

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: P480165

Luminaire Tested: **IFLD-M-SA4A-750-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480165  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-750-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

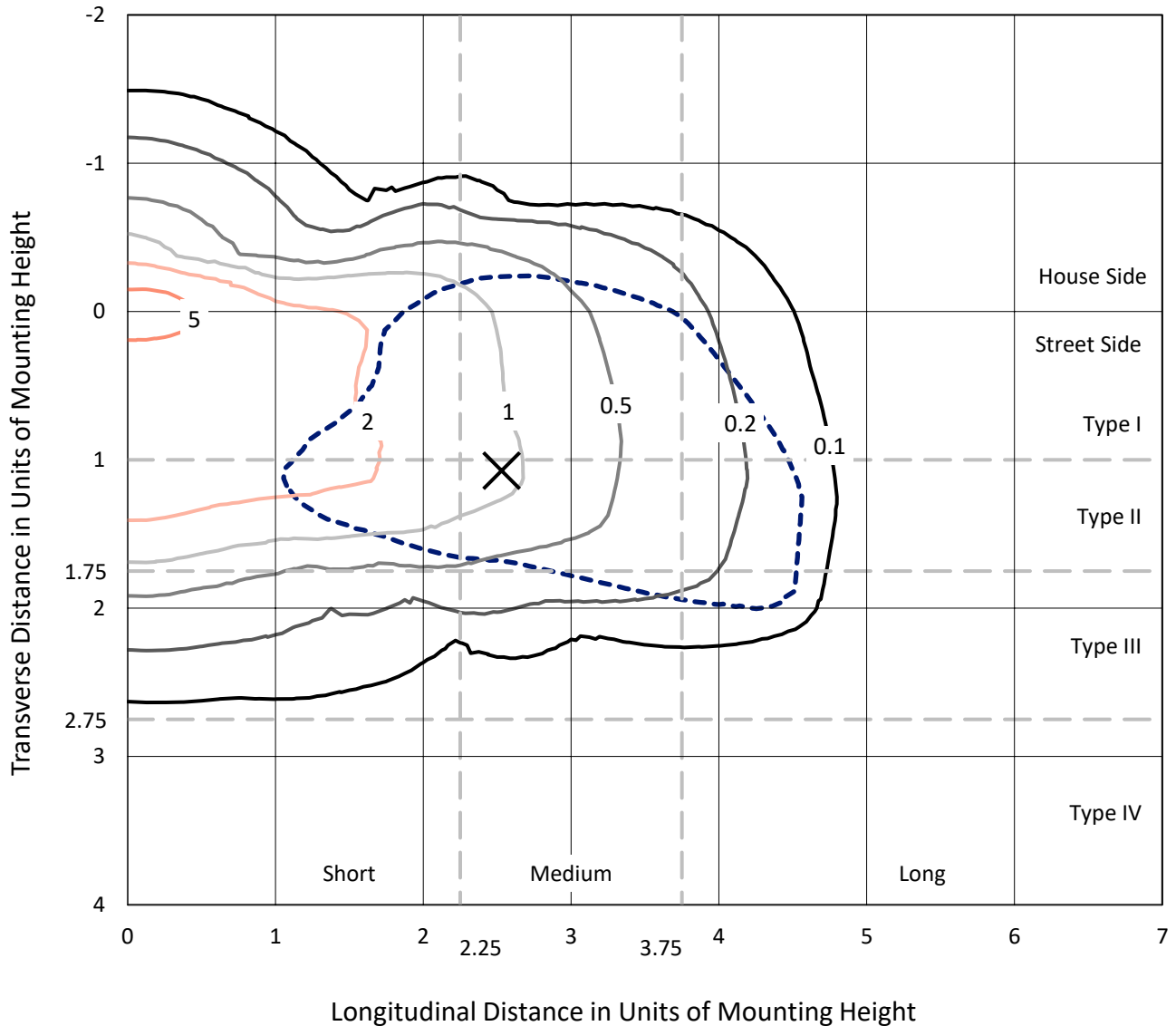
Lumens per Lamp: N/A  
Luminaire Lumens: 18834.7 lumens  
Efficiency: N/A  
Efficacy: 146.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

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: P480165  
 CATALOG NUMBER: IFLD-M-SA4A-750-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

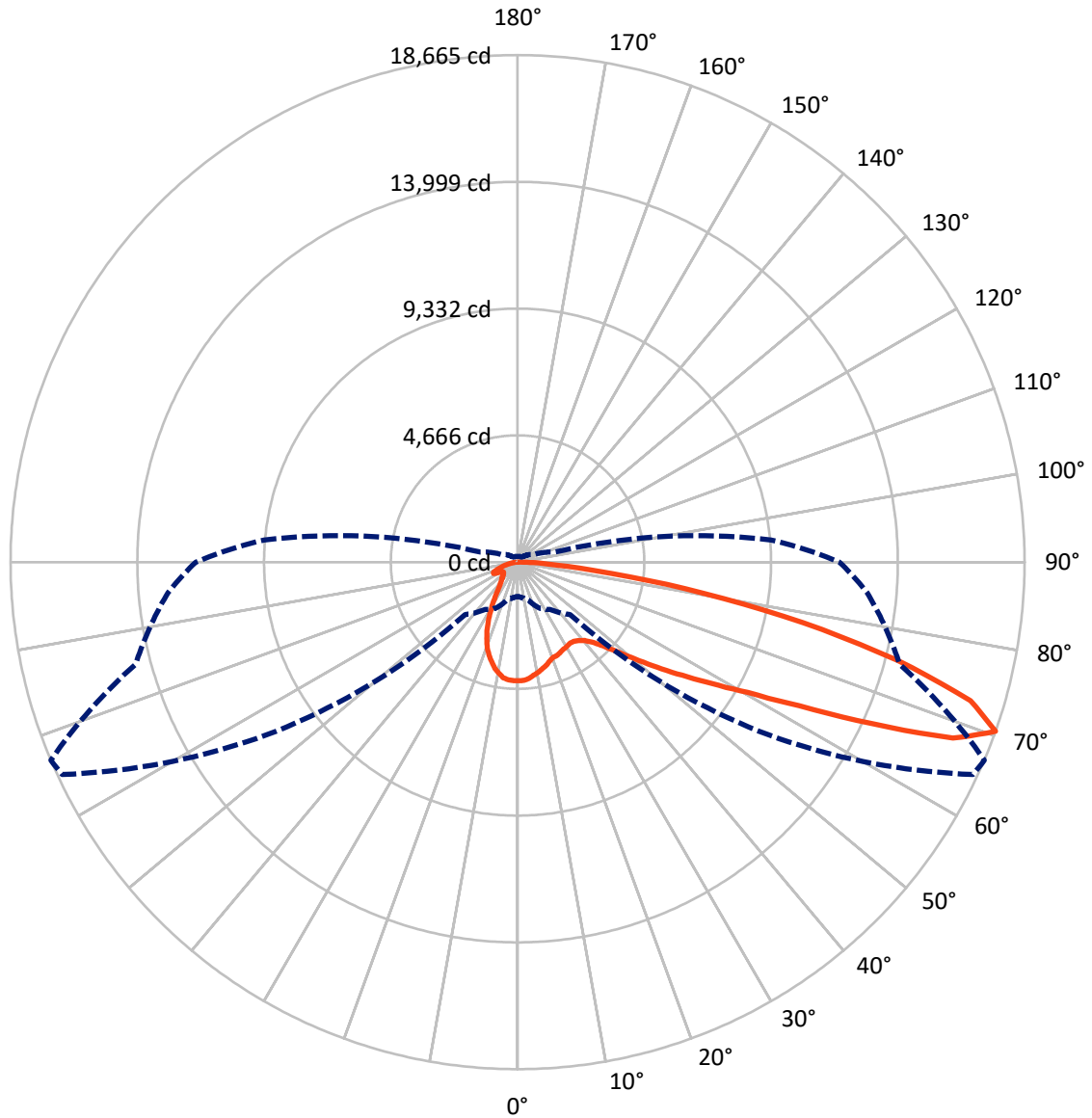
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type III - Medium - N/A

REPORT NUMBER: P480165  
CATALOG NUMBER: IFLD-M-SA4A-750-U-SL2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P480165  
 CATALOG NUMBER: IFLD-M-SA4A-750-U-SL2

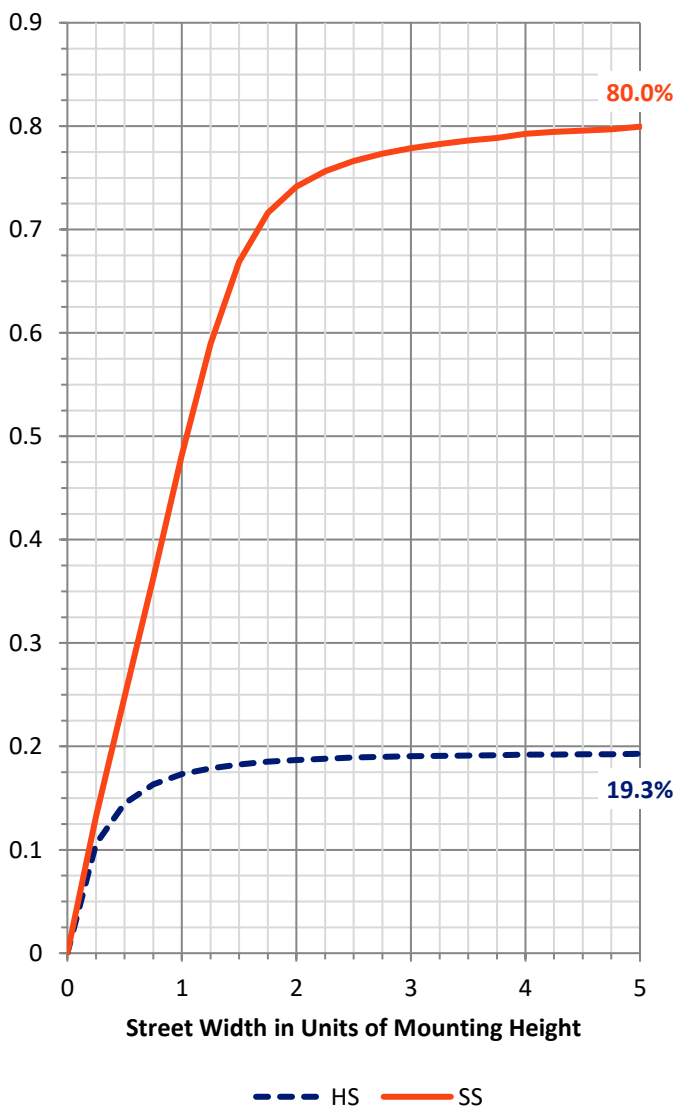
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3668.2	0.0	3668.2
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	15166.5	0.0	15166.5
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	18834.7	0.0	18834.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.4	2.0
10°-20°	911.1	4.8
20°-30°	1230.4	6.5
30°-40°	1646.4	8.7
40°-50°	2421.0	12.9
50°-60°	3773.7	20.0
60°-70°	4648.6	24.7
70°-80°	3284.7	17.4
80°-90°	538.4	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°	18834.7	100.0
0°-180°	18834.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P480165

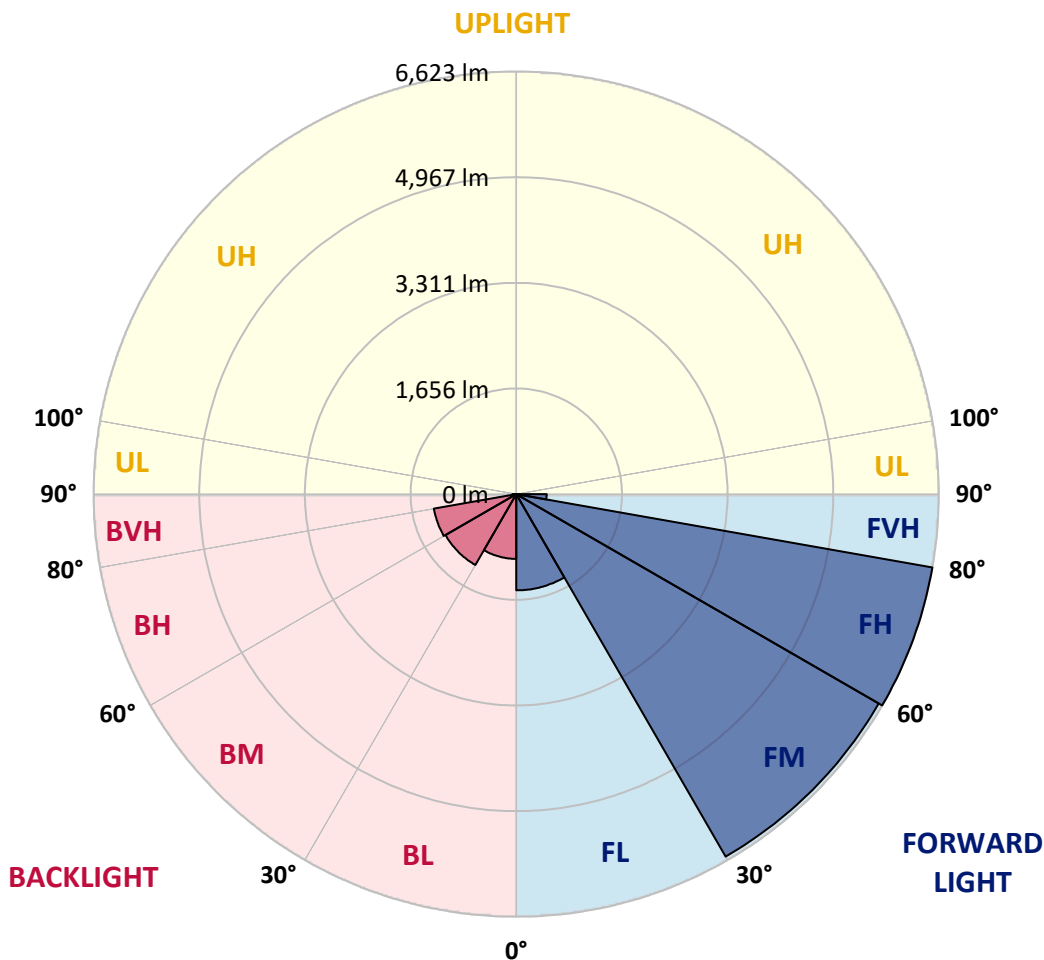
CATALOG NUMBER: IFLD-M-SA4A-750-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1507.6	8.0			
FM (30°-60°)	6559.7	34.8			
FH (60°-80°)	6622.9	35.2			G3/7500
FVH (80°-90°)	476.3	2.5			G3/500
BL (0°-30°)	1014.4	5.4	B3/2500		
BM (30°-60°)	1281.4	6.8	B2/2500		
BH (60°-80°)	1310.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	62.1	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: P480165

CATALOG NUMBER: IFLD-M-SA4A-750-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4360.2	4360.2	4360.2	4360.2	4360.2	4360.2	4360.2	4360.2	4360.2	4360.2	4360.2
2.5°	4059.9	4105.8	4122.5	4147.5	4212.1	4260.1	4289.3	4322.6	4362.3	4395.6	4416.5
5°	3776.3	3801.3	3841.0	3868.1	3949.4	4078.7	4166.2	4308.0	4303.9	4356.0	4435.2
7.5°	3501.1	3526.1	3544.9	3599.1	3715.8	3832.6	3993.2	4222.5	4205.9	4326.8	4449.8
10°	3330.1	3311.3	3317.6	3409.3	3501.1	3632.4	3834.7	4068.2	4128.7	4316.4	4491.5
12.5°	3169.5	3148.7	3198.7	3257.1	3369.7	3488.6	3730.4	3941.0	4032.8	4278.8	4510.3
15°	3069.4	3054.8	3117.4	3142.4	3275.9	3417.7	3588.6	3845.1	3945.2	4233.0	4481.1
17.5°	3013.1	3025.6	3048.6	3102.8	3188.3	3309.2	3496.9	3780.5	3824.3	4176.7	4474.9
20°	3023.6	3038.1	3040.2	3063.2	3121.6	3215.4	3407.2	3711.7	3740.9	4166.2	4491.5
22.5°	3107.0	3086.1	3094.4	3079.9	3096.5	3169.5	3338.4	3619.9	3732.5	4078.7	4456.1
25°	3232.1	3202.9	3198.7	3148.7	3117.4	3138.2	3325.9	3597.0	3670.0	4051.6	4454.0
27.5°	3453.1	3409.3	3409.3	3334.2	3207.1	3173.7	3290.5	3559.5	3624.1	4026.5	4406.0
30°	3665.8	3665.8	3667.9	3561.5	3419.7	3255.0	3305.1	3544.9	3586.6	3951.5	4341.4
32.5°	3924.4	3918.1	3907.7	3855.6	3636.6	3390.5	3376.0	3526.1	3546.9	3926.4	4322.6
35°	4176.7	4160.0	4241.3	4195.4	3972.3	3655.4	3448.9	3534.4	3580.3	3888.9	4264.3
37.5°	4366.4	4376.9	4545.8	4574.9	4383.1	3955.6	3655.4	3617.8	3661.6	3943.1	4264.3
40°	4612.5	4654.2	4812.7	4910.7	4793.9	4351.8	3982.7	3757.5	3788.8	4064.1	4356.0
42.5°	4935.7	4971.1	5173.4	5300.6	5267.2	4856.5	4306.0	4049.5	4024.5	4266.3	4493.6
45°	5363.2	5369.4	5573.8	5748.9	5817.7	5384.0	4818.9	4418.6	4397.7	4614.6	4745.9
47.5°	5871.9	5865.7	5992.9	6180.6	6366.1	6013.7	5409.0	4979.5	4904.4	5112.9	5165.1
50°	6364.1	6336.9	6366.1	6605.9	6962.5	6802.0	6126.3	5665.5	5590.4	5705.1	5794.8
52.5°	6635.1	6668.5	6589.3	6906.2	7596.4	7734.0	7077.2	6485.0	6420.4	6476.7	6633.0
55°	6445.4	6514.2	6462.1	6762.3	7873.7	8870.5	8307.5	7433.8	7350.4	7329.5	7586.0
57.5°	5638.4	5763.5	5773.9	6249.4	7777.8	9750.4	10038.2	8553.5	8428.4	8215.7	8480.5
60°	4328.9	4454.0	4549.9	5112.9	6956.3	10275.9	12044.2	10146.6	9733.8	9183.3	9341.7
62.5°	3034.0	3119.5	3215.4	3561.5	5363.2	9967.3	13779.1	12390.3	11629.2	10202.9	10401.0
65°	2210.3	2277.0	2375.1	2579.4	3294.6	8247.0	14583.9	15055.2	14333.7	11499.9	11474.9
67.5°	1664.0	1705.7	1835.0	2162.4	2283.3	5094.2	13749.9	17870.2	17286.4	12940.8	12338.2
70°	1259.5	1294.9	1415.9	1864.2	2133.2	2731.6	10847.3	18497.9	18664.7	14556.8	12917.9
72.5°	867.4	907.1	1042.6	1553.5	2031.0	2166.5	6808.2	16804.7	17436.5	15222.0	12296.5
75°	531.7	558.8	638.1	1178.1	2016.4	2118.6	3747.1	13770.7	14440.1	14064.7	10757.6
77.5°	375.3	373.3	387.8	690.2	1747.4	2131.1	2310.4	10090.3	10740.9	10365.6	7300.3
80°	273.2	275.2	289.8	412.9	1186.5	2166.5	1820.4	6758.2	6952.1	5404.9	2879.7
82.5°	164.7	173.1	208.5	279.4	713.1	1955.9	1682.8	3755.5	3513.6	1734.9	792.4
85°	87.6	87.6	123.0	177.2	379.5	1459.6	1620.2	1787.0	1497.2	538.0	294.0
87.5°	20.9	20.9	35.4	70.9	152.2	698.5	1105.2	711.1	569.3	181.4	120.9
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: P480165  
 CATALOG NUMBER: IFLD-M-SA4A-750-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4360.2	4360.2	4360.2	4360.2	4360.2	4360.2	4360.2	4360.2	4360.2	4360.2	4360.2
2.5°	4408.1	4383.1	4414.4	4351.8	4301.8	4303.9	4226.7	4222.5	4212.1	4157.9	4176.7
5°	4458.2	4437.3	4401.9	4333.1	4222.5	4112.0	4045.3	3959.8	3924.4	3905.6	3913.9
7.5°	4506.1	4468.6	4366.4	4270.5	4099.5	3891.0	3770.1	3655.4	3509.4	3492.7	3463.5
10°	4518.6	4439.4	4308.0	4103.7	3876.4	3644.9	3369.7	3157.0	3044.4	2956.8	2923.5
12.5°	4499.9	4466.5	4214.2	3951.5	3607.4	3244.6	2923.5	2623.2	2414.7	2306.2	2277.0
15°	4497.8	4439.4	4109.9	3720.0	3280.0	2806.7	2350.0	1989.3	1770.3	1680.7	1680.7
17.5°	4499.9	4360.2	3986.9	3486.5	2894.3	2254.1	1751.6	1455.5	1334.5	1322.0	1332.4
20°	4458.2	4301.8	3857.6	3211.2	2410.5	1693.2	1272.0	1151.0	1151.0	1167.7	1174.0
22.5°	4420.6	4214.2	3653.3	2871.3	1918.4	1226.1	1034.3	998.8	1038.4	1067.6	1080.1
25°	4368.5	4141.2	3444.8	2518.9	1459.6	988.4	898.7	907.1	944.6	996.7	992.6
27.5°	4293.4	4014.0	3196.6	2110.2	1086.4	852.9	829.9	834.1	873.7	896.6	892.5
30°	4208.0	3884.7	2967.3	1703.6	861.2	782.0	779.9	790.3	796.5	809.1	807.0
32.5°	4099.5	3713.8	2723.3	1324.1	775.7	742.3	734.0	727.7	734.0	731.9	725.7
35°	4022.4	3622.0	2475.1	1009.2	727.7	706.9	700.6	690.2	681.9	669.4	667.3
37.5°	4001.5	3530.3	2214.5	823.7	690.2	679.8	658.9	640.2	629.7	623.5	619.3
40°	3989.0	3469.8	1960.1	723.6	658.9	648.5	623.5	598.5	588.0	581.8	583.9
42.5°	4032.8	3436.4	1701.5	673.5	631.8	613.1	585.9	556.8	554.7	550.5	556.8
45°	4187.1	3478.1	1461.7	638.1	604.7	573.4	538.0	523.4	521.3	517.1	521.3
47.5°	4537.4	3582.4	1257.4	615.1	575.5	548.4	510.9	490.0	487.9	485.9	485.9
50°	5021.2	3903.5	1086.4	588.0	556.8	519.2	483.8	460.8	456.7	448.3	448.3
52.5°	5780.2	4443.6	984.2	573.4	523.4	492.1	454.6	429.6	419.1	410.8	410.8
55°	6635.1	5112.9	965.5	548.4	487.9	458.7	425.4	400.4	389.9	379.5	375.3
57.5°	7608.9	5999.1	1098.9	531.7	462.9	425.4	387.8	364.9	356.6	346.1	342.0
60°	8516.0	6883.3	1513.9	506.7	440.0	394.1	356.6	333.6	323.2	312.8	312.8
62.5°	9564.9	7978.0	2216.6	506.7	419.1	360.7	323.2	306.5	300.3	289.8	287.8
65°	10805.6	9110.3	2729.5	538.0	412.9	331.5	291.9	275.2	269.0	262.7	260.7
67.5°	11750.2	9760.9	2347.9	621.4	440.0	306.5	260.7	250.2	246.1	239.8	235.6
70°	11850.2	9364.7	1415.9	671.4	467.1	281.5	233.5	223.1	223.1	216.9	212.7
72.5°	10951.5	8309.6	952.9	598.5	423.3	252.3	206.4	198.1	193.9	189.8	187.7
75°	9164.5	7048.0	752.8	477.5	325.3	208.5	179.3	171.0	164.7	162.6	158.5
77.5°	6155.5	4581.2	556.8	373.3	239.8	168.9	150.1	141.8	135.5	133.5	127.2
80°	2364.6	1745.3	358.7	271.1	168.9	133.5	118.9	110.5	106.3	100.1	95.9
82.5°	696.5	565.1	200.2	166.8	108.4	91.7	85.5	79.2	73.0	66.7	64.6
85°	287.8	258.6	123.0	87.6	66.7	54.2	50.0	43.8	37.5	33.4	29.2
87.5°	133.5	110.5	56.3	33.4	22.9	12.5	6.3	2.1	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)