

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: P480868

Luminaire Tested: **IFLD-M-SA4B-735-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480868
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-735-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

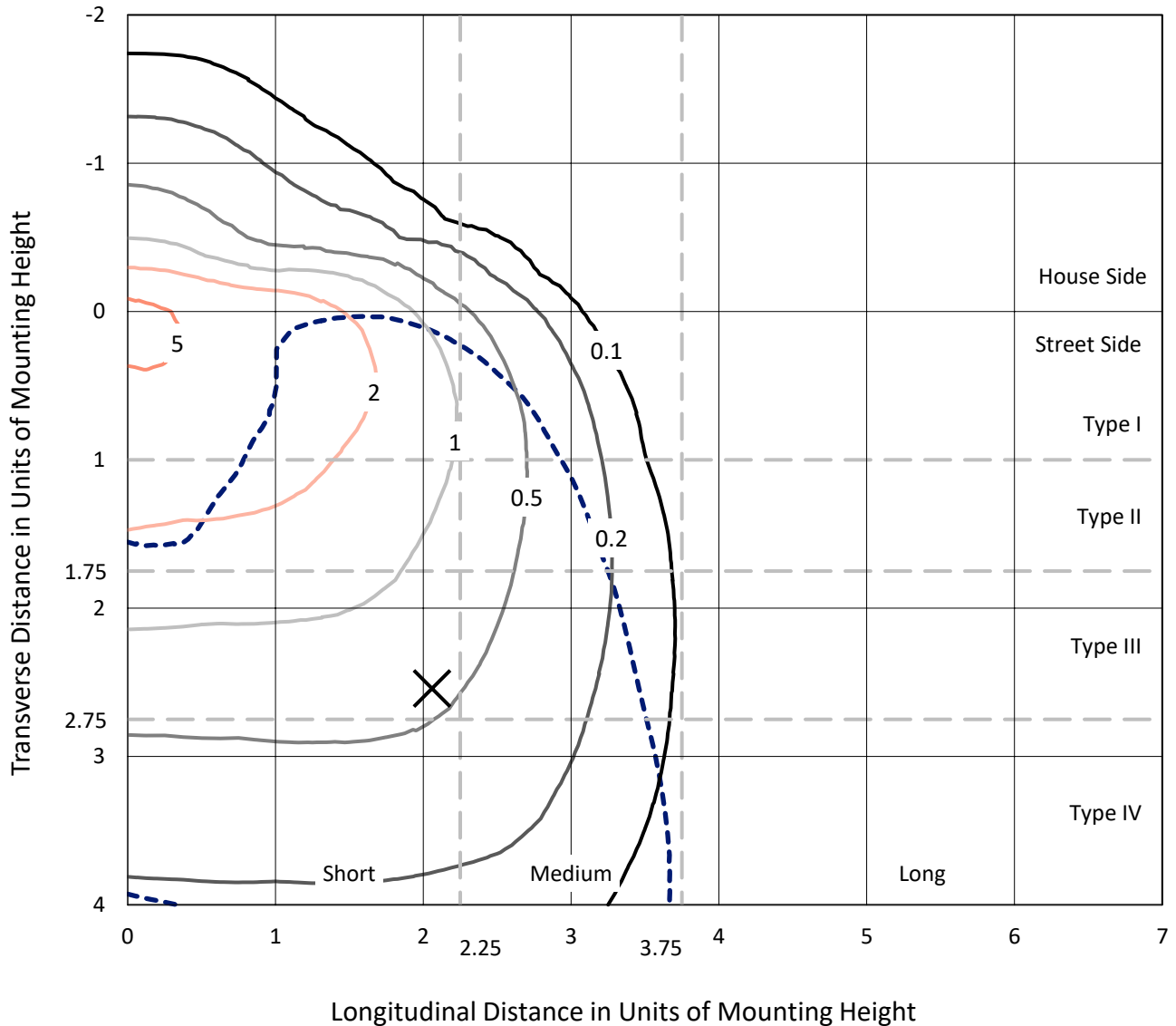
Lumens per Lamp: N/A
Luminaire Lumens: 21789.5 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

REPORT NUMBER: P480868
 CATALOG NUMBER: IFLD-M-SA4B-735-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

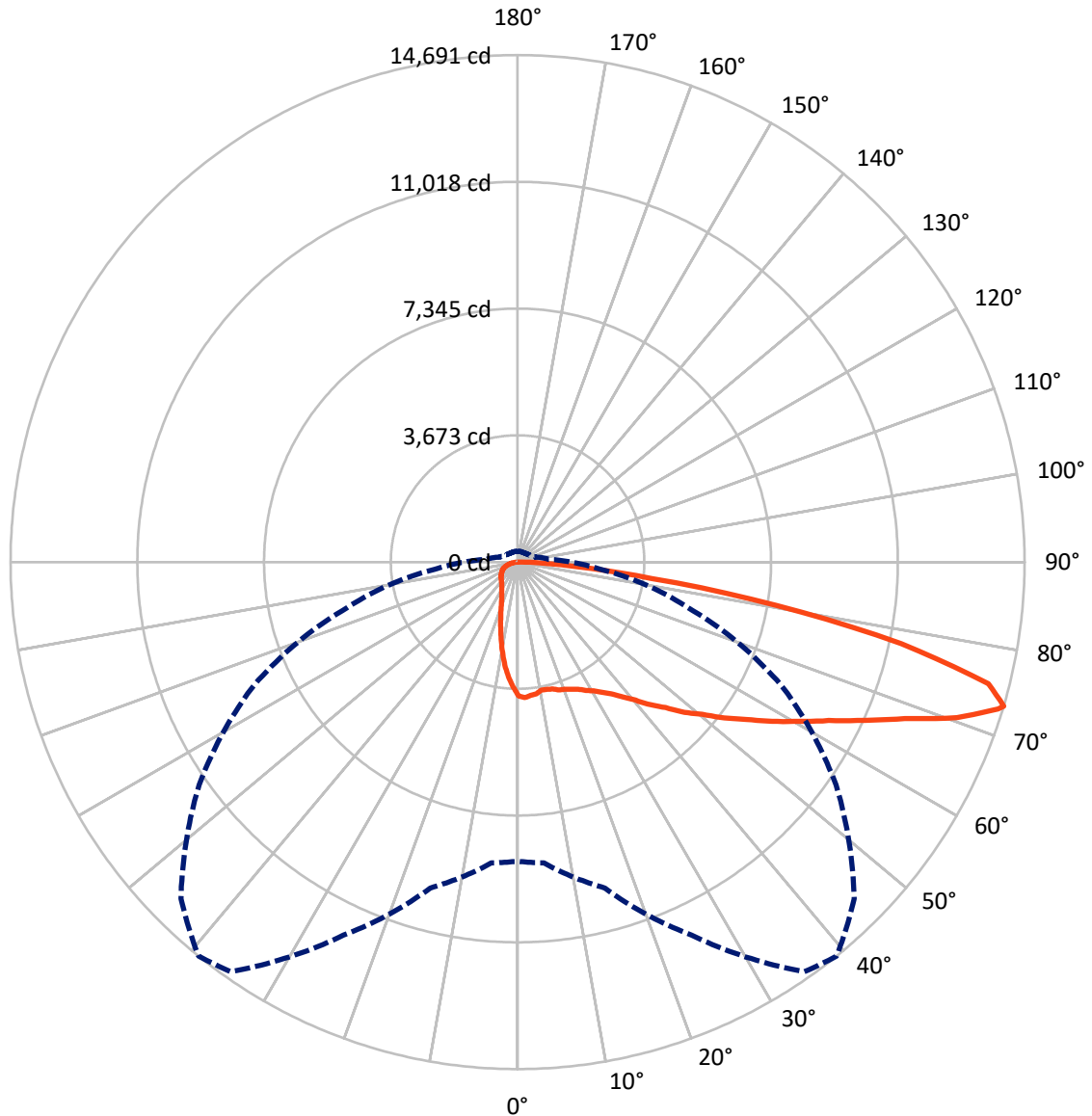
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P480868
CATALOG NUMBER: IFLD-M-SA4B-735-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P480868
 CATALOG NUMBER: IFLD-M-SA4B-735-U-SL4

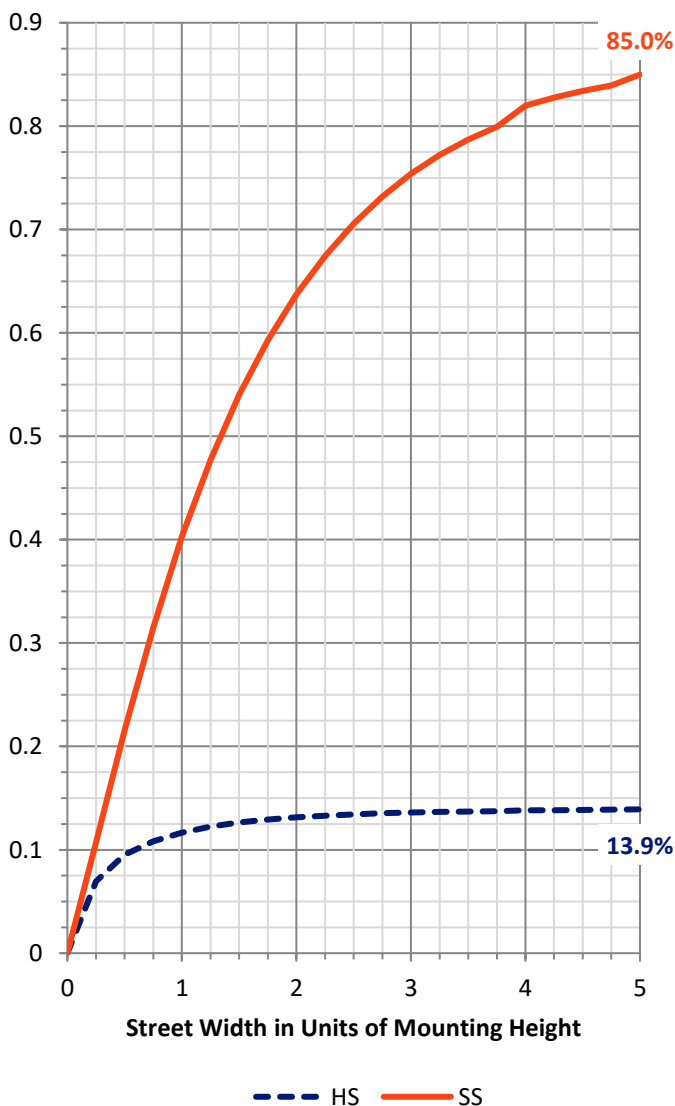
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3063.0	0.0	3063.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	18726.5	0.0	18726.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	21789.5	0.0	21789.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.7	1.5
10°-20°	855.9	3.9
20°-30°	1308.0	6.0
30°-40°	1907.0	8.8
40°-50°	2881.8	13.2
50°-60°	4172.9	19.2
60°-70°	5301.9	24.3
70°-80°	4298.0	19.7
80°-90°	727.2	3.3
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°	21789.5	100.0
0°-180°	21789.5	100.0

Coefficient of Utilization



REPORT NUMBER: P480868

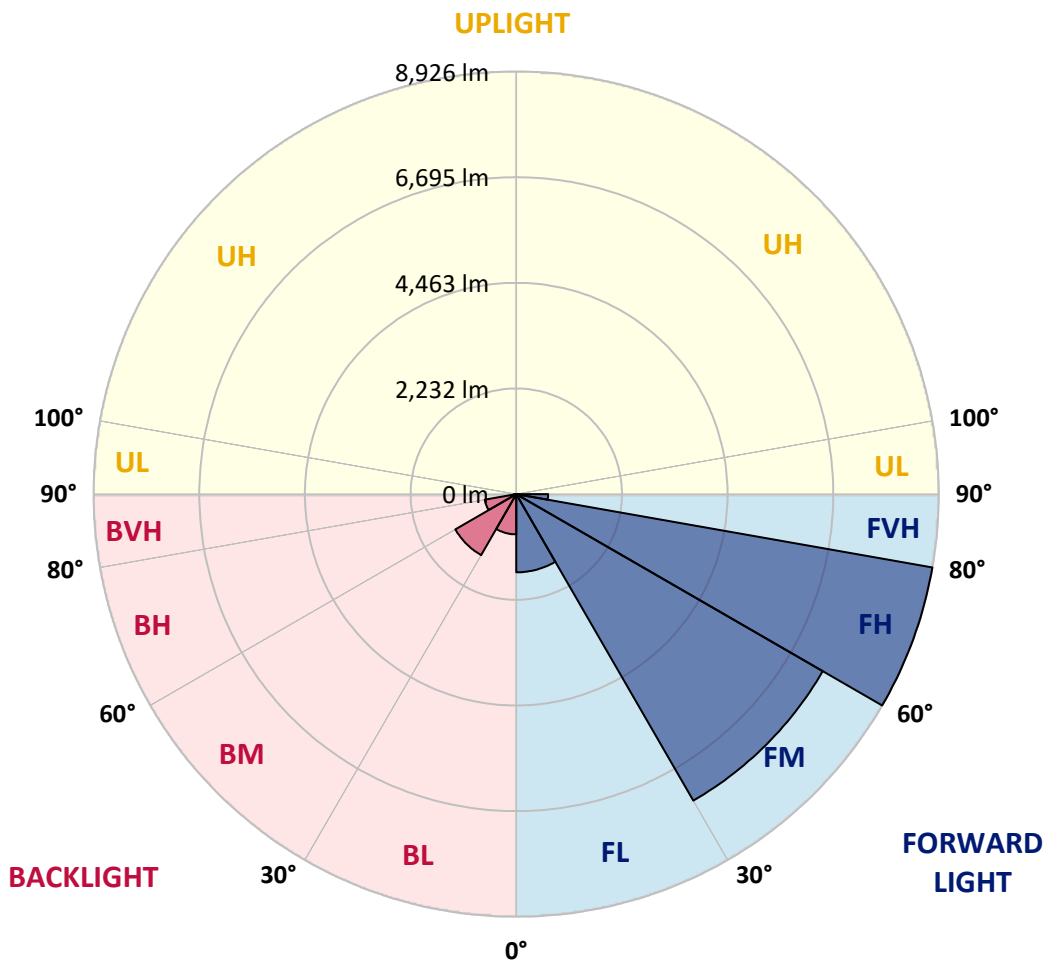
CATALOG NUMBER: IFLD-M-SA4B-735-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1651.2	7.6			
FM (30°-60°)	7475.2	34.3			
FH (60°-80°)	8926.3	41.0			G4/12000
FVH (80°-90°)	673.8	3.1			G4/750
BL (0°-30°)	849.4	3.9	B2/1000		
BM (30°-60°)	1486.5	6.8	B2/2500		
BH (60°-80°)	673.7	3.1	B2/1000		G2/1000
BVH (80°-90°)	53.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P480868

CATALOG NUMBER: IFLD-M-SA4B-735-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3878.7	3878.7	3878.7	3878.7	3878.7	3878.7	3878.7	3878.7	3878.7	3878.7	3878.7
2.5°	3971.3	3929.9	3937.2	3922.5	3937.2	3932.3	3925.0	3888.4	3925.0	3888.4	3878.7
5°	3917.7	3917.7	3942.0	3905.5	3910.4	3886.0	3910.4	3883.5	3859.2	3798.2	3781.1
7.5°	3900.6	3898.2	3900.6	3849.4	3873.8	3859.2	3834.8	3805.5	3756.8	3717.8	3661.7
10°	3783.6	3808.0	3781.1	3795.8	3815.3	3771.4	3769.0	3761.6	3739.7	3688.5	3654.4
12.5°	3720.2	3761.6	3776.3	3764.1	3781.1	3786.0	3771.4	3761.6	3734.8	3700.7	3603.2
15°	3747.0	3698.3	3739.7	3820.1	3803.1	3815.3	3817.7	3808.0	3795.8	3732.4	3669.0
17.5°	3754.3	3725.1	3812.8	3829.9	3851.8	3895.7	3866.5	3864.0	3817.7	3773.8	3681.2
20°	3771.4	3759.2	3829.9	3920.1	3922.5	3929.9	3944.5	3907.9	3883.5	3808.0	3666.6
22.5°	3834.8	3876.2	3942.0	3981.0	4003.0	4007.9	4007.9	3934.7	3907.9	3847.0	3734.8
25°	4024.9	3981.0	4073.7	4120.0	4088.3	4081.0	4063.9	3998.1	3968.9	3915.2	3766.5
27.5°	4163.9	4161.5	4215.1	4278.5	4193.1	4210.2	4149.3	4129.8	4063.9	4034.7	3822.6
30°	4354.0	4407.7	4405.2	4424.7	4312.6	4332.1	4254.1	4217.5	4181.0	4198.0	3988.4
32.5°	4597.8	4578.3	4610.0	4595.4	4483.3	4500.3	4407.7	4351.6	4363.8	4415.0	4215.1
35°	4753.9	4734.4	4746.5	4746.5	4712.4	4692.9	4653.9	4580.8	4639.3	4734.4	4468.6
37.5°	4922.1	4946.4	5017.1	5002.5	4958.6	4958.6	4953.8	4902.6	4978.1	5212.2	4873.3
40°	5070.8	5136.6	5180.5	5209.7	5260.9	5260.9	5302.4	5273.1	5409.6	5785.1	5368.2
42.5°	5226.8	5229.2	5468.2	5490.1	5604.7	5653.4	5685.1	5709.5	5965.5	6384.8	5897.2
45°	5426.7	5438.9	5648.6	5816.8	5994.7	6011.8	6131.3	6211.7	6526.2	7040.6	6472.6
47.5°	5690.0	5675.4	5899.7	6167.8	6389.7	6506.7	6650.5	6738.3	7125.9	7752.4	7101.5
50°	6036.2	5992.3	6121.5	6543.3	6804.1	6933.3	7189.3	7335.6	7789.0	8432.6	7533.0
52.5°	6457.9	6384.8	6487.2	6947.9	7240.5	7501.3	7745.1	7908.5	8381.4	8959.2	7852.4
55°	6904.1	6752.9	6782.2	7377.0	7798.8	8045.0	8379.0	8549.6	9032.3	9432.1	8171.8
57.5°	7345.3	7250.2	7191.7	7789.0	8464.3	8700.8	9007.9	9229.8	9639.4	9851.5	8442.4
60°	7715.9	7691.5	7596.4	8427.7	9168.8	9371.2	9693.0	9829.5	10139.1	10239.1	8447.2
62.5°	8020.6	7937.7	8088.9	8942.1	9885.6	10114.7	10468.2	10480.4	10699.8	10480.4	8198.6
65°	8259.5	8264.4	8505.7	9563.8	10714.5	11053.3	11338.6	11306.9	11165.5	10336.6	7611.0
67.5°	8476.5	8569.1	8922.6	10246.4	11779.8	12099.2	12416.1	11996.8	11292.2	9663.7	6462.8
70°	8647.1	8739.8	9485.8	11077.7	13035.3	13503.4	13574.1	12269.8	10709.6	8186.4	4875.7
72.5°	8627.6	8795.9	9805.1	11740.8	14149.4	14554.1	13983.7	11501.9	8922.6	5707.1	2845.0
73°	8669.1	8752.0	9778.3	11926.1	14488.3	14690.6	13793.5	11260.5	8415.5	5119.5	2406.2
75°	7869.5	8149.8	9293.2	11623.8	14125.0	14088.5	12701.3	9383.4	5982.5	2689.0	1165.3
77.5°	5821.6	5999.6	7323.4	9558.9	11594.5	11360.5	9580.8	5997.2	2840.1	997.1	629.0
80°	2845.0	2984.0	3881.1	5519.3	7581.8	7601.3	5946.0	3120.5	1216.5	563.1	429.1
82.5°	1421.3	1504.2	1865.0	2425.7	3729.9	3907.9	3015.7	1774.8	753.3	319.4	243.8
85°	928.8	987.3	1148.2	1187.2	1582.2	1669.9	1404.2	1384.7	490.0	173.1	197.5
87.5°	616.8	626.5	704.5	599.7	633.8	609.5	677.7	872.8	143.8	73.1	53.6
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: P480868
 CATALOG NUMBER: IFLD-M-SA4B-735-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3878.7	3878.7	3878.7	3878.7	3878.7	3878.7	3878.7	3878.7	3878.7	3878.7	3878.7
2.5°	3866.5	3832.3	3795.8	3744.6	3708.0	3651.9	3600.7	3578.8	3573.9	3576.4	3552.0
5°	3766.5	3717.8	3644.6	3539.8	3478.8	3386.2	3308.2	3266.8	3222.9	3230.2	3210.7
7.5°	3627.6	3573.9	3461.8	3339.9	3188.7	3057.1	2984.0	2881.6	2823.1	2779.2	2803.6
10°	3583.7	3491.0	3322.8	3154.6	2920.6	2747.5	2579.3	2462.3	2381.8	2303.8	2337.9
12.5°	3561.7	3469.1	3235.1	2986.4	2684.1	2420.8	2184.3	2040.5	1925.9	1857.7	1884.5
15°	3542.2	3427.7	3152.2	2801.1	2462.3	2116.1	1850.3	1660.2	1550.5	1484.7	1492.0
17.5°	3569.0	3405.7	3030.3	2620.7	2218.5	1847.9	1552.9	1355.5	1243.3	1201.9	1192.1
20°	3542.2	3381.3	2910.8	2440.3	1974.7	1591.9	1309.1	1145.8	1067.8	1033.7	1026.3
22.5°	3552.0	3322.8	2786.5	2240.4	1748.0	1377.4	1145.8	1021.5	960.5	943.5	948.3
25°	3598.3	3288.7	2662.2	2021.0	1523.7	1218.9	1041.0	945.9	902.0	884.9	889.8
27.5°	3632.4	3317.9	2550.0	1813.8	1333.5	1077.5	953.2	889.8	860.6	848.4	845.9
30°	3717.8	3335.0	2440.3	1628.5	1177.5	984.9	892.3	841.1	821.6	814.3	811.8
32.5°	3844.5	3366.7	2313.5	1457.8	1062.9	897.1	843.5	799.6	794.7	787.4	789.9
35°	4051.7	3476.4	2172.1	1311.6	953.2	838.6	792.3	763.1	763.1	763.1	770.4
37.5°	4349.2	3630.0	2045.4	1172.6	882.5	787.4	748.4	738.7	733.8	741.1	746.0
40°	4731.9	3815.3	1943.0	1062.9	821.6	753.3	719.2	714.3	711.9	709.4	714.3
42.5°	5151.2	4051.7	1855.2	977.6	777.7	716.7	692.4	687.5	677.7	682.6	689.9
45°	5568.1	4344.3	1777.2	909.3	748.4	697.2	663.1	660.7	655.8	653.4	665.5
47.5°	6031.3	4632.0	1752.8	867.9	726.5	668.0	643.6	641.2	626.5	624.1	633.8
50°	6392.1	4844.1	1779.6	848.4	694.8	646.0	629.0	616.8	604.6	592.4	592.4
52.5°	6640.8	4990.3	1799.2	833.8	677.7	616.8	594.8	590.0	577.8	565.6	560.7
55°	6865.1	5078.1	1804.0	836.2	660.7	582.7	568.0	565.6	558.3	538.8	533.9
57.5°	6940.6	5041.5	1706.5	814.3	650.9	560.7	541.2	546.1	536.3	519.3	516.8
60°	6933.3	4788.0	1484.7	785.0	629.0	536.3	512.0	526.6	526.6	507.1	504.6
62.5°	6511.6	4202.9	1214.1	728.9	604.6	512.0	485.1	507.1	514.4	502.2	499.8
65°	5636.4	3422.8	1014.2	672.9	568.0	485.1	458.3	482.7	494.9	490.0	487.6
67.5°	4663.7	2618.3	843.5	599.7	521.7	448.6	426.6	443.7	451.0	453.4	455.9
70°	3296.0	1743.1	704.5	519.3	458.3	409.6	385.2	387.6	385.2	392.5	392.5
72.5°	1791.8	1004.4	572.9	441.3	394.9	355.9	338.9	326.7	326.7	324.2	324.2
73°	1533.4	902.0	546.1	429.1	377.9	346.2	326.7	316.9	316.9	314.5	312.0
75°	860.6	660.7	468.1	368.1	326.7	302.3	287.7	273.0	270.6	270.6	270.6
77.5°	565.6	514.4	373.0	295.0	263.3	241.3	236.5	221.8	221.8	221.8	219.4
80°	424.2	404.7	287.7	224.3	202.3	185.3	180.4	170.7	168.2	158.5	160.9
82.5°	282.8	319.4	209.7	158.5	136.5	126.8	126.8	124.3	117.0	104.8	104.8
85°	224.3	260.9	151.1	97.5	80.4	68.3	70.7	68.3	65.8	53.6	51.2
87.5°	41.4	104.8	43.9	26.8	19.5	12.2	12.2	7.3	4.9	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)