

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: P510758

Luminaire Tested: **CST-CA8-330-722-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510758  
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-CA8-330-722-U-T3-HSS  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37205 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

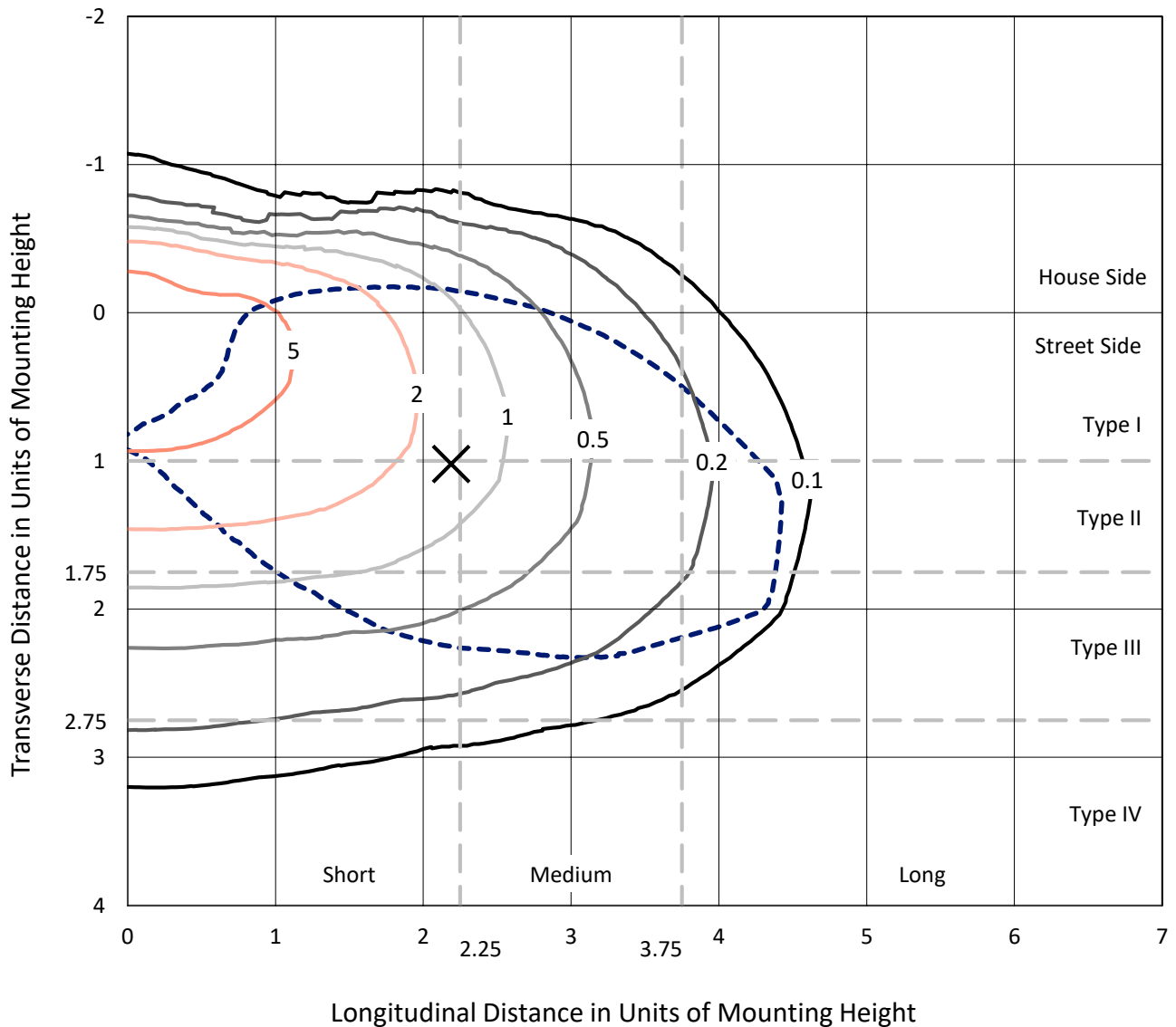
Input Watts (W): 331.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

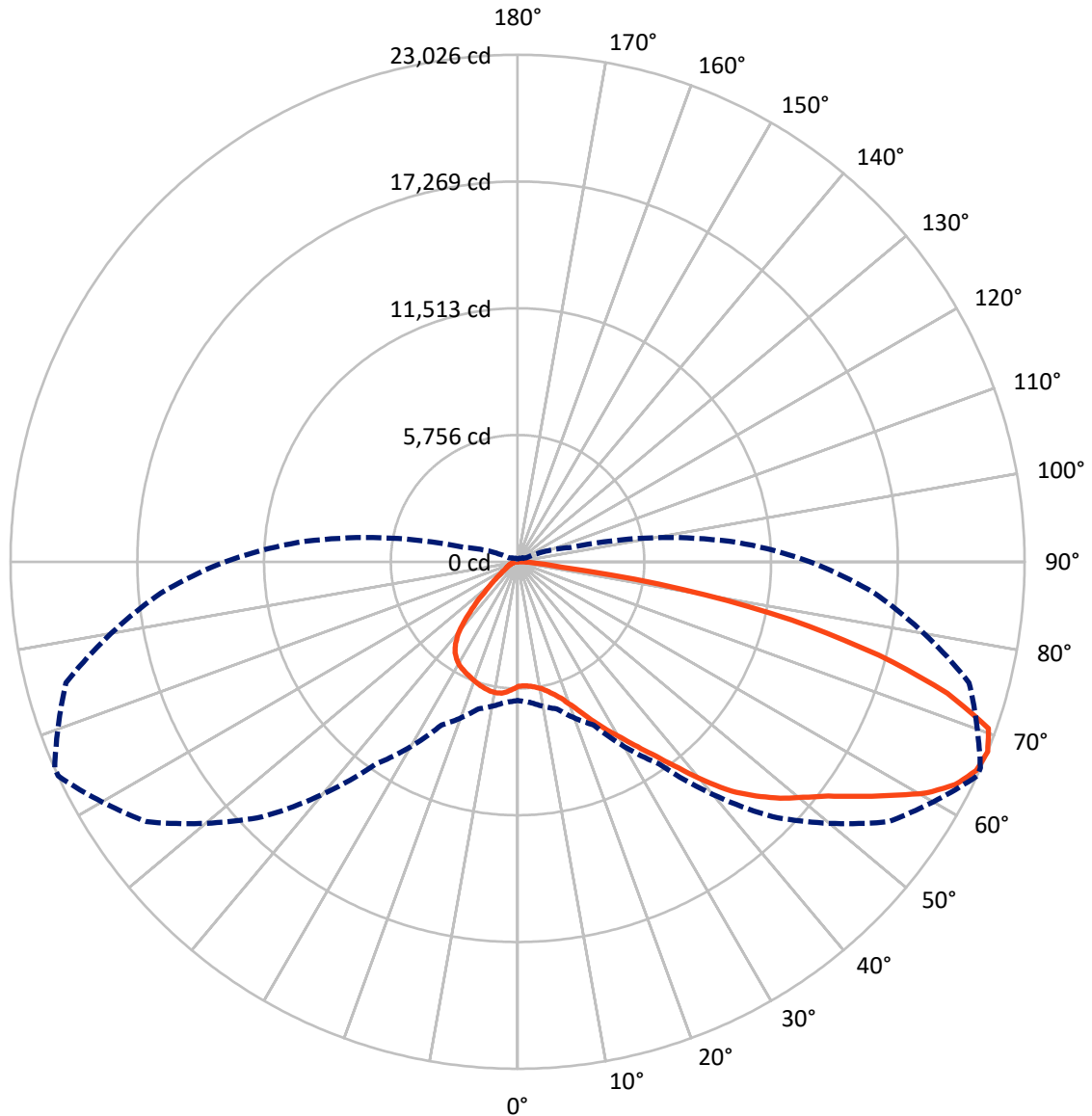
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 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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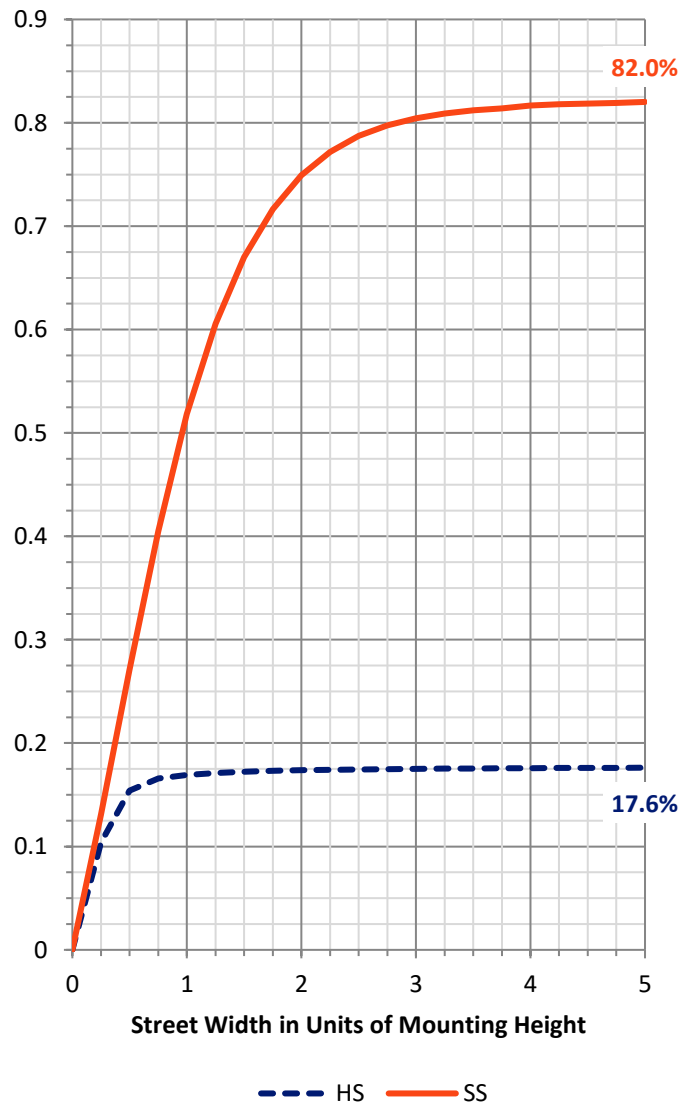
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6649.4	0.0	6649.4
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	30555.6	0.0	30555.6
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	37205.0	0.0	37205.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	559.3	1.5
10°-20°	1726.8	4.6
20°-30°	2995.7	8.1
30°-40°	4519.0	12.1
40°-50°	6265.9	16.8
50°-60°	7734.4	20.8
60°-70°	8240.9	22.1
70°-80°	4715.6	12.7
80°-90°	447.4	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°	37205.0	100.0
0°-180°	37205.0	100.0

**Coefficient of Utilization**



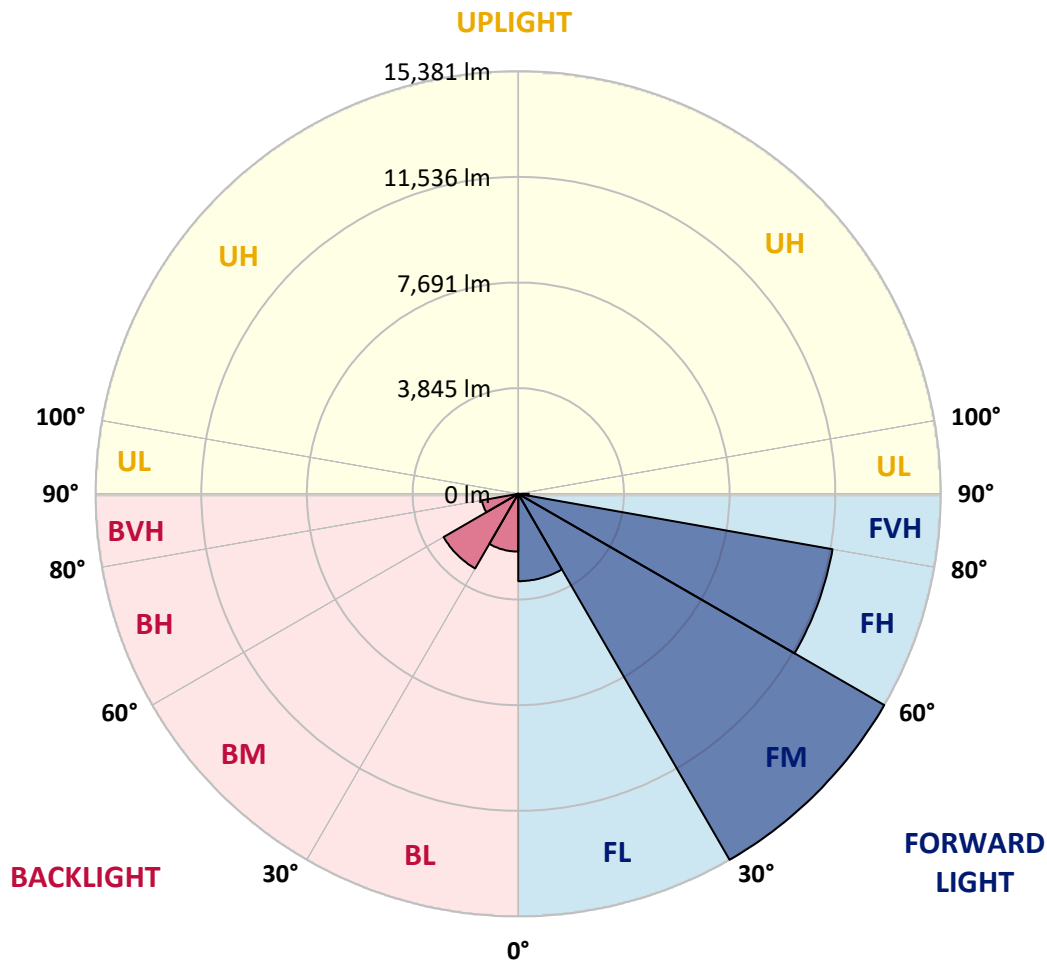
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3177.8	8.5			
FM (30°-60°)	15381.1	41.3			
FH (60°-80°)	11614.4	31.2			G4/12000
FVH (80°-90°)	382.3	1.0			G3/500
BL (0°-30°)	2104.1	5.7	B3/2500		
BM (30°-60°)	3138.2	8.4	B3/5000		
BH (60°-80°)	1342.1	3.6	B3/2500		G3/2500
BVH (80°-90°)	65.1	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°	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5
2.5°	5598.9	5591.6	5585.1	5596.5	5603.0	5613.6	5629.1	5639.7	5642.9	5652.7	5665.0
5°	5688.6	5687.8	5678.8	5673.9	5660.1	5655.2	5658.4	5671.5	5672.3	5684.5	5722.8
7.5°	5864.6	5863.0	5841.0	5831.2	5801.9	5769.3	5744.8	5747.3	5746.5	5758.7	5810.0
10°	6130.3	6117.3	6086.3	6056.1	5999.1	5938.0	5893.1	5852.4	5852.4	5870.3	5927.4
12.5°	6430.2	6448.2	6405.8	6360.1	6264.8	6154.8	6076.5	6030.9	6026.0	6035.0	6075.7
15°	6802.7	6802.7	6774.1	6708.9	6625.0	6471.8	6310.4	6252.6	6244.4	6263.2	6260.7
17.5°	7222.4	7234.6	7180.8	7148.2	7019.5	6849.9	6647.8	6547.6	6547.6	6535.4	6479.1
20°	7757.8	7691.0	7696.7	7642.9	7548.4	7302.3	7096.9	6951.0	6949.4	6924.9	6766.8
22.5°	8339.7	8303.1	8271.3	8224.0	8093.6	7873.6	7588.3	7444.1	7440.8	7380.5	7145.8
25°	8913.5	8941.2	8906.1	8819.8	8724.4	8484.8	8170.2	8028.4	8027.6	7927.3	7594.8
27.5°	9503.5	9533.7	9522.3	9444.0	9316.9	9129.4	8832.0	8647.0	8635.6	8570.4	8152.3
30°	10155.5	10128.6	10163.7	10130.2	10066.7	9761.1	9492.1	9277.0	9304.7	9285.1	8785.5
32.5°	10629.8	10646.9	10761.9	10765.1	10698.3	10471.7	10143.3	10011.3	10055.3	10029.2	9563.8
35°	11058.5	11086.2	11234.6	11380.4	11429.3	11181.6	10847.4	10839.3	10896.3	11055.3	10636.4
37.5°	11426.9	11446.4	11654.3	11844.2	12002.3	11832.7	11589.9	11879.2	11963.1	12288.3	11743.1
40°	11647.7	11673.0	11942.0	12209.3	12491.3	12430.9	12408.1	13092.7	13171.8	13457.8	12550.8
42.5°	11523.1	11572.8	12021.0	12510.0	12924.8	13045.4	13357.6	14237.8	14328.2	14352.7	13344.5
45°	11300.6	11362.5	11863.7	12655.1	13331.5	13718.6	14312.7	15170.9	15220.6	15151.4	14002.2
47.5°	11061.0	11127.0	11686.9	12611.9	13658.3	14501.8	15166.0	16049.5	16084.5	15871.8	14664.8
50°	10788.8	10849.9	11452.2	12510.8	13904.4	15241.0	16043.0	16809.0	16940.3	16519.7	15179.9
52.5°	10457.9	10523.1	11162.0	12352.7	14120.4	15789.5	16816.4	17667.2	17676.2	17329.8	15760.2
55°	10029.2	10142.5	10797.7	12078.9	14233.7	16260.6	17490.4	18802.5	18860.4	18525.4	16245.9
57.5°	9552.4	9651.0	10359.3	11713.8	14131.8	16618.3	18574.3	20020.1	20012.7	19340.4	16670.5
60°	8922.4	8992.5	9788.0	11236.2	13803.4	17051.1	19703.0	21324.9	21311.8	20139.1	16943.5
62.5°	8114.0	8184.1	8932.2	10487.2	13320.9	17341.2	20469.1	22302.0	22264.5	20720.1	17027.5
65°	7176.7	7302.3	7951.8	9514.9	12467.6	17150.5	20839.1	22877.4	22817.1	21163.5	16827.0
67.5°	6298.2	6405.0	6919.2	8176.7	11208.5	16377.1	20578.3	23025.7	23007.8	21227.9	16260.6
70°	5054.5	5093.6	5564.7	6641.3	9325.9	14721.1	19677.0	22683.4	22691.6	20634.6	15122.8
72.5°	3459.6	3555.0	3764.4	4614.4	6786.4	11707.2	16959.8	20414.5	20416.2	18502.6	13175.8
75°	1860.6	2008.1	2252.6	2674.0	3793.7	7512.5	13620.0	16939.4	16971.2	15426.8	10472.5
77.5°	922.6	975.5	1117.3	1430.3	1739.2	3544.4	8759.4	12715.4	12791.2	11841.7	7142.5
80°	422.2	431.1	441.7	439.3	665.8	1555.0	3760.3	7636.4	7659.2	7043.1	3260.8
82.5°	330.1	328.4	333.3	303.2	304.8	599.8	1301.5	2000.0	2132.8	1678.9	1034.2
85°	199.7	198.9	214.3	166.3	204.6	324.4	656.9	797.9	807.6	656.9	535.4
87.5°	75.8	73.3	67.6	59.5	68.5	91.3	227.4	293.4	286.9	203.7	185.0
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°	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5	5653.5
2.5°	5675.5	5701.6	5749.7	5786.4	5798.6	5837.7	5875.2	5881.7	5908.6	5919.2	5954.3
5°	5746.5	5790.5	5865.4	5915.2	5937.2	6002.4	6044.7	6065.9	6058.6	6062.7	6101.8
7.5°	5850.0	5891.5	5951.8	6012.1	6022.7	6034.1	6030.1	6026.8	5998.3	5973.8	6010.5
10°	5944.5	5983.6	6021.1	6030.1	5976.3	5946.1	5892.3	5850.8	5795.3	5770.1	5799.4
12.5°	6077.3	6085.5	6048.8	5999.9	5884.2	5776.6	5689.4	5613.6	5545.1	5497.9	5537.0
15°	6217.5	6185.7	6079.0	5936.3	5757.0	5603.0	5460.4	5334.1	5220.8	5193.1	5203.7
17.5°	6403.3	6316.9	6101.8	5862.2	5583.5	5343.8	5160.5	5000.7	4852.4	4790.5	4784.8
20°	6629.9	6490.5	6148.2	5768.5	5378.1	5059.4	4775.8	4537.0	4332.5	4164.6	4168.6
22.5°	6924.9	6722.8	6218.3	5670.7	5150.7	4726.1	4313.7	3907.8	3571.3	3426.2	3390.3
25°	7314.5	7012.9	6317.8	5581.8	4896.4	4302.3	3719.6	3146.7	2790.5	2649.5	2634.0
27.5°	7799.4	7402.5	6469.3	5483.2	4624.2	3799.5	2961.7	2400.1	2073.3	1925.0	1875.3
30°	8350.3	7882.5	6625.0	5380.5	4295.0	3153.2	2258.3	1708.2	1373.2	1240.4	1223.3
32.5°	9063.4	8490.5	6856.5	5219.2	3814.1	2478.4	1575.4	1066.0	838.6	781.6	765.3
35°	10076.5	9312.8	7142.5	5015.4	3196.4	1731.0	976.4	624.3	502.8	474.3	468.6
37.5°	11021.0	10119.7	7431.0	4677.2	2427.0	1080.7	558.3	400.2	373.3	374.1	375.7
40°	11770.0	10671.4	7664.1	4232.2	1596.6	613.7	387.9	332.5	333.3	330.9	329.3
42.5°	12436.7	11111.5	7769.2	3574.5	925.0	410.8	336.6	306.4	299.1	301.5	299.9
45°	12988.4	11560.5	7565.5	2835.3	545.2	368.4	317.8	284.4	276.3	289.3	290.9
47.5°	13568.7	11986.8	7253.4	2136.1	442.5	350.4	300.7	268.1	264.1	280.4	282.0
50°	14056.8	12295.7	6721.2	1609.6	422.2	330.9	285.2	251.8	251.0	265.7	265.7
52.5°	14465.1	12482.3	6089.6	1242.9	408.3	313.8	269.8	236.3	236.3	241.2	242.1
55°	14752.8	12444.8	5713.0	978.0	393.6	297.5	253.5	221.7	211.9	208.6	210.3
57.5°	14805.0	12345.4	5276.2	762.8	376.5	282.0	238.8	204.6	186.6	184.2	183.4
60°	14771.6	12127.0	4777.4	637.3	357.0	267.3	224.1	186.6	168.7	163.0	164.6
62.5°	14632.2	11739.8	4201.2	559.1	337.4	255.9	207.8	174.4	158.1	150.8	150.8
65°	14211.7	11185.7	3345.5	489.8	313.0	243.7	194.8	169.5	151.6	143.4	141.8
67.5°	13287.5	10035.7	2514.2	429.5	289.3	230.6	193.2	168.7	148.3	136.9	135.3
70°	12047.9	8620.9	1716.4	377.3	263.2	218.4	192.3	169.5	145.1	130.4	128.8
72.5°	10057.7	6796.1	988.6	328.4	237.2	207.0	189.1	170.3	139.4	121.4	119.0
75°	7557.3	4766.8	580.3	282.0	211.9	189.9	180.1	165.4	130.4	110.8	108.4
77.5°	4545.2	2225.7	436.8	233.9	181.7	167.1	160.6	151.6	119.0	102.7	100.2
80°	1667.5	845.1	343.1	187.4	144.3	145.1	138.5	132.8	108.4	94.5	92.9
82.5°	727.0	516.7	253.5	142.6	113.3	129.6	114.1	109.2	92.9	84.8	81.5
85°	440.9	308.1	163.0	97.0	78.2	88.0	79.9	83.9	71.7	66.8	64.4
87.5°	145.9	92.1	72.5	47.3	39.1	36.7	35.9	43.2	40.7	37.5	37.5
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)