

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: P480087

Luminaire Tested: **IFLD-M-SA4A-735-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480087  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-735-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

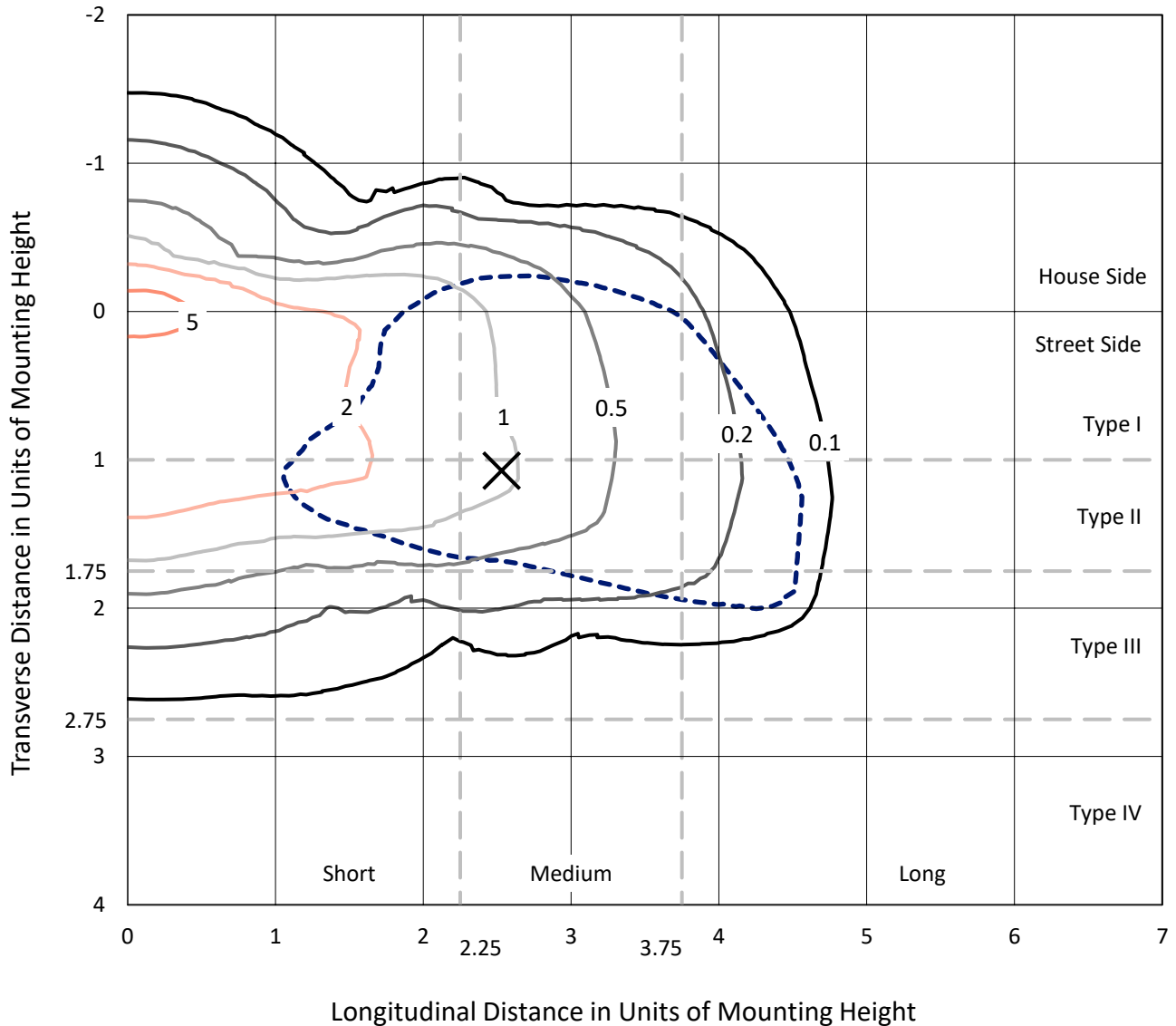
Lumens per Lamp: N/A  
Luminaire Lumens: 18160.8 lumens  
Efficiency: N/A  
Efficacy: 141.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

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: P480087  
 CATALOG NUMBER: IFLD-M-SA4A-735-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

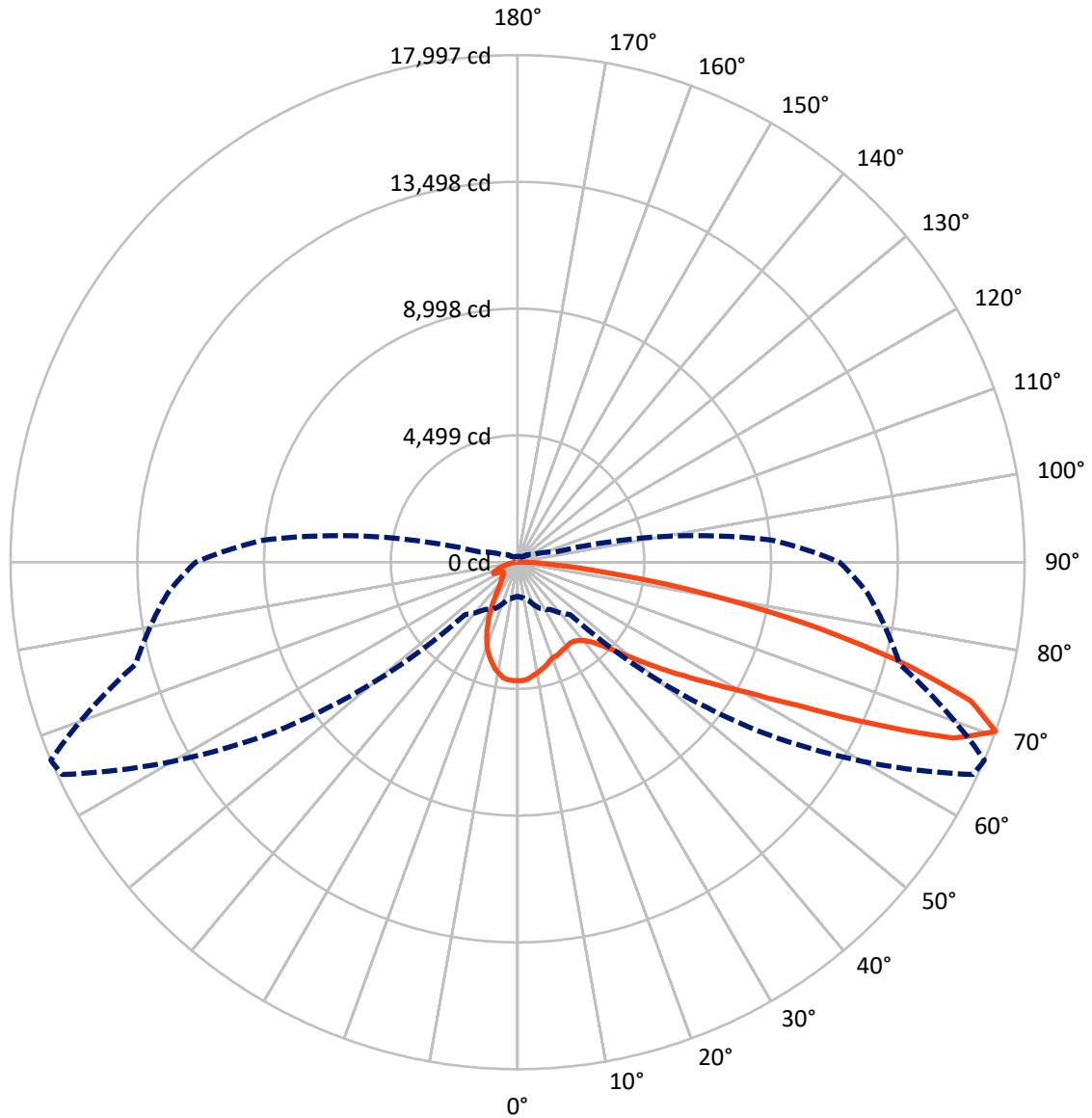
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type III - Medium - N/A

REPORT NUMBER: P480087  
CATALOG NUMBER: IFLD-M-SA4A-735-U-SL2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P480087  
 CATALOG NUMBER: IFLD-M-SA4A-735-U-SL2

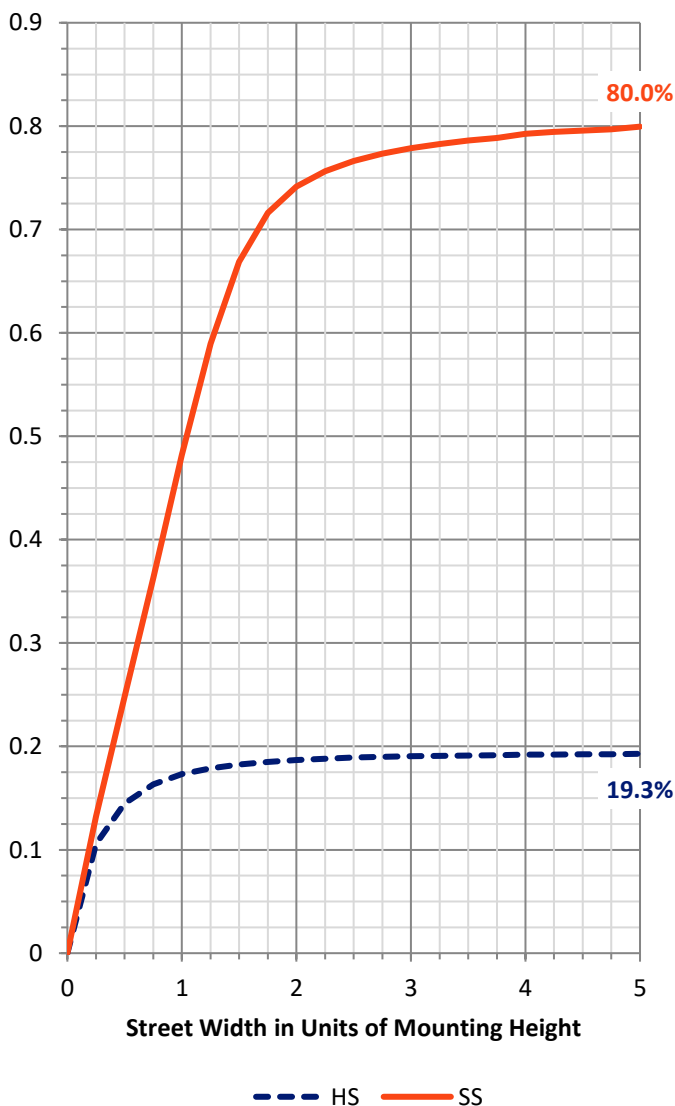
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3537.0	0.0	3537.0
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	14623.8	0.0	14623.8
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	18160.8	0.0	18160.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.8	2.0
10°-20°	878.5	4.8
20°-30°	1186.4	6.5
30°-40°	1587.5	8.7
40°-50°	2334.4	12.9
50°-60°	3638.7	20.0
60°-70°	4482.3	24.7
70°-80°	3167.1	17.4
80°-90°	519.1	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°	18160.8	100.0
0°-180°	18160.8	100.0

**Coefficient of Utilization**

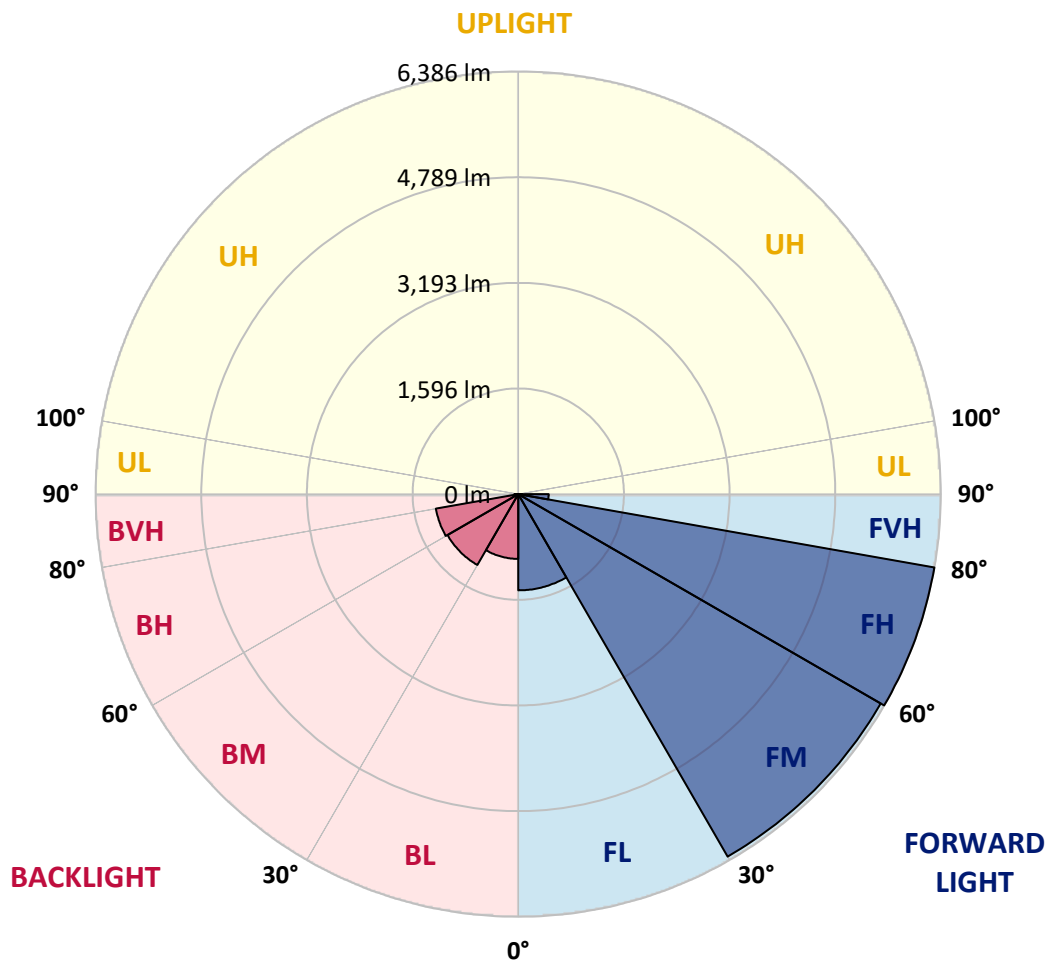


REPORT NUMBER: P480087  
 CATALOG NUMBER: IFLD-M-SA4A-735-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1453.6	8.0			
FM (30°-60°)	6325.0	34.8			
FH (60°-80°)	6385.9	35.2			G3/7500
FVH (80°-90°)	459.2	2.5			G3/500
BL (0°-30°)	978.1	5.4	B2/1000		
BM (30°-60°)	1235.5	6.8	B2/2500		
BH (60°-80°)	1263.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	59.9	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: P480087

CATALOG NUMBER: IFLD-M-SA4A-735-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2
2.5°	3914.6	3958.9	3975.0	3999.1	4061.4	4107.7	4135.8	4168.0	4206.2	4238.3	4258.4
5°	3641.2	3665.3	3703.5	3729.7	3808.1	3932.7	4017.2	4153.9	4149.9	4200.1	4276.5
7.5°	3375.8	3399.9	3418.0	3470.3	3582.9	3695.5	3850.3	4071.5	4055.4	4172.0	4290.6
10°	3210.9	3192.8	3198.9	3287.3	3375.8	3502.5	3697.5	3922.7	3981.0	4161.9	4330.8
12.5°	3056.1	3036.0	3084.3	3140.6	3249.1	3363.7	3597.0	3800.0	3888.5	4125.7	4348.9
15°	2959.6	2945.5	3005.8	3030.0	3158.7	3295.4	3460.2	3707.5	3804.1	4081.5	4320.8
17.5°	2905.3	2917.4	2939.5	2991.8	3074.2	3190.8	3371.8	3645.2	3687.4	4027.2	4314.7
20°	2915.4	2929.4	2931.5	2953.6	3009.9	3100.3	3285.3	3578.9	3607.0	4017.2	4330.8
22.5°	2995.8	2975.7	2983.7	2969.7	2985.7	3056.1	3219.0	3490.4	3599.0	3932.7	4296.6
25°	3116.4	3088.3	3084.3	3036.0	3005.8	3026.0	3206.9	3468.3	3538.7	3906.6	4294.6
27.5°	3329.6	3287.3	3287.3	3214.9	3092.3	3060.1	3172.7	3432.1	3494.4	3882.5	4248.4
30°	3534.6	3534.6	3536.6	3434.1	3297.4	3138.5	3186.8	3418.0	3458.2	3810.1	4186.1
32.5°	3783.9	3777.9	3767.9	3717.6	3506.5	3269.2	3255.2	3399.9	3420.0	3786.0	4168.0
35°	4027.2	4011.1	4089.6	4045.3	3830.2	3524.6	3325.5	3408.0	3452.2	3749.8	4111.7
37.5°	4210.2	4220.2	4383.1	4411.3	4226.3	3814.1	3524.6	3488.4	3530.6	3802.0	4111.7
40°	4447.4	4487.7	4640.5	4735.0	4622.4	4196.1	3840.2	3623.1	3653.3	3918.7	4200.1
42.5°	4759.1	4793.3	4988.3	5110.9	5078.8	4682.7	4151.9	3904.6	3880.5	4113.7	4332.8
45°	5171.3	5177.3	5374.3	5543.2	5609.6	5191.4	4646.5	4260.5	4240.4	4449.5	4576.1
47.5°	5661.8	5655.8	5778.5	5959.4	6138.4	5798.6	5215.5	4801.3	4728.9	4930.0	4980.3
50°	6136.3	6110.2	6138.4	6369.6	6713.4	6558.6	5907.1	5462.8	5390.4	5501.0	5587.5
52.5°	6397.7	6429.9	6353.5	6659.1	7324.6	7457.3	6824.0	6253.0	6190.6	6244.9	6395.7
55°	6214.8	6281.1	6230.8	6520.4	7592.0	8553.1	8010.2	7167.8	7087.4	7067.3	7314.6
57.5°	5436.7	5557.3	5567.3	6025.8	7499.5	9401.6	9679.0	8247.5	8126.8	7921.8	8177.1
60°	4174.0	4294.6	4387.1	4930.0	6707.4	9908.2	11613.2	9783.6	9385.5	8854.7	9007.5
62.5°	2925.4	3007.9	3100.3	3434.1	5171.3	9610.7	13286.0	11947.0	11213.1	9837.9	10028.9
65°	2131.2	2195.6	2290.1	2487.1	3176.7	7951.9	14062.1	14516.5	13820.9	11088.5	11064.3
67.5°	1604.5	1644.7	1769.3	2085.0	2201.6	4911.9	13257.9	17230.8	16667.9	12477.8	11896.7
70°	1214.4	1248.6	1365.2	1797.5	2056.8	2633.9	10459.1	17836.0	17996.9	14036.0	12455.7
72.5°	836.4	874.6	1005.3	1497.9	1958.3	2089.0	6564.6	16203.4	16812.6	14677.4	11856.5
75°	512.7	538.8	615.2	1136.0	1944.2	2042.8	3613.0	13278.0	13923.4	13561.5	10372.7
77.5°	361.9	359.9	374.0	665.5	1684.9	2054.8	2227.7	9729.3	10356.6	9994.7	7039.1
80°	263.4	265.4	279.5	398.1	1144.0	2089.0	1755.3	6516.4	6703.3	5211.5	2776.6
82.5°	158.8	166.9	201.1	269.4	687.6	1885.9	1622.6	3621.1	3387.9	1672.8	764.0
85°	84.4	84.4	118.6	170.9	365.9	1407.4	1562.2	1723.1	1443.6	518.7	283.5
87.5°	20.1	20.1	34.2	68.4	146.8	673.6	1065.6	685.6	548.9	174.9	116.6
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: P480087  
 CATALOG NUMBER: IFLD-M-SA4A-735-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2	4204.2
2.5°	4250.4	4226.3	4256.4	4196.1	4147.9	4149.9	4075.5	4071.5	4061.4	4009.1	4027.2
5°	4298.7	4278.6	4244.4	4178.0	4071.5	3964.9	3900.6	3818.1	3783.9	3765.9	3773.9
7.5°	4344.9	4308.7	4210.2	4117.7	3952.8	3751.8	3635.2	3524.6	3383.8	3367.8	3339.6
10°	4357.0	4280.6	4153.9	3956.9	3737.7	3514.5	3249.1	3044.0	2935.5	2851.0	2818.9
12.5°	4338.9	4306.7	4063.4	3810.1	3478.3	3128.5	2818.9	2529.3	2328.3	2223.7	2195.6
15°	4336.9	4280.6	3962.9	3586.9	3162.7	2706.3	2265.9	1918.1	1707.0	1620.5	1620.5
17.5°	4338.9	4204.2	3844.3	3361.7	2790.7	2173.5	1688.9	1403.4	1286.8	1274.7	1284.8
20°	4298.7	4147.9	3719.6	3096.3	2324.3	1632.6	1226.5	1109.9	1109.9	1125.9	1132.0
22.5°	4262.5	4063.4	3522.6	2768.6	1849.8	1182.2	997.3	963.1	1001.3	1029.4	1041.5
25°	4212.2	3993.0	3321.5	2428.8	1407.4	953.0	866.6	874.6	910.8	961.1	957.0
27.5°	4139.8	3870.4	3082.2	2034.7	1047.5	822.3	800.2	804.2	842.4	864.6	860.5
30°	4057.4	3745.7	2861.1	1642.7	830.4	754.0	752.0	762.0	768.0	780.1	778.1
32.5°	3952.8	3580.9	2625.8	1276.7	747.9	715.8	707.7	701.7	707.7	705.7	699.7
35°	3878.4	3492.4	2386.6	973.1	701.7	681.6	675.6	665.5	657.5	645.4	643.4
37.5°	3858.3	3403.9	2135.3	794.2	665.5	655.5	635.3	617.3	607.2	601.2	597.1
40°	3846.3	3345.6	1890.0	697.7	635.3	625.3	601.2	577.0	567.0	561.0	563.0
42.5°	3888.5	3313.5	1640.6	649.4	609.2	591.1	565.0	536.8	534.8	530.8	536.8
45°	4037.3	3353.7	1409.4	615.2	583.1	552.9	518.7	504.7	502.6	498.6	502.6
47.5°	4375.1	3454.2	1212.4	593.1	554.9	528.8	492.6	472.5	470.5	468.5	468.5
50°	4841.5	3763.8	1047.5	567.0	536.8	500.6	466.5	444.3	440.3	432.3	432.3
52.5°	5573.4	4284.6	949.0	552.9	504.7	474.5	438.3	414.2	404.1	396.1	396.1
55°	6397.7	4930.0	930.9	528.8	470.5	442.3	410.2	386.0	376.0	365.9	361.9
57.5°	7336.7	5784.5	1059.6	512.7	446.4	410.2	374.0	351.9	343.8	333.8	329.7
60°	8211.3	6637.0	1459.7	488.6	424.2	380.0	343.8	321.7	311.6	301.6	301.6
62.5°	9222.6	7692.6	2137.3	488.6	404.1	347.8	311.6	295.6	289.5	279.5	277.5
65°	10418.9	8784.3	2631.9	518.7	398.1	319.7	281.5	265.4	259.4	253.3	251.3
67.5°	11329.7	9411.6	2263.9	599.2	424.2	295.6	251.3	241.3	237.3	231.2	227.2
70°	11426.2	9029.6	1365.2	647.4	450.4	271.4	225.2	215.1	215.1	209.1	205.1
72.5°	10559.7	8012.2	918.8	577.0	408.2	243.3	199.0	191.0	187.0	183.0	181.0
75°	8836.6	6795.8	725.8	460.4	313.7	201.1	172.9	164.9	158.8	156.8	152.8
77.5°	5935.3	4417.3	536.8	359.9	231.2	162.9	144.8	136.7	130.7	128.7	122.6
80°	2280.0	1682.9	345.8	261.4	162.9	128.7	114.6	106.6	102.5	96.5	92.5
82.5°	671.5	544.9	193.0	160.8	104.6	88.5	82.4	76.4	70.4	64.3	62.3
85°	277.5	249.3	118.6	84.4	64.3	52.3	48.3	42.2	36.2	32.2	28.1
87.5°	128.7	106.6	54.3	32.2	22.1	12.1	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)