3195.3	3455.7	3525.8	3892.4	4279.0
27.5°	3317.5	3275.4	3275.4	3203.3	3081.1	3049.0	3161.2	3419.6	3481.7	3868.4	4233.0
30°	3521.8	3521.8	3523.8	3421.6	3285.4	3127.1	3175.2	3405.6	3445.7	3796.2	4170.9
32.5°	3770.2	3764.2	3754.2	3704.1	3493.8	3257.4	3243.3	3387.6	3407.6	3772.2	4152.8
35°	4012.6	3996.6	4074.7	4030.6	3816.3	3511.8	3313.5	3395.6	3439.7	3736.2	4096.7
37.5°	4194.9	4204.9	4367.2	4395.2	4210.9	3800.3	3511.8	3475.7	3517.8	3788.2	4096.7
40°	4431.3	4471.4	4623.6	4717.8	4605.6	4180.9	3826.3	3609.9	3640.0	3904.4	4184.9
42.5°	4741.8	4775.9	4970.2	5092.4	5060.3	4665.7	4136.8	3890.4	3866.4	4098.7	4317.1
45°	5152.5	5158.5	5354.8	5523.1	5589.2	5172.5	4629.6	4245.0	4225.0	4433.3	4559.5
47.5°	5641.3	5635.3	5757.5	5937.8	6116.1	5777.5	5196.6	4783.9	4711.8	4912.1	4962.2
50°	6114.1	6088.0	6116.1	6346.4	6689.0	6534.8	5885.7	5443.0	5370.8	5481.0	5567.2
52.5°	6374.5	6406.5	6330.4	6634.9	7298.0	7430.2	6799.2	6230.3	6168.2	6222.2	6372.5
55°	6192.2	6258.3	6208.2	6496.7	7564.5	8522.0	7981.1	7141.8	7061.6	7041.6	7288.0
57.5°	5416.9	5537.1	5547.1	6003.9	7472.3	9367.4	9643.9	8217.5	8097.3	7893.0	8147.4
60°	4158.8	4279.0	4371.2	4912.1	6683.0	9872.3	11571.0	9748.0	9351.4	8822.5	8974.8
62.5°	2914.8	2996.9	3089.1	3421.6	5152.5	9575.8	13237.8	11903.6	11172.4	9802.1	9992.4
65°	2123.5	2187.6	2281.8	2478.1	3165.2	7923.0	14011.1	14463.8	13770.7	11048.2	11024.1
67.5°	1598.6	1638.7	1762.9	2077.4	2193.6	4894.1	13209.7	17168.3	16607.3	12432.5	11853.5
70°	1210.0	1244.0	1360.2	1790.9	2049.4	2624.3	10421.2	17771.3	17931.5	13985.0	12410.4
72.5°	833.4	871.4	1001.6	1492.5	1951.2	2081.4	6540.8	16144.6	16751.6	14624.1	11813.4
75°	510.8	536.9	613.0	1131.9	1937.2	2035.4	3599.9	13229.8	13872.8	13512.2	10335.0
77.5°	360.6	358.6	372.6	663.1	1678.8	2047.4	2219.7	9694.0	10319.0	9958.4	7013.5
80°	262.4	264.4	278.5	396.7	1139.9	2081.4	1748.9	6492.7	6679.0	5192.5	2766.6
82.5°	158.3	166.3	200.3	268.4	685.1	1879.1	1616.7	3607.9	3375.6	1666.7	761.3
85°	84.1	84.1	118.2	170.3	364.6	1402.3	1556.6	1716.8	1438.4	516.9	282.5
87.5°	20.0	20.0	34.1	68.1	146.2	671.1	1061.7	683.1	546.9	174.3	116.2
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°	4188.9	4188.9	4188.9	4188.9	4188.9	4188.9	4188.9	4188.9	4188.9	4188.9	4188.9
2.5°	4235.0	4210.9	4241.0	4180.9	4132.8	4134.8	4060.7	4056.7	4046.7	3994.6	4012.6
5°	4283.1	4263.0	4229.0	4162.9	4056.7	3950.5	3886.4	3804.3	3770.2	3752.2	3760.2
7.5°	4329.1	4293.1	4194.9	4102.8	3938.5	3738.2	3622.0	3511.8	3371.5	3355.5	3327.5
10°	4341.1	4265.0	4138.8	3942.5	3724.1	3501.8	3237.3	3033.0	2924.8	2840.7	2808.6
12.5°	4323.1	4291.1	4048.7	3796.2	3465.7	3117.1	2808.6	2520.1	2319.8	2215.6	2187.6
15°	4321.1	4265.0	3948.5	3573.9	3151.2	2696.4	2257.7	1911.1	1700.8	1614.7	1614.7
17.5°	4323.1	4188.9	3830.3	3349.5	2780.6	2165.6	1682.8	1398.3	1282.1	1270.1	1280.1
20°	4283.1	4132.8	3706.1	3085.1	2315.8	1626.7	1222.0	1105.8	1105.8	1121.8	1127.9
22.5°	4247.0	4048.7	3509.8	2758.5	1843.0	1177.9	993.6	959.6	997.6	1025.7	1037.7
25°	4196.9	3978.5	3309.4	2420.0	1402.3	949.6	863.4	871.4	907.5	957.6	953.6
27.5°	4124.8	3856.3	3071.1	2027.3	1043.7	819.3	797.3	801.3	839.4	861.4	857.4
30°	4042.7	3732.1	2850.7	1636.7	827.4	751.2	749.2	759.2	765.3	777.3	775.3
32.5°	3938.5	3567.9	2616.3	1272.1	745.2	713.2	705.2	699.2	705.2	703.2	697.1
35°	3864.4	3479.7	2377.9	969.6	699.2	679.1	673.1	663.1	655.1	643.1	641.1
37.5°	3844.3	3391.6	2127.5	791.3	663.1	653.1	633.0	615.0	605.0	599.0	595.0
40°	3832.3	3333.5	1883.1	695.1	633.0	623.0	599.0	574.9	564.9	558.9	560.9
42.5°	3874.4	3301.4	1634.7	647.1	607.0	589.0	562.9	534.9	532.9	528.9	534.9
45°	4022.6	3341.5	1404.3	613.0	581.0	550.9	516.9	502.8	500.8	496.8	500.8
47.5°	4359.2	3441.7	1208.0	591.0	552.9	526.9	490.8	470.8	468.8	466.8	466.8
50°	4823.9	3750.2	1043.7	564.9	534.9	498.8	464.8	442.7	438.7	430.7	430.7
52.5°	5553.1	4269.0	945.6	550.9	502.8	472.8	436.7	412.7	402.7	394.6	394.6
55°	6374.5	4912.1	927.5	526.9	468.8	440.7	408.7	384.6	374.6	364.6	360.6
57.5°	7310.0	5763.5	1055.7	510.8	444.7	408.7	372.6	350.6	342.6	332.5	328.5
60°	8181.5	6612.9	1454.4	486.8	422.7	378.6	342.6	320.5	310.5	300.5	300.5
62.5°	9189.1	7664.6	2129.5	486.8	402.7	346.6	310.5	294.5	288.5	278.5	276.5
65°	10381.1	8752.4	2622.3	516.9	396.7	318.5	280.5	264.4	258.4	252.4	250.4
67.5°	11288.6	9377.4	2255.7	597.0	422.7	294.5	250.4	240.4	236.4	230.4	226.4
70°	11384.7	8996.8	1360.2	645.1	448.7	270.4	224.4	214.4	214.4	208.3	204.3
72.5°	10521.3	7983.1	915.5	574.9	406.7	242.4	198.3	190.3	186.3	182.3	180.3
75°	8804.5	6771.1	723.2	458.8	312.5	200.3	172.3	164.3	158.3	156.3	152.3
77.5°	5913.7	4401.2	534.9	358.6	230.4	162.3	144.2	136.2	130.2	128.2	122.2
80°	2271.7	1676.8	344.6	260.4	162.3	128.2	114.2	106.2	102.2	96.2	92.2
82.5°	669.1	542.9	192.3	160.3	104.2	88.1	82.1	76.1	70.1	64.1	62.1
85°	276.5	248.4	118.2	84.1	64.1	52.1	48.1	42.1	36.1	32.1	28.0
87.5°	128.2	106.2	54.1	32.1	22.0	12.0	6.0	2.0	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)