

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: P480048

Luminaire Tested: **IFLD-M-SA4A-730-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480048
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-730-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

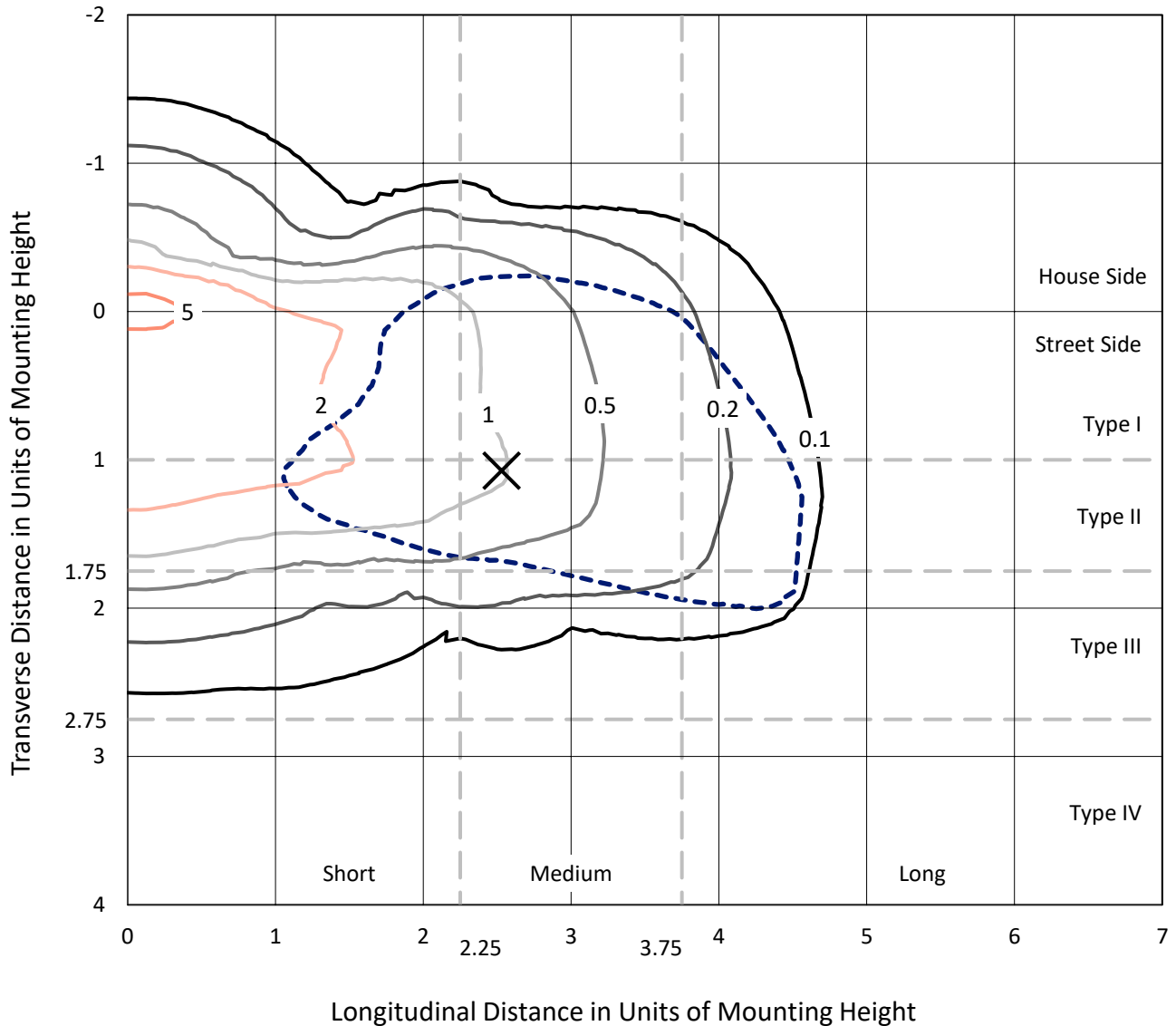
Lumens per Lamp: N/A
Luminaire Lumens: 16766.9 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

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

REPORT NUMBER: P480048
 CATALOG NUMBER: IFLD-M-SA4A-730-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

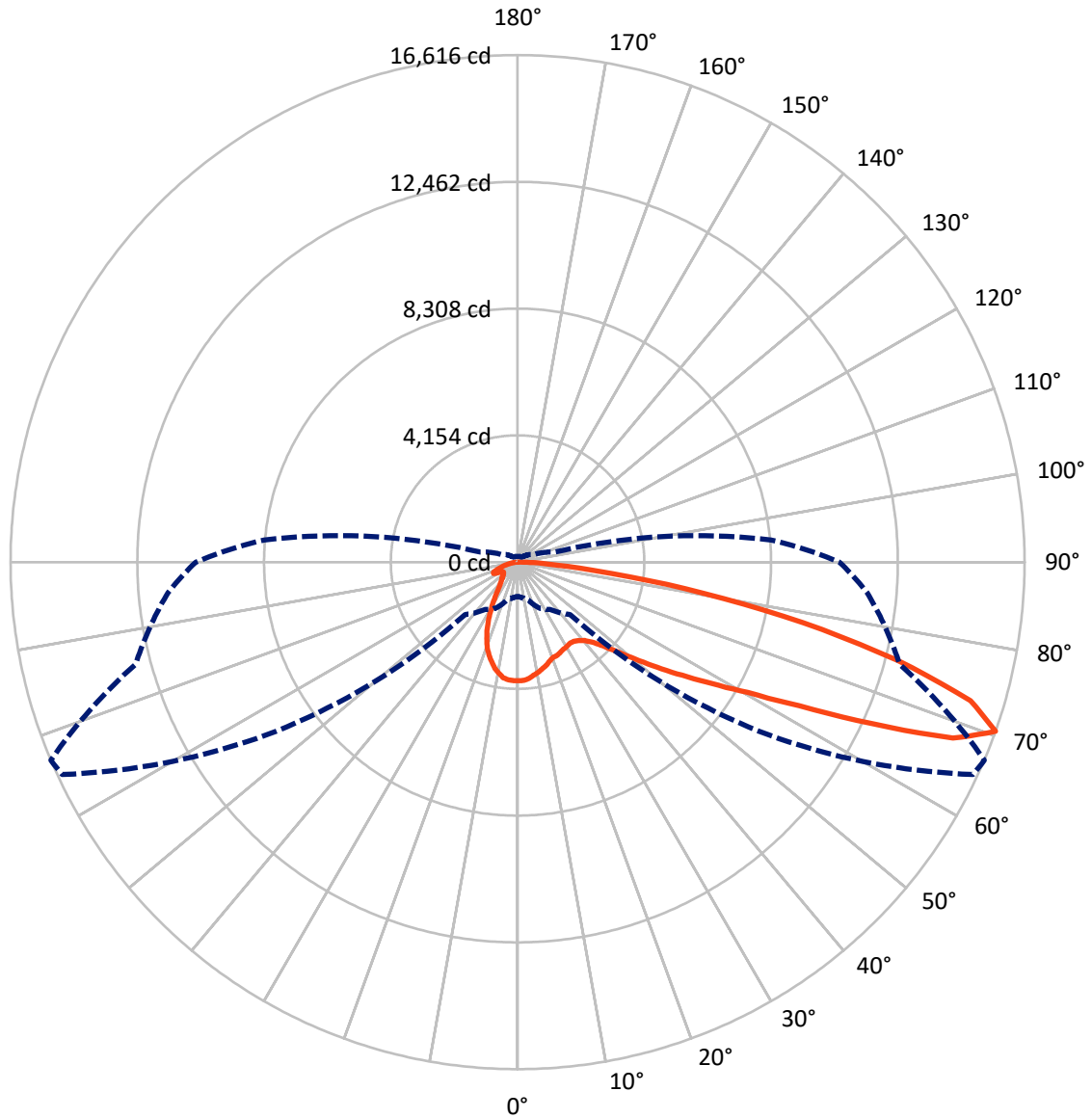
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P480048
CATALOG NUMBER: IFLD-M-SA4A-730-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P480048

CATALOG NUMBER: IFLD-M-SA4A-730-U-SL2

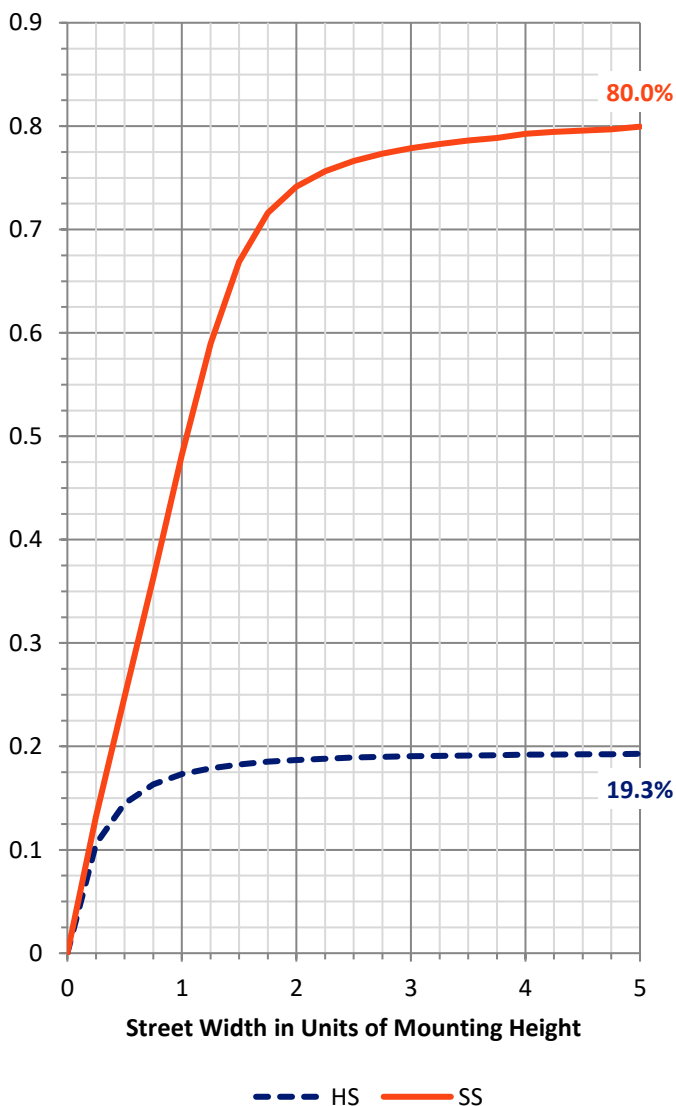
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3265.5	0.0	3265.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	13501.4	0.0	13501.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	16766.9	0.0	16766.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.7	2.0
10°-20°	811.1	4.8
20°-30°	1095.3	6.5
30°-40°	1465.6	8.7
40°-50°	2155.2	12.9
50°-60°	3359.4	20.0
60°-70°	4138.2	24.7
70°-80°	2924.0	17.4
80°-90°	479.3	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°	16766.9	100.0
0°-180°	16766.9	100.0

Coefficient of Utilization



REPORT NUMBER: P480048

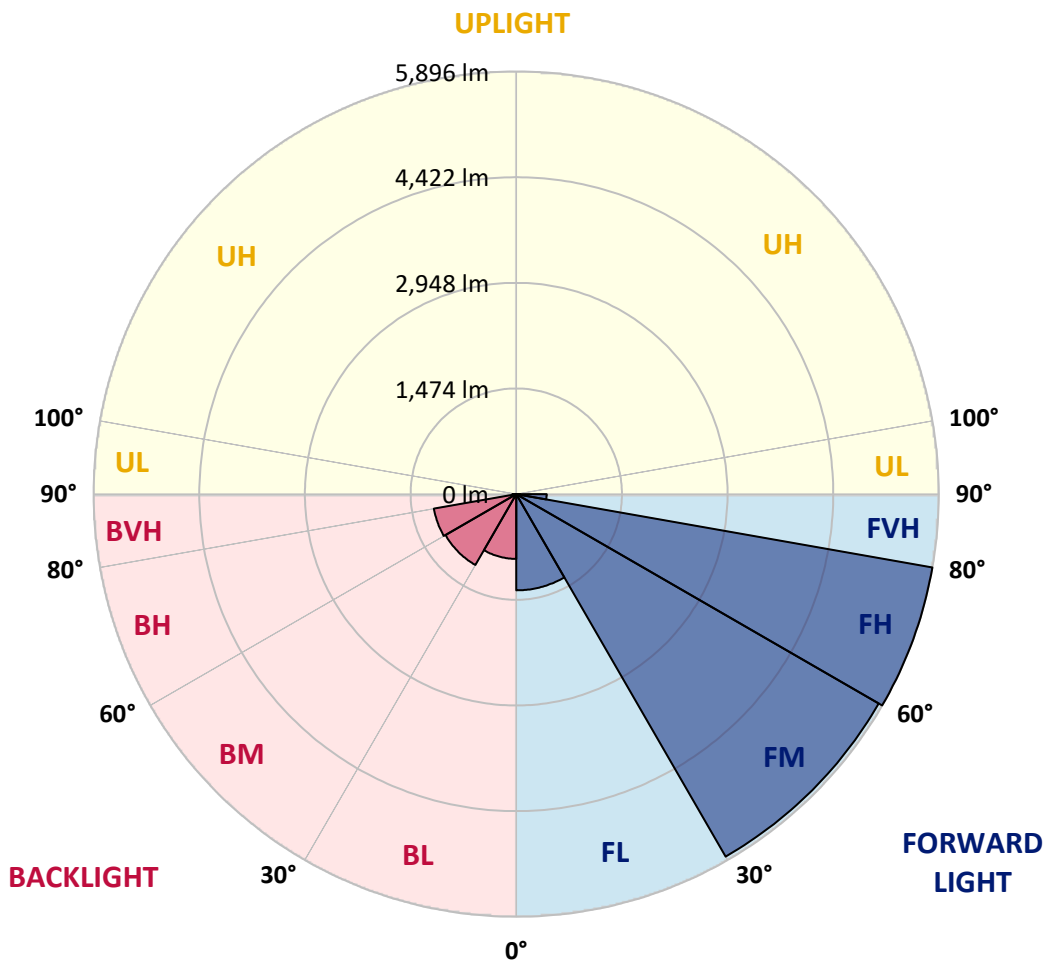
CATALOG NUMBER: IFLD-M-SA4A-730-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1342.1	8.0			
FM (30°-60°)	5839.6	34.8			
FH (60°-80°)	5895.8	35.2			G3/7500
FVH (80°-90°)	424.0	2.5			G3/500
BL (0°-30°)	903.0	5.4	B2/1000		
BM (30°-60°)	1140.7	6.8	B2/2500		
BH (60°-80°)	1166.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	55.3	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





REPORT NUMBER: P480048

CATALOG NUMBER: IFLD-M-SA4A-730-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5
2.5°	3614.2	3655.0	3669.9	3692.1	3749.7	3792.4	3818.4	3848.1	3883.3	3913.0	3931.6
5°	3361.7	3384.0	3419.3	3443.4	3515.8	3630.9	3708.9	3835.1	3831.4	3877.8	3948.3
7.5°	3116.7	3139.0	3155.7	3203.9	3307.9	3411.8	3554.8	3759.0	3744.1	3851.8	3961.3
10°	2964.5	2947.8	2953.3	3035.0	3116.7	3233.6	3413.7	3621.6	3675.4	3842.5	3998.4
12.5°	2821.5	2803.0	2847.5	2899.5	2999.8	3105.6	3320.9	3508.4	3590.0	3809.1	4015.1
15°	2732.4	2719.5	2775.1	2797.4	2916.2	3042.4	3194.7	3423.0	3512.1	3768.3	3989.2
17.5°	2682.3	2693.5	2713.9	2762.1	2838.3	2945.9	3113.0	3365.4	3404.4	3718.1	3983.6
20°	2691.6	2704.6	2706.5	2726.9	2778.9	2862.4	3033.2	3304.2	3330.2	3708.9	3998.4
22.5°	2765.9	2747.3	2754.7	2741.7	2756.6	2821.5	2971.9	3222.5	3322.7	3630.9	3966.9
25°	2877.2	2851.2	2847.5	2803.0	2775.1	2793.7	2960.8	3202.1	3267.1	3606.8	3965.0
27.5°	3074.0	3035.0	3035.0	2968.2	2855.0	2825.3	2929.2	3168.7	3226.2	3584.5	3922.3
30°	3263.3	3263.3	3265.2	3170.5	3044.3	2897.7	2942.2	3155.7	3192.8	3517.7	3864.8
32.5°	3493.5	3488.0	3478.7	3432.3	3237.4	3018.3	3005.3	3139.0	3157.5	3495.4	3848.1
35°	3718.1	3703.3	3775.7	3734.8	3536.2	3254.1	3070.3	3146.4	3187.2	3462.0	3796.1
37.5°	3887.1	3896.3	4046.7	4072.7	3901.9	3521.4	3254.1	3220.6	3259.6	3510.2	3796.1
40°	4106.1	4143.2	4284.3	4371.5	4267.6	3874.1	3545.5	3345.0	3372.9	3617.9	3877.8
42.5°	4393.8	4425.4	4605.4	4718.7	4689.0	4323.3	3833.2	3604.9	3582.6	3798.0	4000.3
45°	4774.4	4779.9	4961.8	5117.8	5179.0	4792.9	4289.9	3933.5	3914.9	4108.0	4224.9
47.5°	5227.3	5221.7	5335.0	5502.0	5667.2	5353.5	4815.2	4432.8	4366.0	4551.6	4598.0
50°	5665.4	5641.2	5667.2	5880.7	6198.1	6055.2	5453.8	5043.5	4976.7	5078.8	5158.6
52.5°	5906.7	5936.4	5865.9	6148.0	6762.4	6885.0	6300.2	5773.0	5715.5	5765.6	5904.8
55°	5737.8	5799.0	5752.6	6019.9	7009.3	7896.6	7395.4	6617.6	6543.4	6524.8	6753.2
57.5°	5019.4	5130.8	5140.0	5563.3	6923.9	8680.0	8936.1	7614.5	7503.1	7313.8	7549.5
60°	3853.6	3965.0	4050.4	4551.6	6192.6	9147.8	10721.9	9032.7	8665.1	8175.1	8316.1
62.5°	2700.9	2777.0	2862.4	3170.5	4774.4	8873.0	12266.3	11030.0	10352.5	9082.8	9259.1
65°	1967.7	2027.1	2114.3	2296.2	2932.9	7341.6	12982.8	13402.4	12760.1	10237.4	10215.1
67.5°	1481.3	1518.4	1633.5	1925.0	2032.6	4534.9	12240.3	15908.3	15388.6	11520.1	10983.6
70°	1121.2	1152.8	1260.4	1659.5	1899.0	2431.7	9656.4	16467.1	16615.6	12958.7	11499.7
72.5°	772.2	807.5	928.1	1382.9	1808.0	1928.7	6060.8	14959.8	15522.2	13550.9	10946.5
75°	473.4	497.5	568.0	1048.8	1795.0	1886.0	3335.7	12258.9	12854.8	12520.6	9576.6
77.5°	334.1	332.3	345.3	614.4	1555.6	1897.1	2056.8	8982.5	9561.7	9227.6	6498.8
80°	243.2	245.0	258.0	367.5	1056.2	1928.7	1620.5	6016.2	6188.8	4811.5	2563.5
82.5°	146.6	154.1	185.6	248.7	634.8	1741.2	1498.0	3343.2	3127.8	1544.4	705.4
85°	78.0	78.0	109.5	157.8	337.8	1299.4	1442.3	1590.8	1332.8	478.9	261.7
87.5°	18.6	18.6	31.6	63.1	135.5	621.9	983.8	633.0	506.8	161.5	107.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480048
 CATALOG NUMBER: IFLD-M-SA4A-730-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5
2.5°	3924.2	3901.9	3929.7	3874.1	3829.5	3831.4	3762.7	3759.0	3749.7	3701.4	3718.1
5°	3968.7	3950.2	3918.6	3857.4	3759.0	3660.6	3601.2	3525.1	3493.5	3476.8	3484.2
7.5°	4011.4	3978.0	3887.1	3801.7	3649.5	3463.8	3356.2	3254.1	3124.1	3109.3	3083.3
10°	4022.6	3952.0	3835.1	3653.2	3450.8	3244.8	2999.8	2810.4	2710.2	2632.2	2602.5
12.5°	4005.9	3976.2	3751.5	3517.7	3211.4	2888.4	2602.5	2335.2	2149.6	2053.0	2027.1
15°	4004.0	3952.0	3658.7	3311.6	2919.9	2498.6	2092.0	1770.9	1576.0	1496.2	1496.2
17.5°	4005.9	3881.5	3549.2	3103.7	2576.5	2006.6	1559.3	1295.7	1188.0	1176.9	1186.2
20°	3968.7	3829.5	3434.1	2858.7	2145.9	1507.3	1132.3	1024.7	1024.7	1039.5	1045.1
22.5°	3935.3	3751.5	3252.2	2556.1	1707.8	1091.5	920.7	889.2	924.4	950.4	961.6
25°	3888.9	3686.6	3066.6	2242.4	1299.4	879.9	800.1	807.5	840.9	887.3	883.6
27.5°	3822.1	3573.3	2845.7	1878.6	967.1	759.2	738.8	742.5	777.8	798.2	794.5
30°	3746.0	3458.3	2641.5	1516.6	766.6	696.1	694.2	703.5	709.1	720.2	718.4
32.5°	3649.5	3306.0	2424.3	1178.7	690.5	660.8	653.4	647.8	653.4	651.6	646.0
35°	3580.8	3224.4	2203.4	898.4	647.8	629.3	623.7	614.4	607.0	595.9	594.0
37.5°	3562.2	3142.7	1971.4	733.2	614.4	605.1	586.6	569.9	560.6	555.0	551.3
40°	3551.1	3088.9	1744.9	644.1	586.6	577.3	555.0	532.8	523.5	517.9	519.8
42.5°	3590.0	3059.2	1514.7	599.6	562.5	545.7	521.6	495.6	493.8	490.1	495.6
45°	3727.4	3096.3	1301.3	568.0	538.3	510.5	478.9	465.9	464.1	460.4	464.1
47.5°	4039.3	3189.1	1119.3	547.6	512.3	488.2	454.8	436.2	434.4	432.5	432.5
50°	4469.9	3475.0	967.1	523.5	495.6	462.2	430.7	410.2	406.5	399.1	399.1
52.5°	5145.6	3955.7	876.2	510.5	465.9	438.1	404.7	382.4	373.1	365.7	365.7
55°	5906.7	4551.6	859.5	488.2	434.4	408.4	378.7	356.4	347.1	337.8	334.1
57.5°	6773.6	5340.5	978.3	473.4	412.1	378.7	345.3	324.8	317.4	308.1	304.4
60°	7581.1	6127.6	1347.7	451.1	391.7	350.8	317.4	297.0	287.7	278.4	278.4
62.5°	8514.8	7102.1	1973.2	451.1	373.1	321.1	287.7	272.9	267.3	258.0	256.2
65°	9619.3	8110.1	2429.9	478.9	367.5	295.1	259.9	245.0	239.5	233.9	232.0
67.5°	10460.2	8689.3	2090.2	553.2	391.7	272.9	232.0	222.8	219.0	213.5	209.8
70°	10549.3	8336.6	1260.4	597.7	415.8	250.6	207.9	198.6	198.6	193.1	189.3
72.5°	9749.2	7397.3	848.3	532.8	376.8	224.6	183.8	176.3	172.6	168.9	167.1
75°	8158.4	6274.2	670.1	425.1	289.6	185.6	159.6	152.2	146.6	144.8	141.1
77.5°	5479.7	4078.3	495.6	332.3	213.5	150.4	133.7	126.2	120.7	118.8	113.2
80°	2105.0	1553.7	319.3	241.3	150.4	118.8	105.8	98.4	94.7	89.1	85.4
82.5°	620.0	503.1	178.2	148.5	96.5	81.7	76.1	70.5	65.0	59.4	57.5
85°	256.2	230.2	109.5	78.0	59.4	48.3	44.6	39.0	33.4	29.7	26.0
87.5°	118.8	98.4	50.1	29.7	20.4	11.1	5.6	1.9	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)