

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: P510399

Luminaire Tested: **CST-CA10-210-722-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-210-722-U-T3
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28502 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

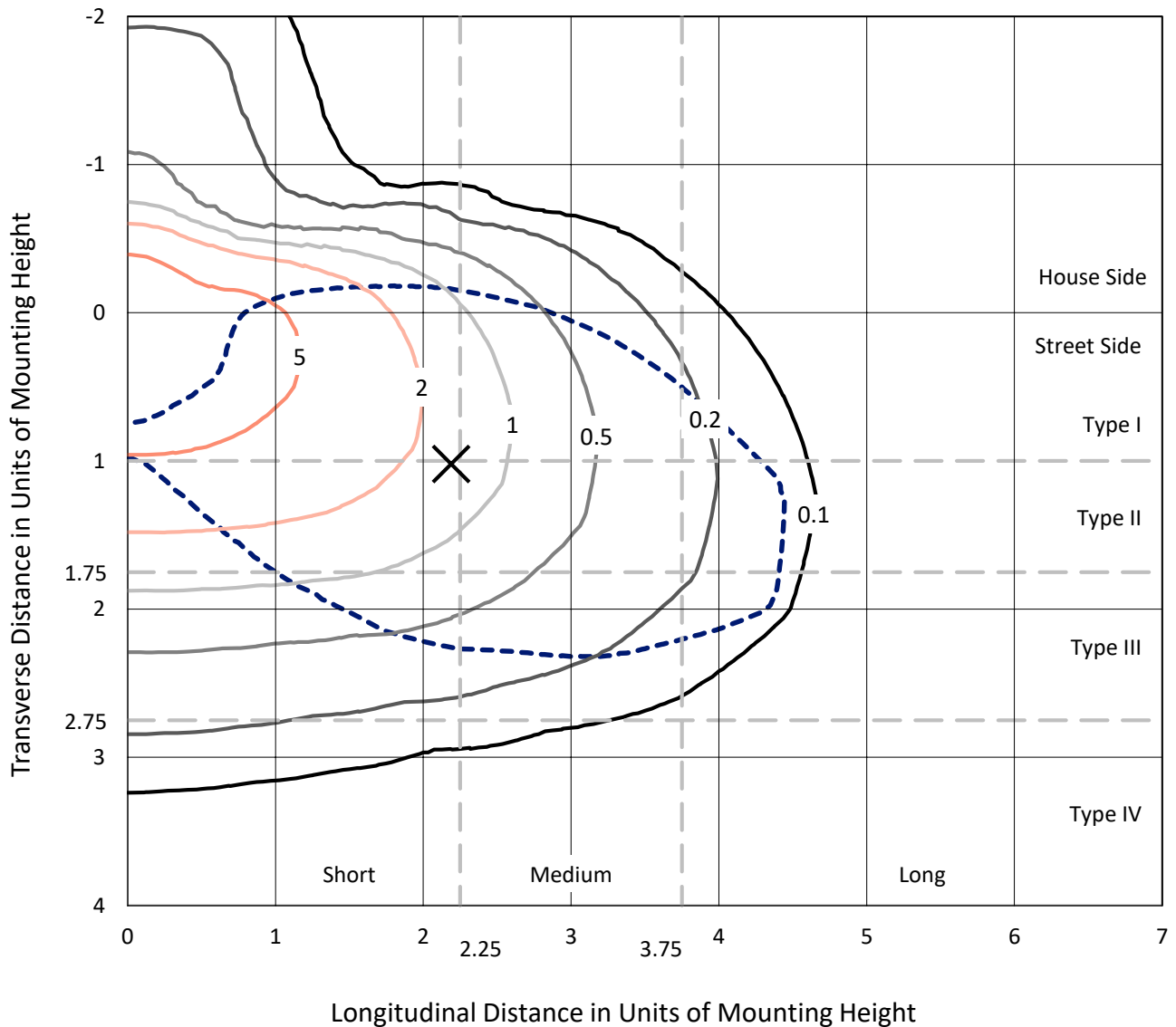
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: CST-CA10-210-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

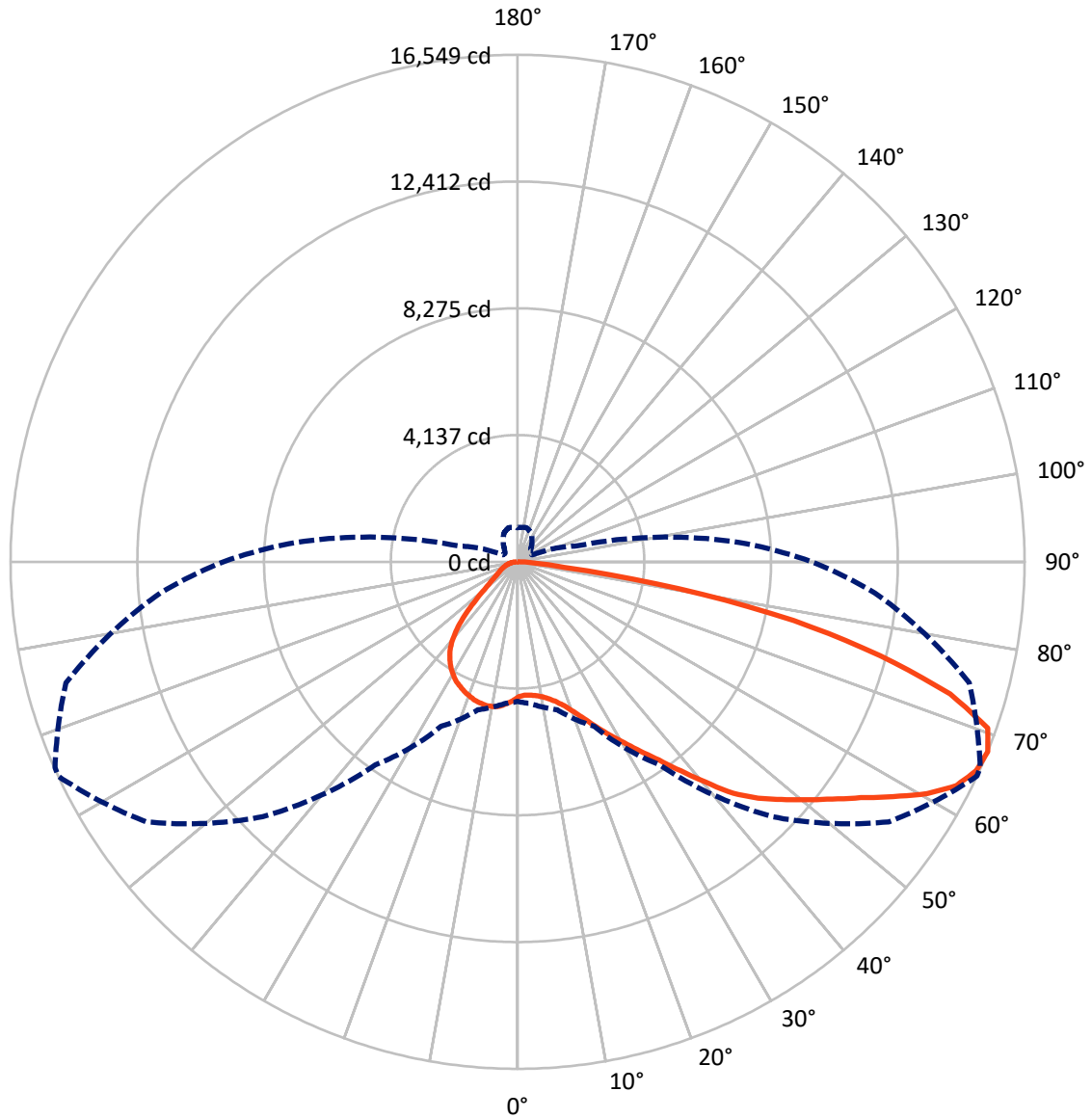
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - N/A

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CATALOG NUMBER: CST-CA10-210-722-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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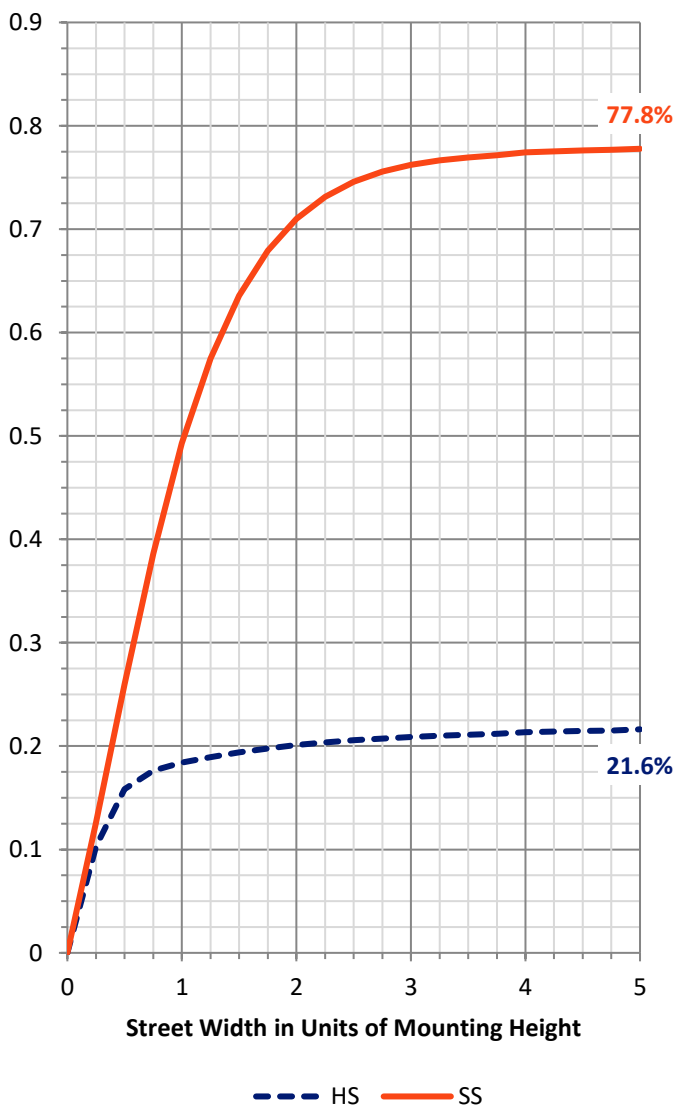
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6295.7	0.0	6295.7
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	22206.3	0.0	22206.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	28502.0	0.0	28502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.6	1.5
10°-20°	1370.5	4.8
20°-30°	2372.4	8.3
30°-40°	3486.1	12.2
40°-50°	4711.8	16.5
50°-60°	5794.2	20.3
60°-70°	6208.8	21.8
70°-80°	3661.9	12.8
80°-90°	457.7	1.6
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°	28502.0	100.0
0°-180°	28502.0	100.0

Coefficient of Utilization

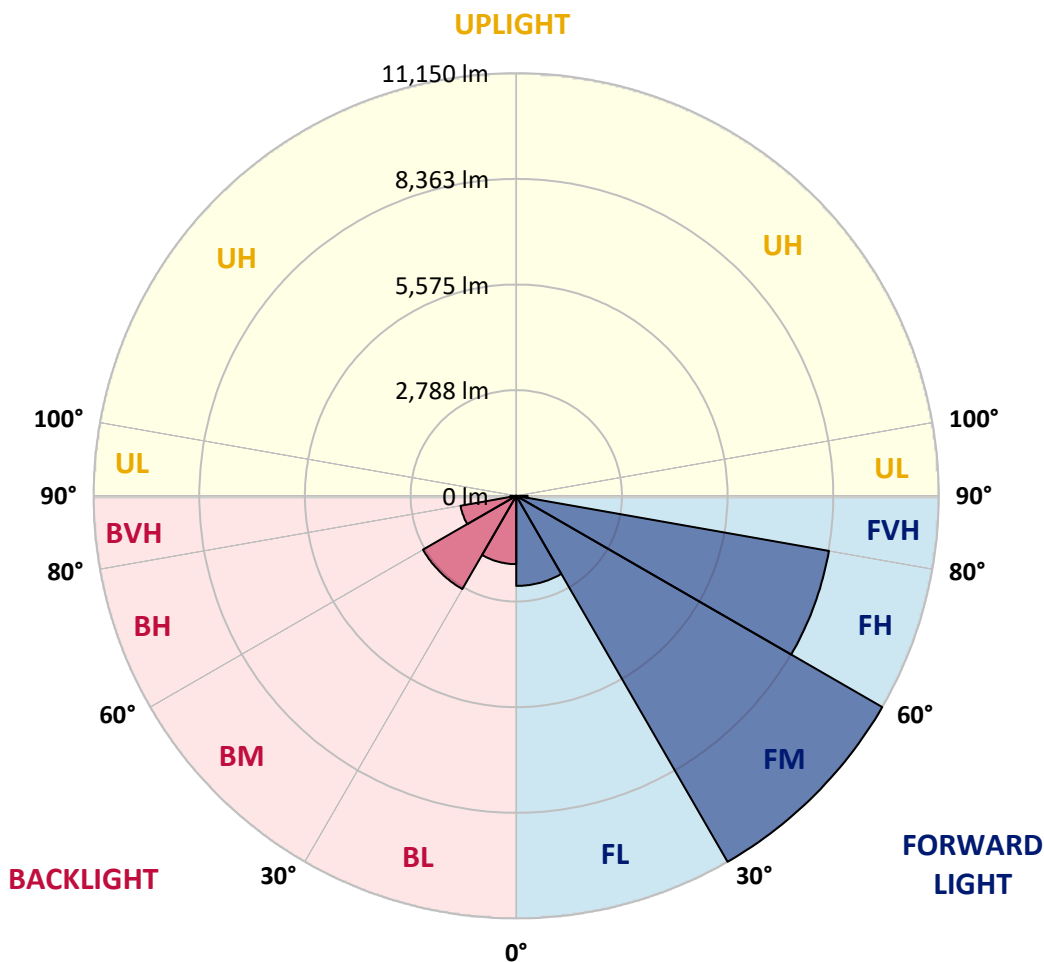


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2378.3	8.3			
FM (30°-60°)	11150.2	39.1			
FH (60°-80°)	8377.7	29.4			G4/12000
FVH (80°-90°)	300.1	1.1			G3/500
BL (0°-30°)	1803.3	6.3	B3/2500		
BM (30°-60°)	2841.9	10.0	B3/5000		
BH (60°-80°)	1493.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	157.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CATALOG NUMBER: CST-CA10-210-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5
2.5°	4319.4	4311.2	4307.8	4318.8	4326.9	4336.2	4349.6	4362.4	4364.1	4381.0	4403.1
5°	4371.7	4364.7	4357.2	4355.4	4352.5	4351.9	4355.4	4369.9	4373.4	4389.7	4437.3
7.5°	4487.9	4480.9	4467.0	4461.8	4446.1	4418.2	4404.8	4412.4	4414.1	4433.9	4493.1
10°	4677.3	4655.8	4639.0	4621.6	4572.2	4528.0	4495.5	4481.5	4478.6	4497.8	4566.4
12.5°	4903.4	4885.4	4866.8	4820.9	4758.1	4678.5	4621.0	4589.0	4586.7	4603.0	4654.7
15°	5142.2	5142.2	5129.4	5074.8	5013.2	4881.3	4792.4	4738.9	4742.4	4755.2	4779.0
17.5°	5450.8	5425.2	5419.4	5357.2	5288.7	5168.4	5027.2	4941.7	4945.8	4951.6	4933.6
20°	5764.6	5757.0	5748.3	5707.1	5644.9	5490.3	5331.7	5219.5	5220.1	5199.2	5119.0
22.5°	6179.5	6154.5	6160.9	6114.4	6030.2	5871.5	5689.1	5556.0	5564.7	5534.5	5389.2
25°	6591.5	6566.5	6553.2	6521.8	6449.1	6298.6	6081.9	5959.8	5949.4	5894.8	5683.8
27.5°	7002.9	6988.4	6999.5	6961.7	6902.4	6734.5	6535.7	6400.3	6407.3	6369.5	6055.2
30°	7428.9	7412.6	7460.9	7399.8	7363.2	7199.9	7009.3	6850.1	6855.9	6869.9	6517.1
32.5°	7750.2	7769.4	7853.7	7846.7	7839.7	7657.8	7457.4	7369.0	7377.8	7426.6	7065.7
35°	8060.6	8062.3	8180.8	8270.3	8308.1	8155.9	7947.8	7944.9	8001.9	8150.6	7830.4
37.5°	8318.0	8312.2	8470.2	8609.1	8712.6	8594.6	8480.1	8658.5	8710.2	9018.8	8600.4
40°	8458.6	8470.8	8674.2	8847.4	9050.8	8995.0	9007.2	9463.4	9590.6	9860.8	9176.3
42.5°	8359.8	8397.0	8713.7	9067.0	9373.9	9448.2	9693.5	10332.7	10386.7	10435.5	9742.9
45°	8194.2	8233.1	8584.1	9154.8	9640.6	9955.0	10376.3	11001.5	11060.8	11006.2	10214.1
47.5°	8021.6	8061.7	8452.8	9119.3	9861.4	10464.0	10983.5	11593.1	11668.7	11499.6	10667.4
50°	7802.5	7864.7	8292.4	9044.4	10040.4	11013.2	11558.2	12202.1	12237.0	11992.9	11010.8
52.5°	7532.9	7601.5	8064.0	8915.9	10180.4	11396.7	12139.9	12862.8	12859.4	12569.4	11403.7
55°	7249.3	7311.5	7788.0	8713.7	10258.9	11691.9	12604.8	13591.0	13632.8	13389.9	11759.3
57.5°	6886.1	6942.5	7462.0	8441.8	10177.5	11942.4	13357.9	14456.2	14477.2	13961.1	12042.3
60°	6405.0	6488.1	7009.9	8096.0	9943.9	12232.3	14187.8	15366.3	15391.8	14523.1	12224.2
62.5°	5876.8	5909.9	6441.6	7563.7	9604.0	12456.1	14763.1	16078.1	16040.9	14962.4	12278.8
65°	5232.9	5259.0	5719.3	6879.2	8972.3	12333.4	14969.4	16444.2	16398.3	15238.4	12110.9
67.5°	4558.8	4639.6	5001.0	5929.6	8090.8	11767.4	14795.0	16549.4	16526.1	15259.3	11709.9
70°	3683.6	3712.1	4038.7	4830.8	6750.7	10634.3	14213.9	16279.8	16261.7	14792.1	10891.1
72.5°	2597.6	2569.7	2728.3	3349.5	4876.1	8459.2	12135.9	14764.8	14795.0	13232.4	9484.3
75°	1379.0	1432.4	1679.4	2050.7	2764.3	5438.0	9675.5	12219.6	12209.1	11064.9	7496.9
77.5°	734.5	733.4	903.0	1061.7	1353.4	2498.8	6381.7	9215.2	9266.4	8573.1	5147.5
80°	352.7	366.1	376.6	431.8	674.7	1154.7	2669.6	5343.9	5692.5	5113.2	2445.3
82.5°	282.4	283.6	284.7	272.5	278.9	470.1	1028.6	1546.3	1602.1	1287.7	788.6
85°	209.2	196.4	194.7	165.0	186.5	282.4	518.9	660.1	627.6	610.7	445.1
87.5°	84.3	79.0	76.7	72.1	72.1	106.3	183.0	238.8	238.3	217.3	149.3
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°	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5
2.5°	4420.5	4441.4	4490.2	4532.1	4547.8	4586.1	4622.1	4643.1	4657.6	4666.3	4705.8
5°	4466.4	4508.2	4586.1	4644.8	4701.7	4772.6	4818.6	4847.6	4863.9	4873.2	4901.7
7.5°	4536.7	4579.1	4661.7	4751.7	4804.0	4862.1	4891.8	4912.7	4923.2	4920.2	4942.9
10°	4599.5	4641.3	4723.8	4793.0	4822.6	4855.7	4871.4	4876.1	4876.7	4879.0	4901.7
12.5°	4684.9	4710.5	4754.6	4800.0	4793.6	4794.7	4808.1	4802.3	4788.9	4786.6	4801.7
15°	4776.7	4777.3	4780.8	4770.9	4730.8	4713.4	4694.8	4679.1	4642.5	4640.2	4664.0
17.5°	4891.8	4864.5	4801.1	4733.7	4638.4	4572.7	4506.5	4479.2	4434.4	4425.7	4437.3
20°	5040.0	4983.0	4829.0	4661.7	4483.3	4365.9	4285.7	4204.9	4142.7	4127.6	4138.7
22.5°	5252.6	5140.5	4864.5	4584.9	4308.9	4108.4	3952.7	3855.7	3751.1	3697.6	3702.8
25°	5509.5	5334.0	4926.1	4487.9	4103.8	3814.4	3561.6	3366.9	3249.0	3170.5	3191.4
27.5°	5846.0	5604.8	4999.9	4392.0	3848.7	3438.4	3071.7	2807.9	2687.6	2650.4	2626.0
30°	6235.9	5932.0	5077.7	4250.2	3573.2	2973.0	2503.4	2283.8	2146.0	2124.0	2105.4
32.5°	6757.7	6344.0	5223.6	4096.2	3244.3	2507.5	1997.9	1745.1	1713.7	1695.7	1691.6
35°	7430.6	6883.8	5376.4	3896.3	2815.5	1961.8	1511.5	1374.9	1359.8	1379.6	1381.3
37.5°	8144.8	7469.6	5559.5	3670.9	2322.1	1463.8	1156.4	1061.7	1078.5	1140.1	1154.1
40°	8628.3	7855.4	5725.7	3364.6	1712.5	1063.4	841.4	821.1	914.1	993.1	1009.4
42.5°	9092.0	8147.7	5793.1	2959.6	1221.5	757.2	679.3	749.0	879.2	965.8	977.4
45°	9487.8	8487.7	5623.4	2473.8	828.1	632.8	650.8	747.3	892.0	987.9	996.6
47.5°	9864.3	8765.4	5391.5	1949.0	653.2	609.0	650.3	763.0	920.5	1011.1	1016.4
50°	10224.0	8977.0	4995.8	1483.0	611.9	598.0	655.5	787.4	936.2	993.1	990.8
52.5°	10490.8	9086.2	4574.5	1197.1	595.6	589.2	669.4	818.2	939.1	973.4	971.0
55°	10686.6	9065.3	4297.9	980.3	582.3	585.8	692.1	841.4	967.0	1018.7	1016.9
57.5°	10704.6	8970.6	3983.5	828.1	566.0	585.2	716.5	874.0	1106.4	1201.7	1172.7
60°	10683.1	8813.7	3669.7	727.0	548.0	588.7	742.1	971.6	1307.5	1382.5	1362.1
62.5°	10577.3	8521.4	3199.6	660.1	532.3	601.4	761.3	1048.9	1297.6	1306.3	1277.3
65°	10250.8	8130.3	2582.4	592.7	516.6	610.2	776.9	1069.2	1191.9	1164.0	1149.4
67.5°	9604.6	7256.9	1992.0	531.1	496.3	608.4	823.4	1040.2	1151.8	1131.4	1112.8
70°	8686.4	6264.4	1383.0	467.8	462.0	597.4	811.8	1050.1	1132.6	1101.2	1076.2
72.5°	7256.9	4914.4	879.8	416.1	410.8	571.2	782.8	1043.7	1119.8	1105.8	1071.6
75°	5464.2	3430.3	559.0	359.7	365.5	523.6	736.3	1009.4	1113.4	1069.8	1004.2
77.5°	3440.2	1693.4	434.7	305.7	314.4	451.5	636.3	881.5	1068.7	1042.5	958.2
80°	1301.1	687.5	339.9	248.1	255.7	351.0	521.8	725.2	983.8	1026.8	990.8
82.5°	599.1	430.0	255.1	199.3	202.2	255.7	389.3	536.9	832.7	942.6	1032.6
85°	349.8	281.8	170.3	133.1	138.3	151.1	219.1	327.7	539.8	718.8	804.3
87.5°	119.1	98.2	66.2	56.4	54.6	62.2	52.9	107.5	160.4	282.4	322.5
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)