

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: P480009

Luminaire Tested: **IFLD-M-SA4A-727-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480009
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-727-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

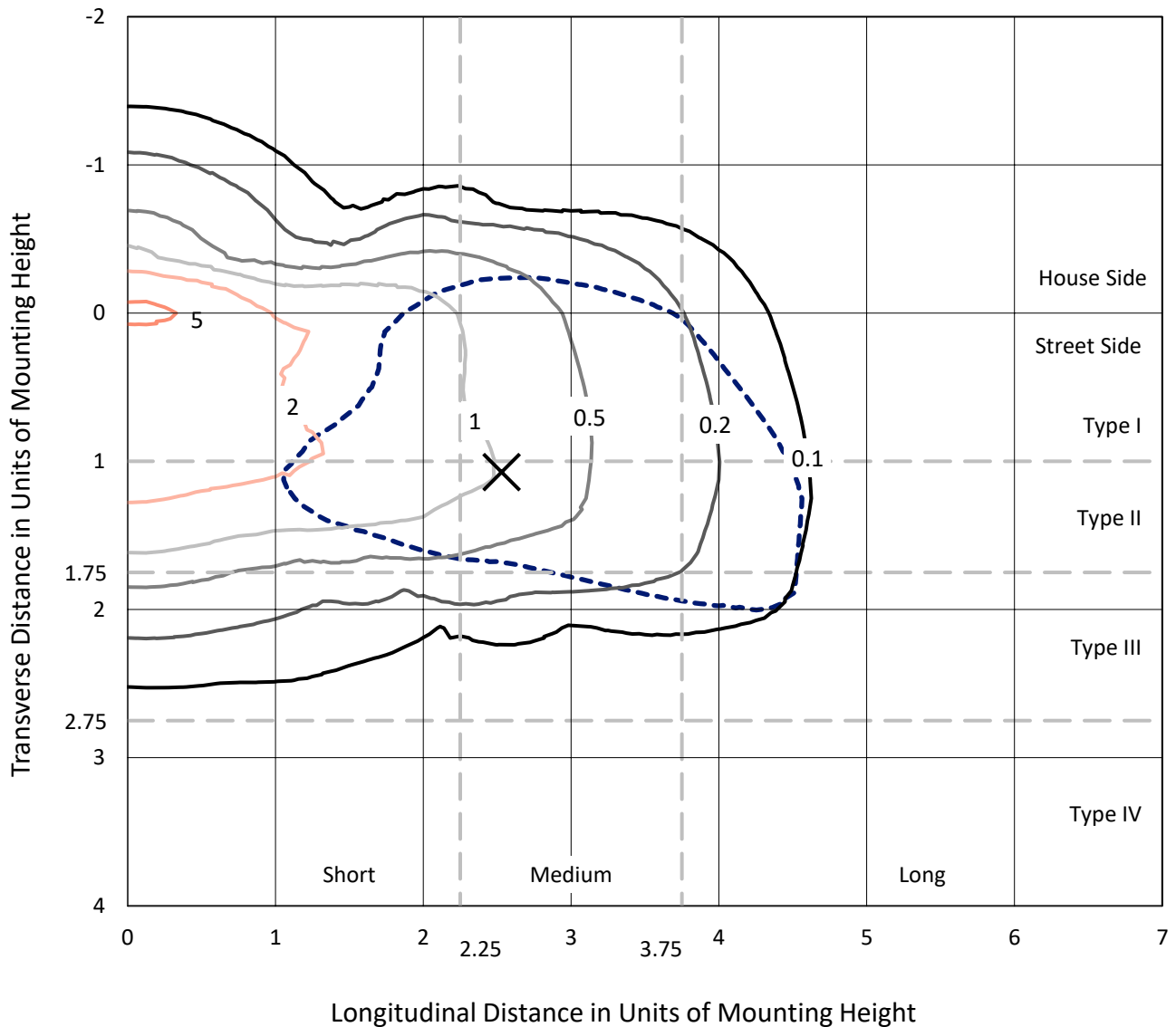
Lumens per Lamp: N/A
Luminaire Lumens: 15398.8 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

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

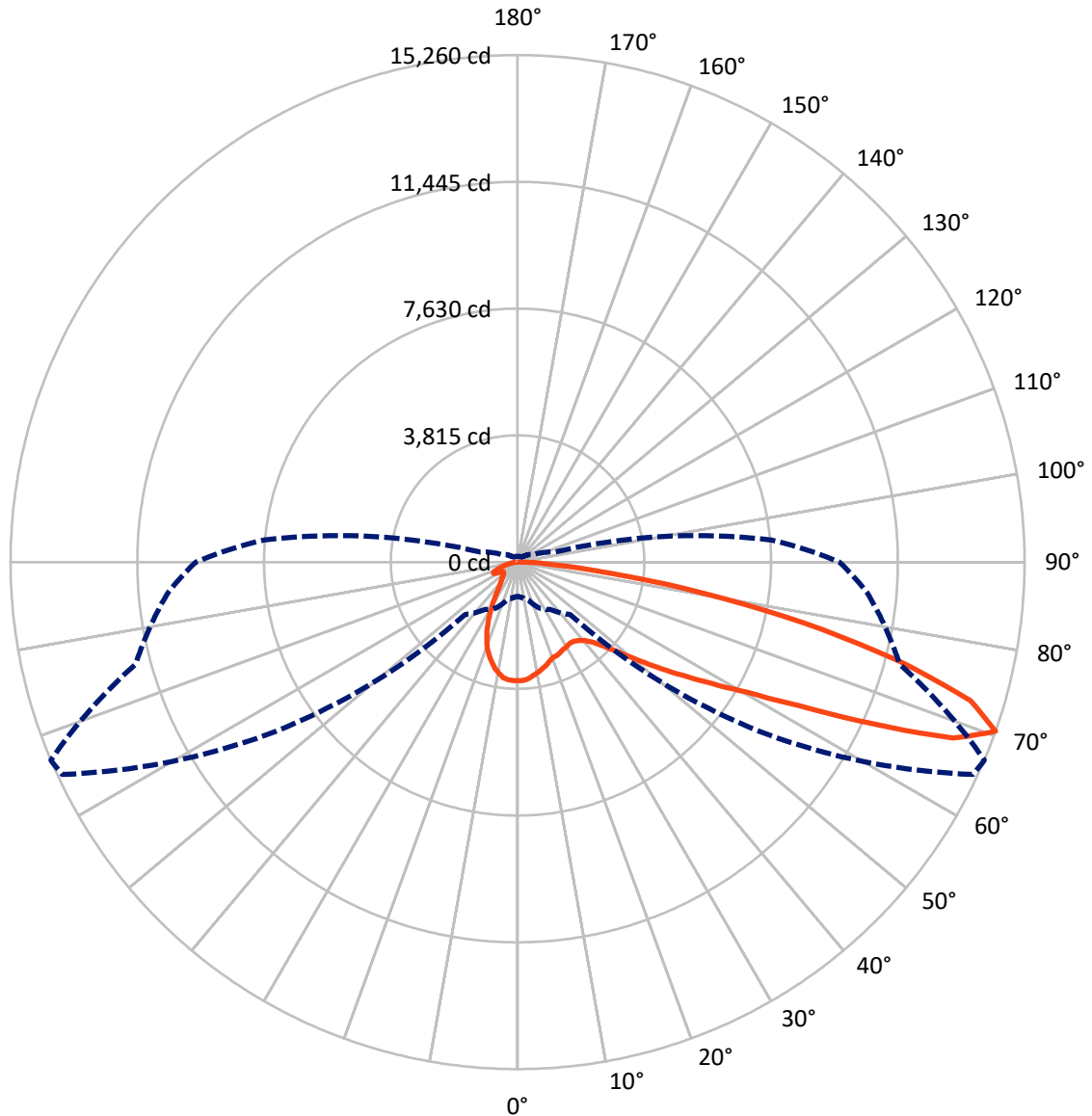
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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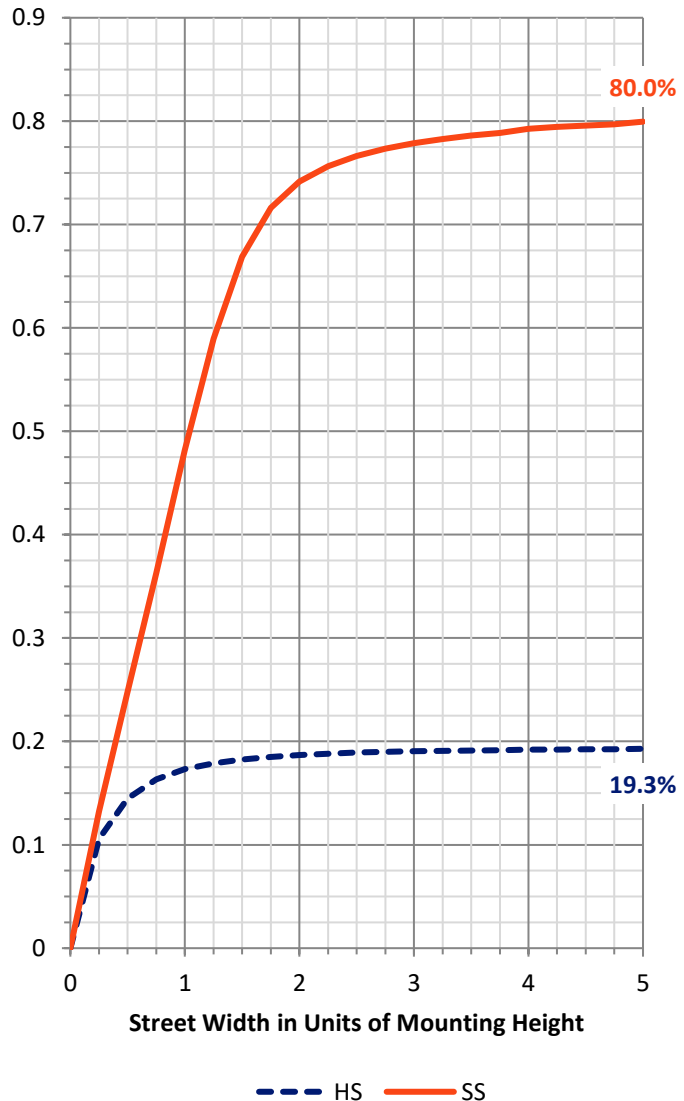
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2999.1	0.0	2999.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	12399.8	0.0	12399.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	15398.8	0.0	15398.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.0	2.0
10°-20°	744.9	4.8
20°-30°	1006.0	6.5
30°-40°	1346.1	8.7
40°-50°	1979.4	12.9
50°-60°	3085.3	20.0
60°-70°	3800.6	24.7
70°-80°	2685.5	17.4
80°-90°	440.2	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°	15398.8	100.0
0°-180°	15398.8	100.0

Coefficient of Utilization



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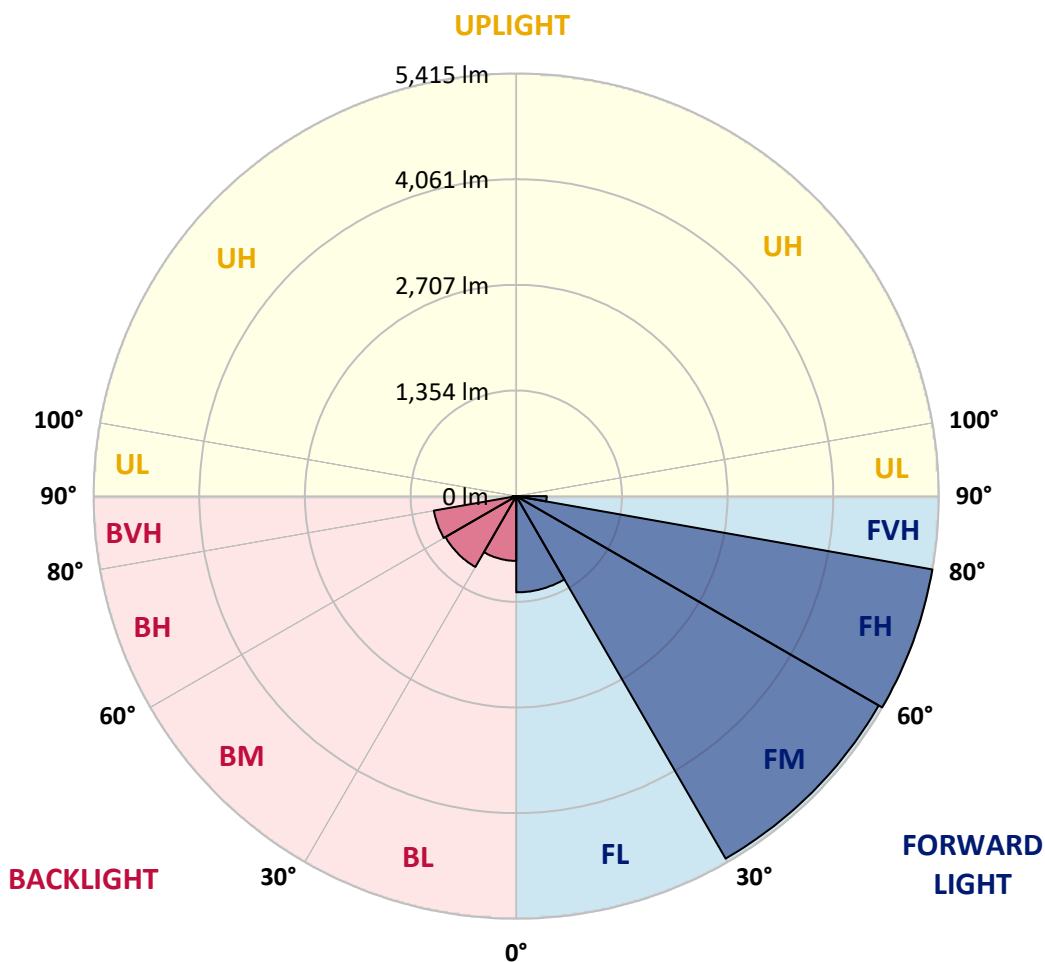
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1232.6	8.0			
FM (30°-60°)	5363.1	34.8			
FH (60°-80°)	5414.7	35.2			G3/7500
FVH (80°-90°)	389.4	2.5			G3/500
BL (0°-30°)	829.3	5.4	B2/1000		
BM (30°-60°)	1047.6	6.8	B2/2500		
BH (60°-80°)	1071.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	50.8	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°	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8
2.5°	3319.3	3356.8	3370.4	3390.9	3443.7	3482.9	3506.8	3534.1	3566.5	3593.8	3610.8
5°	3087.4	3107.9	3140.3	3162.4	3228.9	3334.6	3406.2	3522.2	3518.7	3561.4	3626.2
7.5°	2862.4	2882.9	2898.2	2942.5	3038.0	3133.5	3264.7	3452.3	3438.6	3537.5	3638.1
10°	2722.6	2707.3	2712.4	2787.4	2862.4	2969.8	3135.2	3326.1	3375.5	3529.0	3672.2
12.5°	2591.3	2574.3	2615.2	2662.9	2755.0	2852.2	3049.9	3222.1	3297.1	3498.3	3687.5
15°	2509.5	2497.6	2548.7	2569.2	2678.3	2794.2	2934.0	3143.7	3225.5	3460.8	3663.7
17.5°	2463.5	2473.7	2492.4	2536.8	2606.7	2705.5	2859.0	3090.8	3126.6	3414.8	3658.5
20°	2472.0	2483.9	2485.6	2504.4	2552.1	2628.8	2785.7	3034.6	3058.4	3406.2	3672.2
22.5°	2540.2	2523.1	2530.0	2518.0	2531.7	2591.3	2729.4	2959.6	3051.6	3334.6	3643.2
25°	2642.5	2618.6	2615.2	2574.3	2548.7	2565.8	2719.2	2940.8	3000.5	3312.5	3641.5
27.5°	2823.2	2787.4	2787.4	2726.0	2622.0	2594.7	2690.2	2910.1	2963.0	3292.0	3602.3
30°	2997.1	2997.1	2998.8	2911.8	2795.9	2661.2	2702.1	2898.2	2932.3	3230.6	3549.4
32.5°	3208.5	3203.4	3194.8	3152.2	2973.2	2772.0	2760.1	2882.9	2899.9	3210.2	3534.1
35°	3414.8	3401.1	3467.6	3430.1	3247.7	2988.5	2819.8	2889.7	2927.2	3179.5	3486.4
37.5°	3569.9	3578.4	3716.5	3740.4	3583.5	3234.0	2988.5	2957.9	2993.7	3223.8	3486.4
40°	3771.1	3805.2	3934.7	4014.9	3919.4	3558.0	3256.2	3072.1	3097.7	3322.7	3561.4
42.5°	4035.3	4064.3	4229.7	4333.7	4306.4	3970.5	3520.5	3310.8	3290.3	3488.1	3673.9
45°	4384.8	4389.9	4557.0	4700.2	4756.4	4401.8	3939.8	3612.5	3595.5	3772.8	3880.2
47.5°	4800.8	4795.7	4899.7	5053.1	5204.8	4916.7	4422.3	4071.1	4009.7	4180.2	4222.8
50°	5203.1	5180.9	5204.8	5400.9	5692.4	5561.1	5008.8	4632.0	4570.6	4664.4	4737.7
52.5°	5424.7	5452.0	5387.2	5646.4	6210.7	6323.2	5786.2	5302.0	5249.1	5295.2	5423.0
55°	5269.6	5325.9	5283.2	5528.7	6437.4	7252.3	6792.0	6077.7	6009.5	5992.4	6202.1
57.5°	4609.8	4712.1	4720.6	5109.3	6359.0	7971.7	8207.0	6993.2	6890.9	6717.0	6933.5
60°	3539.2	3641.5	3719.9	4180.2	5687.3	8401.4	9847.0	8295.7	7958.1	7508.0	7637.6
62.5°	2480.5	2550.4	2628.8	2911.8	4384.8	8149.0	11265.4	10130.0	9507.8	8341.7	8503.6
65°	1807.1	1861.7	1941.8	2108.9	2693.6	6742.6	11923.5	12308.8	11718.9	9402.1	9381.6
67.5°	1360.4	1394.5	1500.2	1767.9	1866.8	4164.9	11241.6	14610.3	14133.0	10580.1	10087.4
70°	1029.7	1058.7	1157.6	1524.1	1744.0	2233.3	8868.5	15123.5	15259.8	11901.3	10561.4
72.5°	709.2	741.6	852.4	1270.1	1660.5	1771.3	5566.2	13739.1	14255.7	12445.2	10053.3
75°	434.7	456.9	521.7	963.2	1648.6	1732.1	3063.6	11258.6	11805.9	11499.0	8795.2
77.5°	306.9	305.2	317.1	564.3	1428.6	1742.3	1888.9	8249.6	8781.5	8474.7	5968.6
80°	223.3	225.0	237.0	337.6	970.0	1771.3	1488.3	5525.3	5683.9	4418.9	2354.4
82.5°	134.7	141.5	170.5	228.4	583.0	1599.1	1375.8	3070.4	2872.6	1418.4	647.8
85°	71.6	71.6	100.6	144.9	310.3	1193.4	1324.6	1461.0	1224.1	439.8	240.4
87.5°	17.0	17.0	29.0	58.0	124.5	571.1	903.6	581.3	465.4	148.3	98.9
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°	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8
2.5°	3604.0	3583.5	3609.1	3558.0	3517.0	3518.7	3455.7	3452.3	3443.7	3399.4	3414.8
5°	3644.9	3627.9	3598.9	3542.6	3452.3	3361.9	3307.4	3237.5	3208.5	3193.1	3199.9
7.5°	3684.1	3653.4	3569.9	3491.5	3351.7	3181.2	3082.3	2988.5	2869.2	2855.6	2831.7
10°	3694.3	3629.6	3522.2	3355.1	3169.3	2980.0	2755.0	2581.1	2489.0	2417.4	2390.2
12.5°	3679.0	3651.7	3445.4	3230.6	2949.3	2652.7	2390.2	2144.7	1974.2	1885.5	1861.7
15°	3677.3	3629.6	3360.2	3041.4	2681.7	2294.7	1921.3	1626.4	1447.4	1374.1	1374.1
17.5°	3679.0	3564.8	3259.6	2850.5	2366.3	1842.9	1432.0	1190.0	1091.1	1080.9	1089.4
20°	3644.9	3517.0	3153.9	2625.4	1970.8	1384.3	1039.9	941.1	941.1	954.7	959.8
22.5°	3614.2	3445.4	2986.8	2347.5	1568.4	1002.4	845.6	816.6	849.0	872.9	883.1
25°	3571.6	3385.8	2816.4	2059.4	1193.4	808.1	734.8	741.6	772.3	814.9	811.5
27.5°	3510.2	3281.8	2613.5	1725.3	888.2	697.3	678.5	681.9	714.3	733.1	729.7
30°	3440.3	3176.1	2426.0	1392.8	704.1	639.3	637.6	646.1	651.2	661.5	659.8
32.5°	3351.7	3036.3	2226.5	1082.6	634.2	606.9	600.1	595.0	600.1	598.4	593.3
35°	3288.6	2961.3	2023.6	825.1	595.0	577.9	572.8	564.3	557.5	547.2	545.5
37.5°	3271.5	2886.3	1810.5	673.4	564.3	555.8	538.7	523.4	514.9	509.7	506.3
40°	3261.3	2836.8	1602.5	591.6	538.7	530.2	509.7	489.3	480.8	475.6	477.3
42.5°	3297.1	2809.5	1391.1	550.7	516.6	501.2	479.1	455.2	453.5	450.1	455.2
45°	3423.3	2843.6	1195.1	521.7	494.4	468.8	439.8	427.9	426.2	422.8	426.2
47.5°	3709.7	2928.9	1028.0	502.9	470.5	448.4	417.7	400.6	398.9	397.2	397.2
50°	4105.2	3191.4	888.2	480.8	455.2	424.5	395.5	376.8	373.4	366.5	366.5
52.5°	4725.8	3633.0	804.7	468.8	427.9	402.3	371.7	351.2	342.7	335.8	335.8
55°	5424.7	4180.2	789.3	448.4	398.9	375.1	347.8	327.3	318.8	310.3	306.9
57.5°	6220.9	4904.8	898.4	434.7	378.5	347.8	317.1	298.3	291.5	283.0	279.6
60°	6962.5	5627.6	1237.7	414.3	359.7	322.2	291.5	272.8	264.2	255.7	255.7
62.5°	7820.0	6522.6	1812.2	414.3	342.7	294.9	264.2	250.6	245.5	237.0	235.3
65°	8834.4	7448.4	2231.6	439.8	337.6	271.1	238.7	225.0	219.9	214.8	213.1
67.5°	9606.7	7980.3	1919.6	508.0	359.7	250.6	213.1	204.6	201.2	196.1	192.6
70°	9688.5	7656.3	1157.6	549.0	381.9	230.2	190.9	182.4	182.4	177.3	173.9
72.5°	8953.7	6793.7	779.1	489.3	346.1	206.3	168.8	162.0	158.5	155.1	153.4
75°	7492.7	5762.3	615.4	390.4	266.0	170.5	146.6	139.8	134.7	133.0	129.6
77.5°	5032.6	3745.5	455.2	305.2	196.1	138.1	122.7	115.9	110.8	109.1	104.0
80°	1933.3	1426.9	293.2	221.6	138.1	109.1	97.2	90.4	86.9	81.8	78.4
82.5°	569.4	462.0	163.7	136.4	88.7	75.0	69.9	64.8	59.7	54.6	52.8
85°	235.3	211.4	100.6	71.6	54.6	44.3	40.9	35.8	30.7	27.3	23.9
87.5°	109.1	90.4	46.0	27.3	18.8	10.2	5.1	1.7	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)