

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: P510448

Luminaire Tested: **CST-CA10-210-760-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510448  
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-CA10-210-760-U-T3-HSS  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32445 lumens  
Efficiency: N/A  
Efficacy: 152.4 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

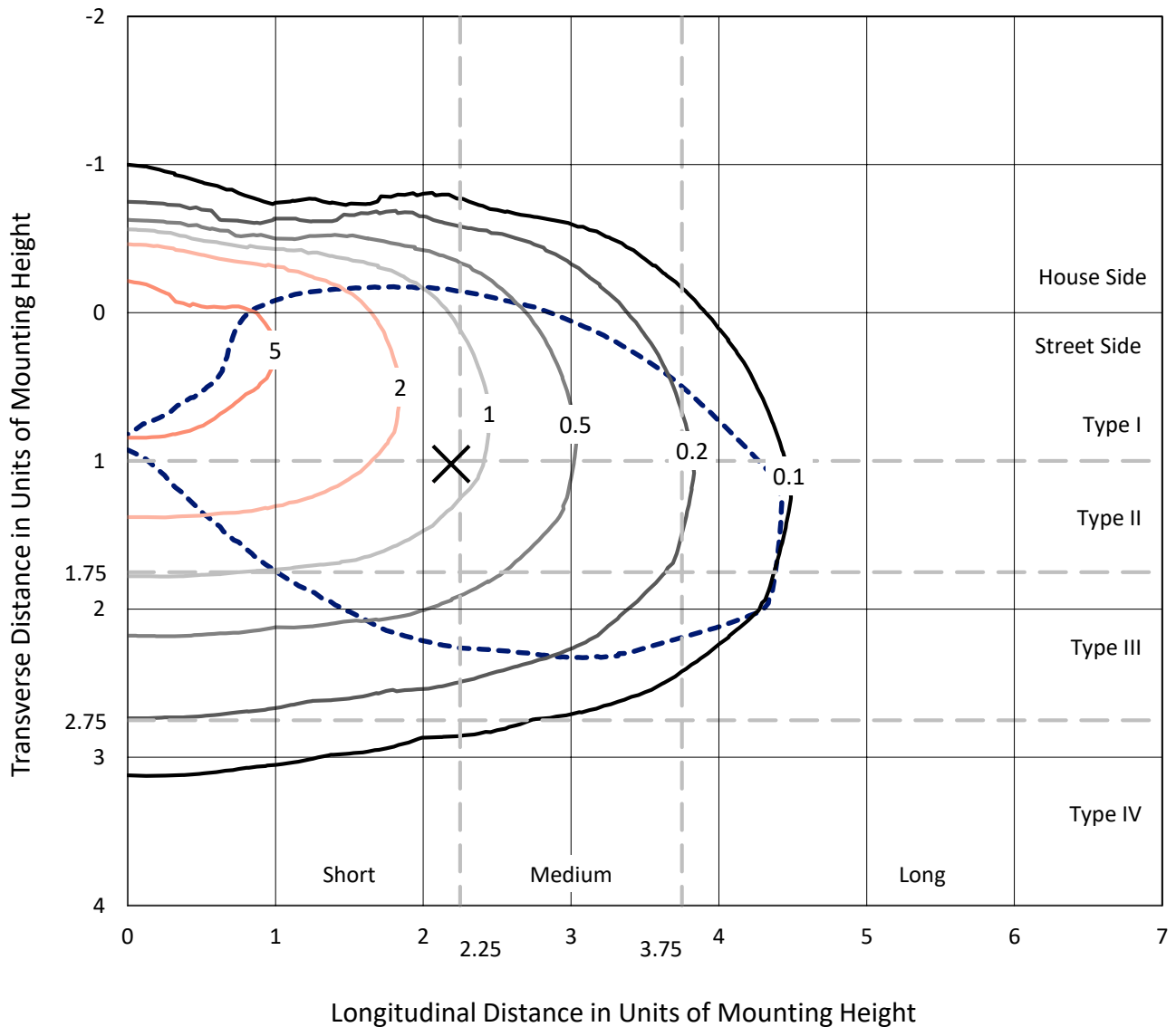
Input Watts (W): 212.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

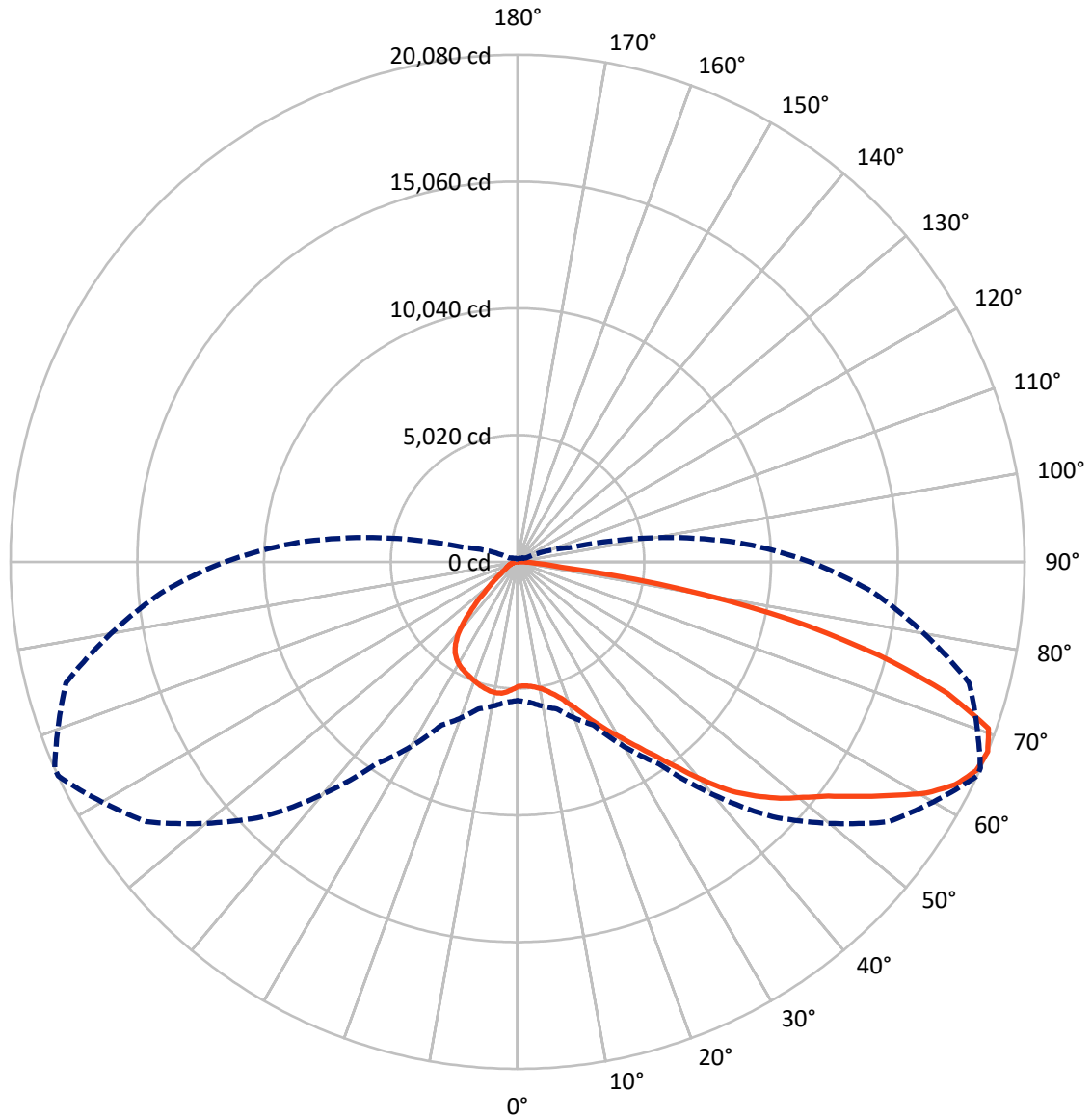
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 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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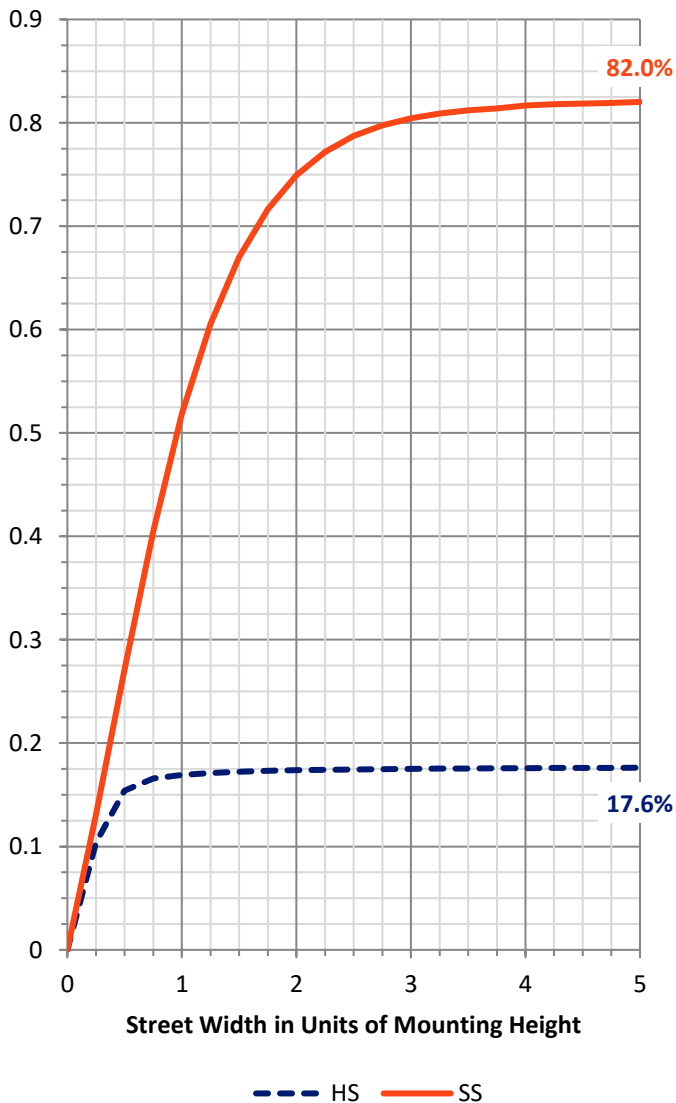
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5798.7	0.0	5798.7
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	26646.3	0.0	26646.3
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	32445.0	0.0	32445.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	487.8	1.5
10°-20°	1505.9	4.6
20°-30°	2612.4	8.1
30°-40°	3940.8	12.1
40°-50°	5464.2	16.8
50°-60°	6744.9	20.8
60°-70°	7186.5	22.1
70°-80°	4112.3	12.7
80°-90°	390.2	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°	32445.0	100.0
0°-180°	32445.0	100.0

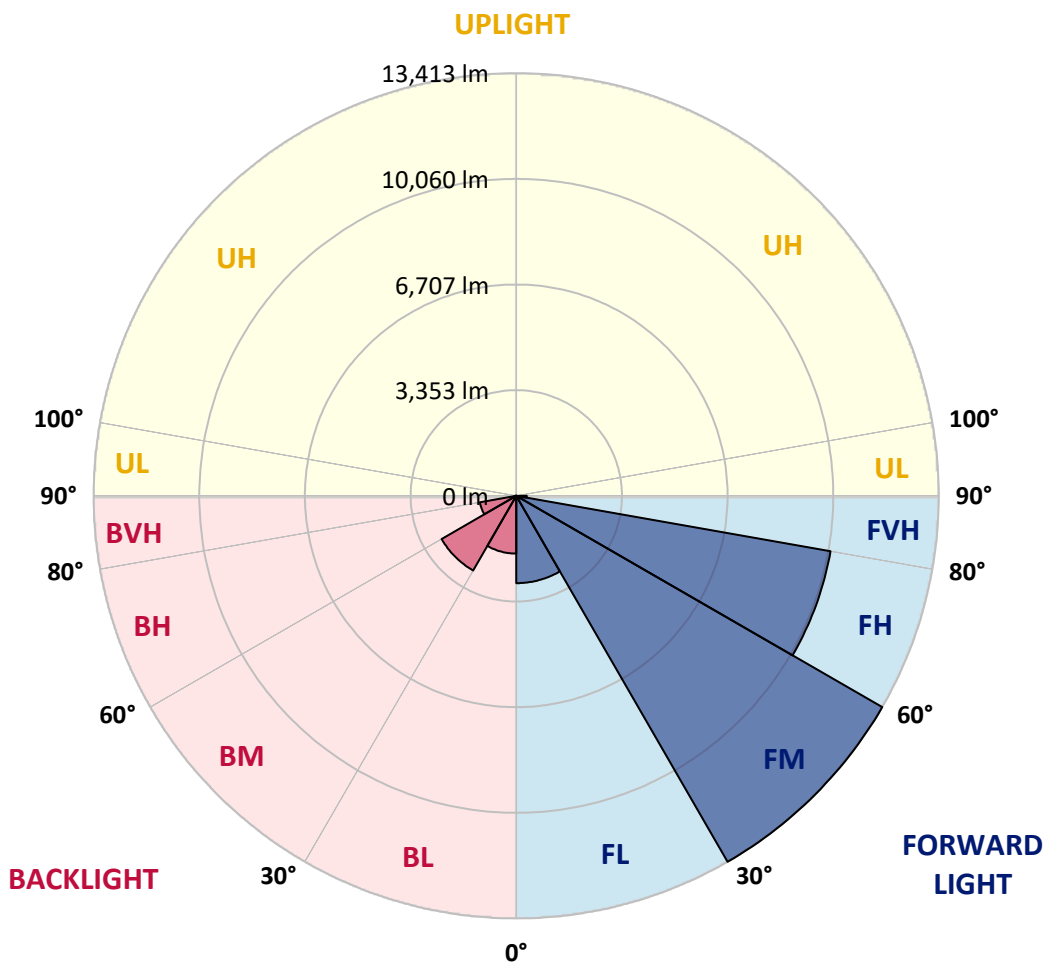


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2771.2	8.5			
FM (30°-60°)	13413.2	41.3			
FH (60°-80°)	10128.4	31.2			G4/12000
FVH (80°-90°)	333.4	1.0			G3/500
BL (0°-30°)	1834.9	5.7	B3/2500		
BM (30°-60°)	2736.7	8.4	B3/5000		
BH (60°-80°)	1170.4	3.6	B3/2500		G3/2500
BVH (80°-90°)	56.8	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°	4930.2	4930.2	4930.2	4930.2	4930.2	4930.2	4930.2	4930.2	4930.2	4930.2	4930.2
2.5°	4882.6	4876.2	4870.5	4880.5	4886.2	4895.4	4908.9	4918.1	4921.0	4929.5	4940.2
5°	4960.8	4960.1	4952.3	4948.0	4935.9	4931.7	4934.5	4945.9	4946.6	4957.2	4990.6
7.5°	5114.3	5112.9	5093.7	5085.2	5059.6	5031.2	5009.8	5012.0	5011.3	5021.9	5066.7
10°	5346.0	5334.6	5307.6	5281.3	5231.6	5178.3	5139.2	5103.6	5103.6	5119.3	5169.0
12.5°	5607.5	5623.2	5586.2	5546.4	5463.3	5367.3	5299.1	5259.3	5255.0	5262.8	5298.4
15°	5932.3	5932.3	5907.5	5850.6	5777.4	5643.8	5503.1	5452.6	5445.5	5461.8	5459.7
17.5°	6298.4	6309.0	6262.1	6233.7	6121.4	5973.6	5797.3	5709.9	5709.9	5699.2	5650.2
20°	6765.3	6707.0	6712.0	6665.1	6582.6	6368.0	6188.9	6061.7	6060.3	6038.9	5901.1
22.5°	7272.7	7240.8	7213.0	7171.8	7058.1	6866.2	6617.5	6491.7	6488.8	6436.2	6231.5
25°	7773.1	7797.3	7766.7	7691.4	7608.2	7399.3	7124.9	7001.3	7000.5	6913.1	6623.2
27.5°	8287.6	8313.9	8304.0	8235.8	8124.9	7961.4	7702.0	7540.7	7530.7	7473.9	7109.3
30°	8856.2	8832.8	8863.3	8834.2	8778.8	8512.2	8277.7	8090.1	8114.2	8097.2	7661.5
32.5°	9269.9	9284.8	9385.0	9387.8	9329.6	9132.0	8845.6	8730.4	8768.8	8746.1	8340.2
35°	9643.7	9667.9	9797.2	9924.4	9967.1	9751.0	9459.6	9452.5	9502.3	9640.8	9275.5
37.5°	9964.9	9982.0	10163.2	10328.8	10466.7	10318.9	10107.1	10359.4	10432.6	10716.2	10240.7
40°	10157.5	10179.6	10414.1	10647.2	10893.1	10840.5	10820.6	11417.6	11486.6	11736.0	10945.0
42.5°	10048.8	10092.2	10483.0	10909.5	11271.2	11376.4	11648.6	12416.2	12495.1	12516.4	11637.2
45°	9854.8	9908.8	10345.9	11036.0	11625.9	11963.5	12481.6	13230.0	13273.3	13212.9	12210.8
47.5°	9645.8	9703.4	10191.7	10998.3	11910.9	12646.5	13225.7	13996.1	14026.7	13841.2	12788.6
50°	9408.4	9461.7	9987.0	10910.2	12125.5	13291.1	13990.4	14658.5	14772.9	14406.2	13237.8
52.5°	9119.9	9176.8	9734.0	10772.3	12313.8	13769.4	14664.9	15406.9	15414.7	15112.6	13743.8
55°	8746.1	8844.8	9416.3	10533.5	12412.6	14180.2	15252.7	16396.9	16447.4	16155.3	14167.4
57.5°	8330.3	8416.3	9033.9	10215.1	12323.8	14492.2	16197.9	17458.7	17452.3	16866.0	14537.7
60°	7780.9	7842.0	8535.7	9798.6	12037.4	14869.6	17182.2	18596.6	18585.2	17562.5	14775.8
62.5°	7075.9	7137.0	7789.4	9145.5	11616.6	15122.6	17850.3	19448.7	19416.0	18069.2	14849.0
65°	6258.6	6368.0	6934.4	8297.6	10872.5	14956.3	18173.0	19950.5	19897.9	18455.8	14674.1
67.5°	5492.4	5585.5	6034.0	7130.6	9774.5	14281.8	17945.6	20079.8	20064.2	18512.0	14180.2
70°	4407.9	4442.0	4852.8	5791.6	8132.7	12837.6	17159.5	19781.3	19788.4	17994.6	13188.0
72.5°	3017.0	3100.1	3282.8	4024.1	5918.1	10209.4	14790.0	17802.7	17804.1	16135.4	11490.1
75°	1622.6	1751.2	1964.4	2331.9	3308.4	6551.4	11877.5	14772.2	14799.9	13453.1	9132.7
77.5°	804.5	850.7	974.4	1247.3	1516.7	3090.9	7638.8	11088.6	11154.7	10326.7	6228.7
80°	368.2	376.0	385.2	383.1	580.7	1356.0	3279.2	6659.4	6679.3	6142.0	2843.6
82.5°	287.8	286.4	290.7	264.4	265.8	523.1	1135.0	1744.1	1859.9	1464.1	901.9
85°	174.1	173.4	186.9	145.0	178.4	282.9	572.8	695.8	704.3	572.8	466.9
87.5°	66.1	64.0	59.0	51.9	59.7	79.6	198.3	255.9	250.2	177.7	161.3
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°	4930.2	4930.2	4930.2	4930.2	4930.2	4930.2	4930.2	4930.2	4930.2	4930.2	4930.2
2.5°	4949.4	4972.2	5014.1	5046.1	5056.7	5090.9	5123.5	5129.2	5152.7	5161.9	5192.5
5°	5011.3	5049.6	5115.0	5158.4	5177.6	5234.4	5271.4	5289.9	5283.5	5287.0	5321.1
7.5°	5101.5	5137.8	5190.4	5242.9	5252.2	5262.1	5258.6	5255.7	5230.9	5209.5	5241.5
10°	5184.0	5218.1	5250.8	5258.6	5211.7	5185.4	5138.5	5102.2	5053.9	5031.9	5057.4
12.5°	5299.8	5306.9	5274.9	5232.3	5131.4	5037.5	4961.5	4895.4	4835.7	4794.5	4828.6
15°	5422.0	5394.3	5301.2	5176.8	5020.5	4886.2	4761.8	4651.6	4552.8	4528.7	4537.9
17.5°	5584.1	5508.8	5321.1	5112.2	4869.1	4660.2	4500.2	4360.9	4231.6	4177.6	4172.6
20°	5781.7	5660.1	5361.6	5030.4	4690.0	4412.1	4164.8	3956.6	3778.2	3631.8	3635.3
22.5°	6038.9	5862.7	5422.8	4945.2	4491.7	4121.4	3761.8	3407.9	3114.4	2987.8	2956.6
25°	6378.7	6115.7	5509.5	4867.7	4270.0	3751.9	3243.7	2744.1	2433.5	2310.5	2297.0
27.5°	6801.5	6455.4	5641.7	4781.7	4032.6	3313.4	2582.7	2093.1	1808.1	1678.7	1635.4
30°	7282.0	6874.0	5777.4	4692.1	3745.5	2749.8	1969.4	1489.7	1197.6	1081.7	1066.8
32.5°	7903.9	7404.2	5979.2	4551.4	3326.1	2161.3	1373.8	929.6	731.3	681.6	667.4
35°	8787.3	8121.3	6228.7	4373.7	2787.4	1509.6	851.4	544.4	438.5	413.6	408.7
37.5°	9611.0	8824.9	6480.3	4078.8	2116.5	942.4	486.8	349.0	325.5	326.2	327.6
40°	10264.1	9306.1	6683.6	3690.7	1392.3	535.2	338.3	290.0	290.7	288.6	287.1
42.5°	10845.5	9689.9	6775.2	3117.2	806.7	358.2	293.5	267.2	260.8	263.0	261.5
45°	11326.7	10081.5	6597.6	2472.6	475.5	321.2	277.2	248.0	240.9	252.3	253.7
47.5°	11832.7	10453.2	6325.4	1862.8	385.9	305.6	262.3	233.8	230.3	244.5	245.9
50°	12258.4	10722.6	5861.3	1403.7	368.2	288.6	248.8	219.6	218.9	231.7	231.7
52.5°	12614.5	10885.3	5310.5	1083.8	356.1	273.6	235.2	206.1	206.1	210.4	211.1
55°	12865.4	10852.6	4982.1	852.9	343.3	259.4	221.0	193.3	184.8	181.9	183.4
57.5°	12910.8	10765.9	4601.2	665.2	328.4	245.9	208.2	178.4	162.8	160.6	159.9
60°	12881.7	10575.4	4166.2	555.8	311.3	233.1	195.4	162.8	147.1	142.1	143.6
62.5°	12760.2	10237.8	3663.7	487.6	294.2	223.2	181.2	152.1	137.9	131.5	131.5
65°	12393.4	9754.6	2917.5	427.1	272.9	212.5	169.9	147.8	132.2	125.1	123.7
67.5°	11587.5	8751.7	2192.6	374.5	252.3	201.1	168.4	147.1	129.4	119.4	118.0
70°	10506.5	7517.9	1496.8	329.1	229.6	190.5	167.7	147.8	126.5	113.7	112.3
72.5°	8770.9	5926.7	862.1	286.4	206.8	180.5	164.9	148.5	121.5	105.9	103.8
75°	6590.5	4157.0	506.0	245.9	184.8	165.6	157.1	144.3	113.7	96.7	94.5
77.5°	3963.7	1941.0	380.9	204.0	158.5	145.7	140.0	132.2	103.8	89.6	87.4
80°	1454.1	737.0	299.2	163.5	125.8	126.5	120.8	115.8	94.5	82.4	81.0
82.5°	634.0	450.6	221.0	124.4	98.8	113.0	99.5	95.2	81.0	73.9	71.1
85°	384.5	268.7	142.1	84.6	68.2	76.8	69.7	73.2	62.5	58.3	56.1
87.5°	127.2	80.3	63.3	41.2	34.1	32.0	31.3	37.7	35.5	32.7	32.7
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)