

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: P510398

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

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510398  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-16)  
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-HSS  
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: 26528 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

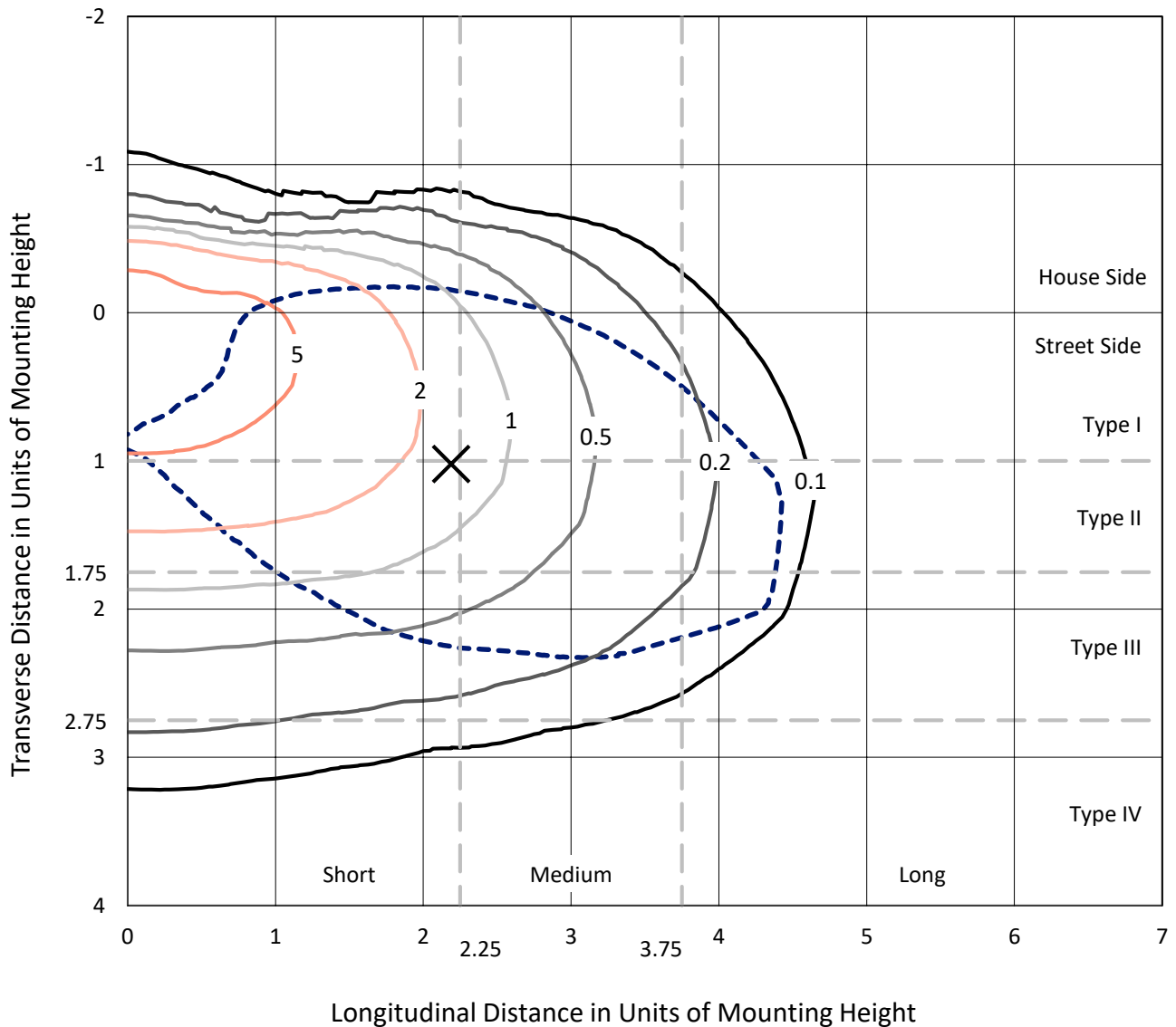
Input Watts (W): 212.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

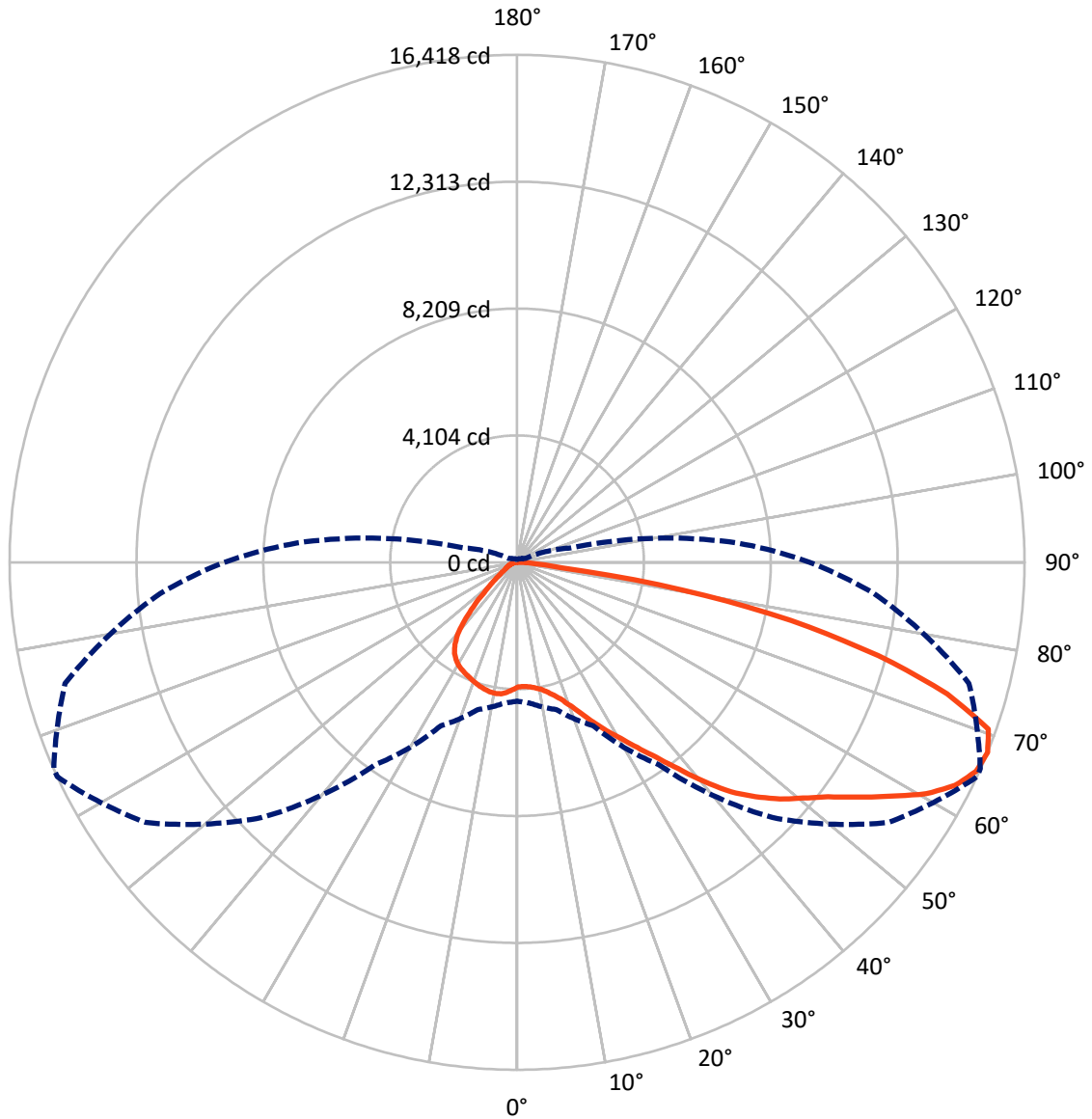
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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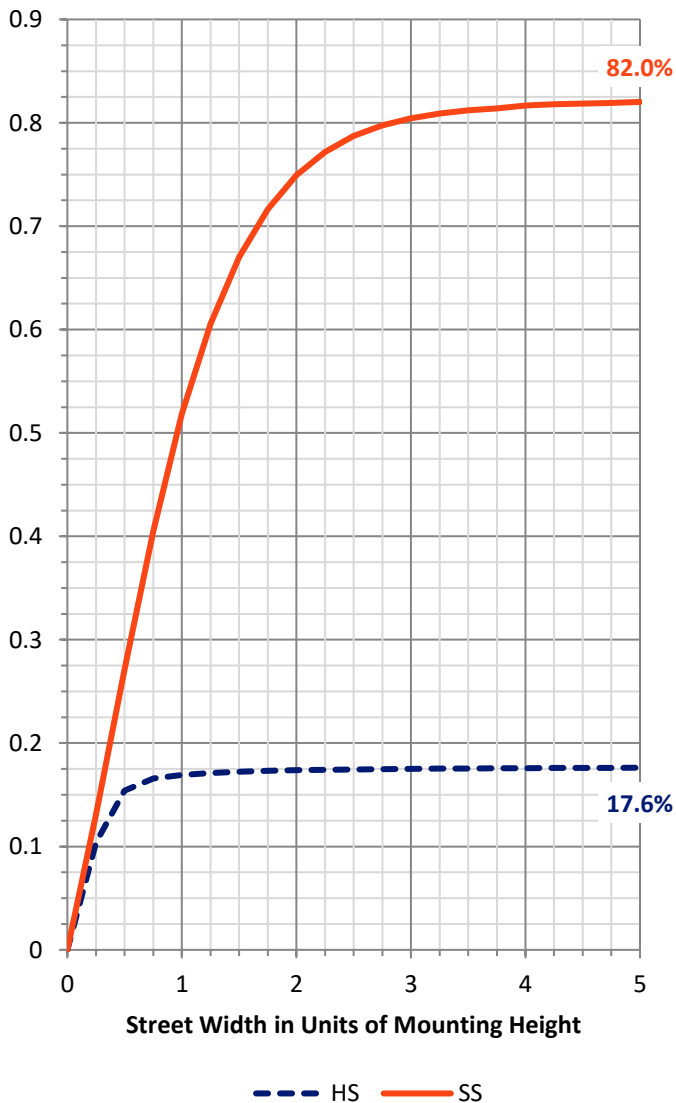
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4741.2	0.0	4741.2
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	21786.8	0.0	21786.8
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	26528.0	0.0	26528.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	398.8	1.5
10°-20°	1231.3	4.6
20°-30°	2136.0	8.1
30°-40°	3222.1	12.1
40°-50°	4467.7	16.8
50°-60°	5514.8	20.8
60°-70°	5875.9	22.1
70°-80°	3362.3	12.7
80°-90°	319.0	1.2
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°	26528.0	100.0
0°-180°	26528.0	100.0

**Coefficient of Utilization**



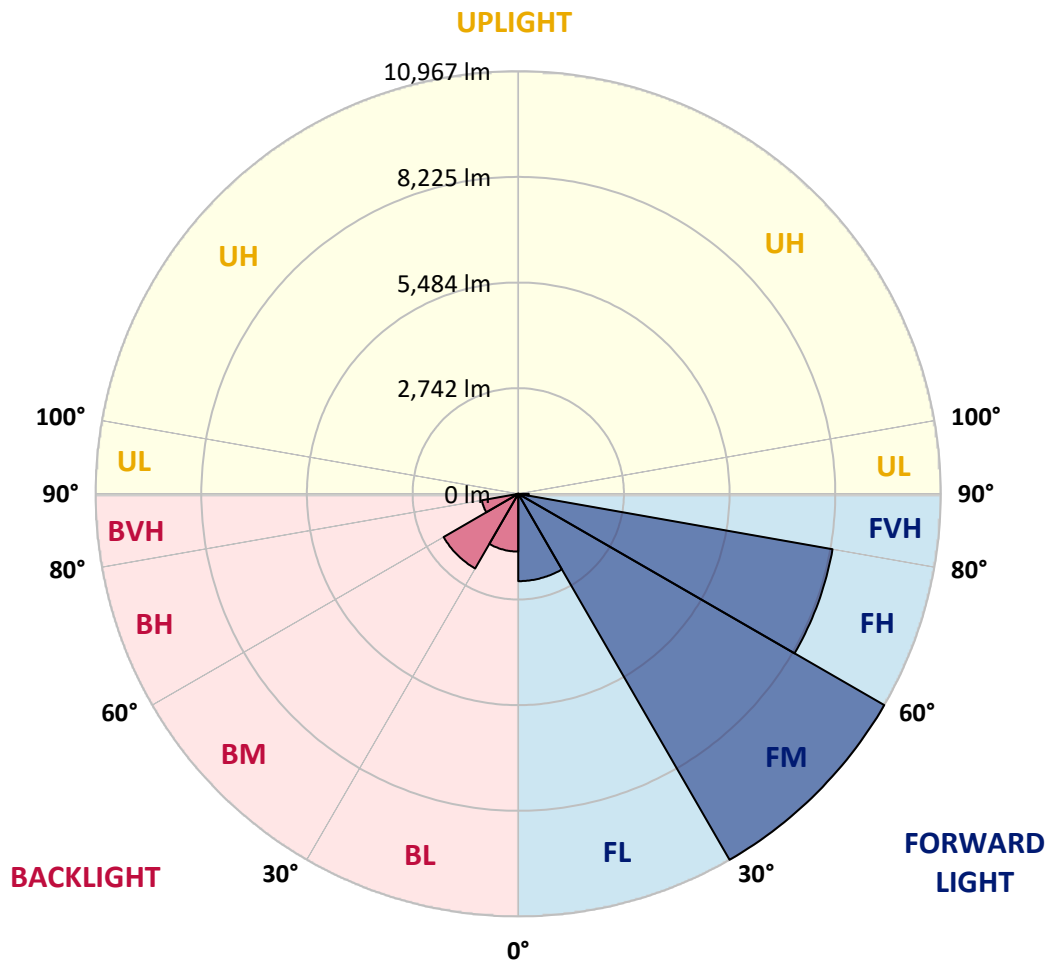
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2265.8	8.5			
FM (30°-60°)	10967.1	41.3			
FH (60°-80°)	8281.3	31.2			G4/12000
FVH (80°-90°)	272.6	1.0			G3/500
BL (0°-30°)	1500.2	5.7	B3/2500		
BM (30°-60°)	2237.6	8.4	B2/2500		
BH (60°-80°)	956.9	3.6	B2/1000		G2/1000
BVH (80°-90°)	46.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4031.1	4031.1	4031.1	4031.1	4031.1	4031.1	4031.1	4031.1	4031.1	4031.1	4031.1
2.5°	3992.2	3986.9	3982.3	3990.4	3995.1	4002.6	4013.7	4021.2	4023.5	4030.5	4039.2
5°	4056.1	4055.5	4049.1	4045.6	4035.8	4032.3	4034.6	4043.9	4044.5	4053.2	4080.5
7.5°	4181.6	4180.4	4164.8	4157.8	4136.9	4113.6	4096.2	4097.9	4097.3	4106.1	4142.7
10°	4371.0	4361.7	4339.7	4318.2	4277.5	4233.9	4201.9	4172.9	4172.9	4185.7	4226.4
12.5°	4584.9	4597.7	4567.5	4534.9	4466.9	4388.5	4332.7	4300.2	4296.7	4303.1	4332.1
15°	4850.5	4850.5	4830.1	4783.6	4723.8	4614.5	4499.5	4458.2	4452.4	4465.8	4464.0
17.5°	5149.7	5158.4	5120.1	5096.8	5005.0	4884.2	4740.0	4668.6	4668.6	4659.9	4619.8
20°	5531.5	5483.9	5487.9	5449.6	5382.2	5206.7	5060.2	4956.2	4955.1	4937.6	4824.9
22.5°	5946.4	5920.3	5897.6	5863.9	5770.9	5614.0	5410.6	5307.8	5305.5	5262.5	5095.1
25°	6355.5	6375.3	6350.3	6288.7	6220.7	6049.9	5825.5	5724.4	5723.9	5652.4	5415.3
27.5°	6776.2	6797.7	6789.6	6733.8	6643.2	6509.5	6297.4	6165.5	6157.4	6110.9	5812.8
30°	7241.1	7221.9	7246.9	7223.1	7177.8	6959.9	6768.1	6614.7	6634.4	6620.5	6264.3
32.5°	7579.3	7591.5	7673.4	7675.8	7628.1	7466.6	7232.4	7138.3	7169.6	7151.0	6819.2
35°	7885.0	7904.7	8010.5	8114.5	8149.4	7972.7	7734.5	7728.7	7769.3	7882.6	7584.0
37.5°	8147.6	8161.6	8309.8	8445.2	8557.9	8437.0	8263.8	8470.1	8530.0	8761.9	8373.1
40°	8305.1	8323.1	8514.9	8705.5	8906.5	8863.5	8847.3	9335.4	9391.8	9595.7	8949.0
42.5°	8216.2	8251.6	8571.3	8919.9	9215.7	9301.7	9524.3	10151.8	10216.3	10233.8	9515.0
45°	8057.6	8101.7	8459.1	9023.3	9505.7	9781.7	10205.3	10817.2	10852.7	10803.3	9983.9
47.5°	7886.7	7933.8	8333.0	8992.5	9738.7	10340.1	10813.7	11443.6	11468.6	11317.0	10456.3
50°	7692.6	7736.2	8165.6	8920.5	9914.2	10867.2	11439.0	11985.2	12078.8	11778.9	10823.6
52.5°	7456.7	7503.2	7958.8	8807.8	10068.2	11258.3	11990.5	12597.1	12603.5	12356.5	11237.3
55°	7151.0	7231.8	7699.0	8612.5	10148.9	11594.1	12471.0	13406.6	13447.9	13209.0	11583.7
57.5°	6811.1	6881.4	7386.4	8352.2	10076.3	11849.2	13243.9	14274.8	14269.5	13790.1	11886.4
60°	6361.9	6411.9	6979.0	8011.6	9842.1	12157.8	14048.7	15205.1	15195.8	14359.6	12081.1
62.5°	5785.4	5835.4	6368.9	7477.6	9498.1	12364.7	14595.0	15901.8	15875.1	14773.9	12141.0
65°	5117.2	5206.7	5669.8	6784.4	8889.7	12228.7	14858.8	16312.1	16269.1	15090.0	11998.0
67.5°	4490.8	4566.9	4933.6	5830.2	7991.9	11677.2	14672.8	16417.9	16405.1	15136.0	11594.1
70°	3604.0	3631.9	3967.8	4735.4	6649.5	10496.4	14030.1	16173.8	16179.6	14712.9	10782.9
72.5°	2466.8	2534.8	2684.1	3290.2	4838.8	8347.5	12092.7	14556.0	14557.2	13192.8	9394.7
75°	1326.7	1431.8	1606.2	1906.6	2705.0	5356.6	9711.4	12078.2	12100.9	10999.7	7467.2
77.5°	657.8	695.6	796.7	1019.8	1240.1	2527.2	6245.7	9066.3	9120.4	8443.4	5092.8
80°	301.0	307.4	315.0	313.2	474.8	1108.7	2681.2	5444.9	5461.2	5021.9	2325.0
82.5°	235.3	234.2	237.7	216.2	217.3	427.7	928.0	1426.0	1520.7	1197.1	737.4
85°	142.4	141.8	152.8	118.5	145.9	231.3	468.4	568.9	575.9	468.4	381.8
87.5°	54.0	52.3	48.2	42.4	48.8	65.1	162.1	209.2	204.5	145.3	131.9
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°	4031.1	4031.1	4031.1	4031.1	4031.1	4031.1	4031.1	4031.1	4031.1	4031.1	4031.1
2.5°	4046.8	4065.4	4099.7	4125.8	4134.5	4162.4	4189.2	4193.8	4213.0	4220.5	4245.5
5°	4097.3	4128.7	4182.2	4217.6	4233.3	4279.8	4310.0	4325.1	4319.9	4322.8	4350.7
7.5°	4171.1	4200.8	4243.8	4286.8	4294.3	4302.5	4299.6	4297.2	4276.9	4259.5	4285.6
10°	4238.6	4266.4	4293.2	4299.6	4261.2	4239.7	4201.4	4171.7	4132.2	4114.2	4135.1
12.5°	4333.3	4339.1	4312.9	4278.1	4195.6	4118.8	4056.7	4002.6	3953.8	3920.1	3948.0
15°	4433.2	4410.6	4334.4	4232.7	4104.9	3995.1	3893.4	3803.3	3722.5	3702.8	3710.3
17.5°	4565.7	4504.1	4350.7	4179.9	3981.1	3810.3	3679.5	3565.6	3459.9	3415.7	3411.6
20°	4727.3	4627.9	4383.8	4113.0	3834.7	3607.5	3405.3	3235.0	3089.1	2969.4	2972.3
22.5°	4937.6	4793.5	4433.8	4043.3	3672.6	3369.8	3075.8	2786.4	2546.4	2443.0	2417.4
25°	5215.4	5000.4	4504.7	3980.0	3491.3	3067.6	2652.1	2243.6	1989.7	1889.2	1878.1
27.5°	5561.1	5278.1	4612.8	3909.7	3297.2	2709.1	2111.7	1711.3	1478.3	1372.6	1337.1
30°	5954.0	5620.4	4723.8	3836.4	3062.4	2248.3	1610.2	1218.0	979.2	884.4	872.2
32.5°	6462.4	6053.9	4888.8	3721.4	2719.6	1767.1	1123.3	760.1	598.0	557.3	545.7
35°	7184.7	6640.2	5092.8	3576.1	2279.1	1234.3	696.2	445.1	358.5	338.2	334.1
37.5°	7858.2	7215.5	5298.5	3334.9	1730.5	770.5	398.1	285.3	266.1	266.7	267.9
40°	8392.3	7608.9	5464.7	3017.7	1138.4	437.6	276.6	237.1	237.7	235.9	234.8
42.5°	8867.6	7922.7	5539.6	2548.7	659.6	292.9	240.0	218.5	213.3	215.0	213.8
45°	9261.0	8242.9	5394.4	2021.7	388.8	262.7	226.6	202.8	197.0	206.3	207.5
47.5°	9674.8	8546.8	5171.8	1523.1	315.5	249.9	214.4	191.2	188.3	199.9	201.1
50°	10022.8	8767.1	4792.3	1147.7	301.0	235.9	203.4	179.6	179.0	189.4	189.4
52.5°	10314.0	8900.2	4342.0	886.2	291.1	223.7	192.3	168.5	168.5	172.0	172.6
55°	10519.1	8873.4	4073.5	697.3	280.7	212.1	180.7	158.1	151.1	148.8	149.9
57.5°	10556.3	8802.5	3762.1	543.9	268.5	201.1	170.3	145.9	133.1	131.3	130.7
60°	10532.5	8646.8	3406.4	454.4	254.5	190.6	159.8	133.1	120.3	116.2	117.4
62.5°	10433.1	8370.8	2995.6	398.6	240.6	182.5	148.2	124.4	112.7	107.5	107.5
65°	10133.3	7975.6	2385.4	349.2	223.1	173.7	138.9	120.9	108.1	102.3	101.1
67.5°	9474.3	7155.7	1792.7	306.2	206.3	164.5	137.7	120.3	105.8	97.6	96.5
70°	8590.4	6146.9	1223.8	269.1	187.7	155.7	137.1	120.9	103.4	93.0	91.8
72.5°	7171.4	4845.8	704.9	234.2	169.1	147.6	134.8	121.5	99.4	86.6	84.8
75°	5388.6	3398.9	413.7	201.1	151.1	135.4	128.4	118.0	93.0	79.0	77.3
77.5°	3240.8	1587.0	311.5	166.8	129.6	119.1	114.5	108.1	84.8	73.2	71.5
80°	1188.9	602.6	244.6	133.7	102.9	103.4	98.8	94.7	77.3	67.4	66.2
82.5°	518.3	368.4	180.7	101.7	80.8	92.4	81.4	77.9	66.2	60.4	58.1
85°	314.4	219.7	116.2	69.2	55.8	62.8	56.9	59.9	51.1	47.7	45.9
87.5°	104.0	65.7	51.7	33.7	27.9	26.1	25.6	30.8	29.1	26.7	26.7
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)