

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: P510429

Luminaire Tested: **CST-CA10-210-740-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510429  
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-CA10-210-740-U-T3  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34973 lumens  
Efficiency: N/A  
Efficacy: 164.3 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

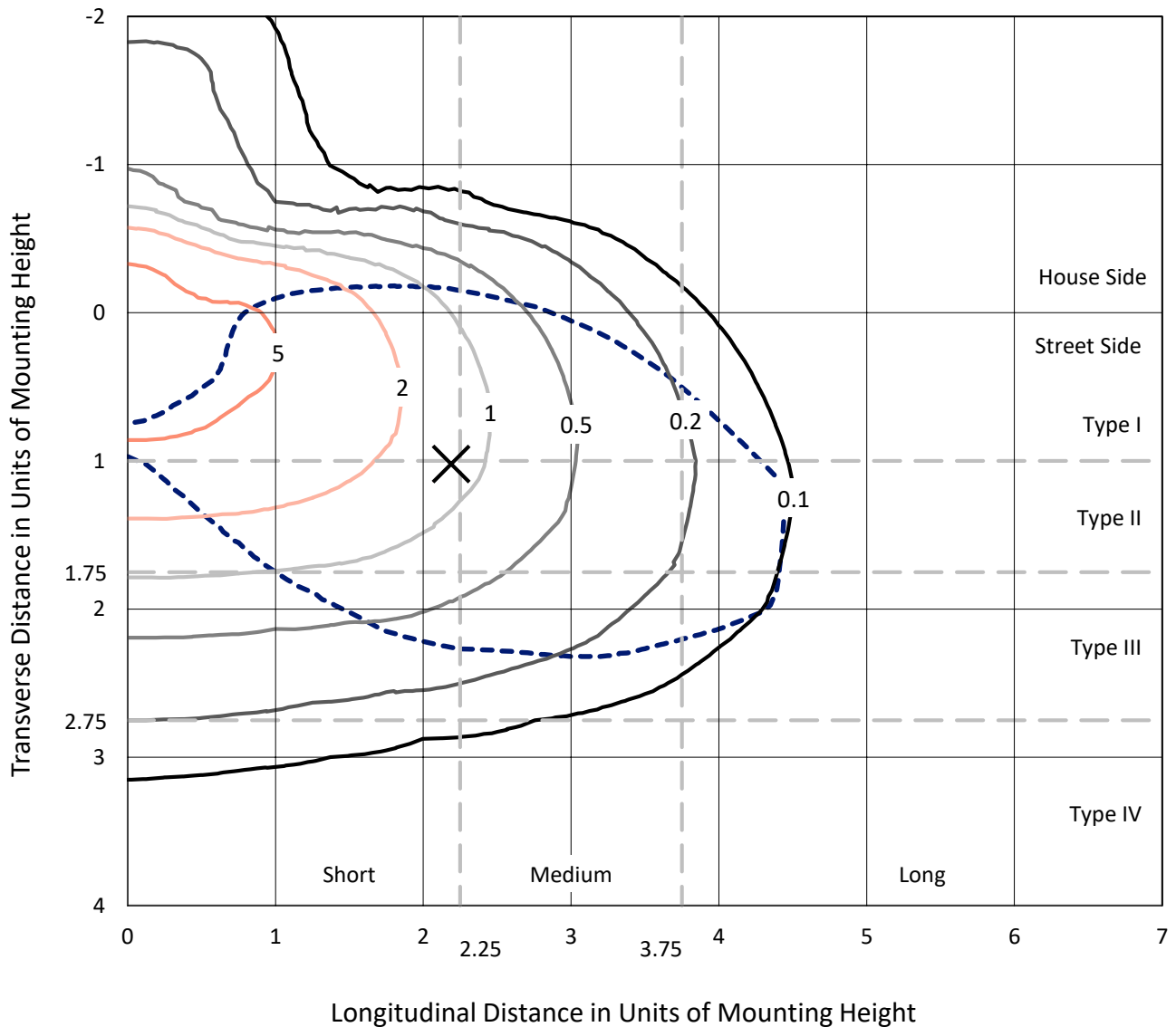
Input Watts (W): 212.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

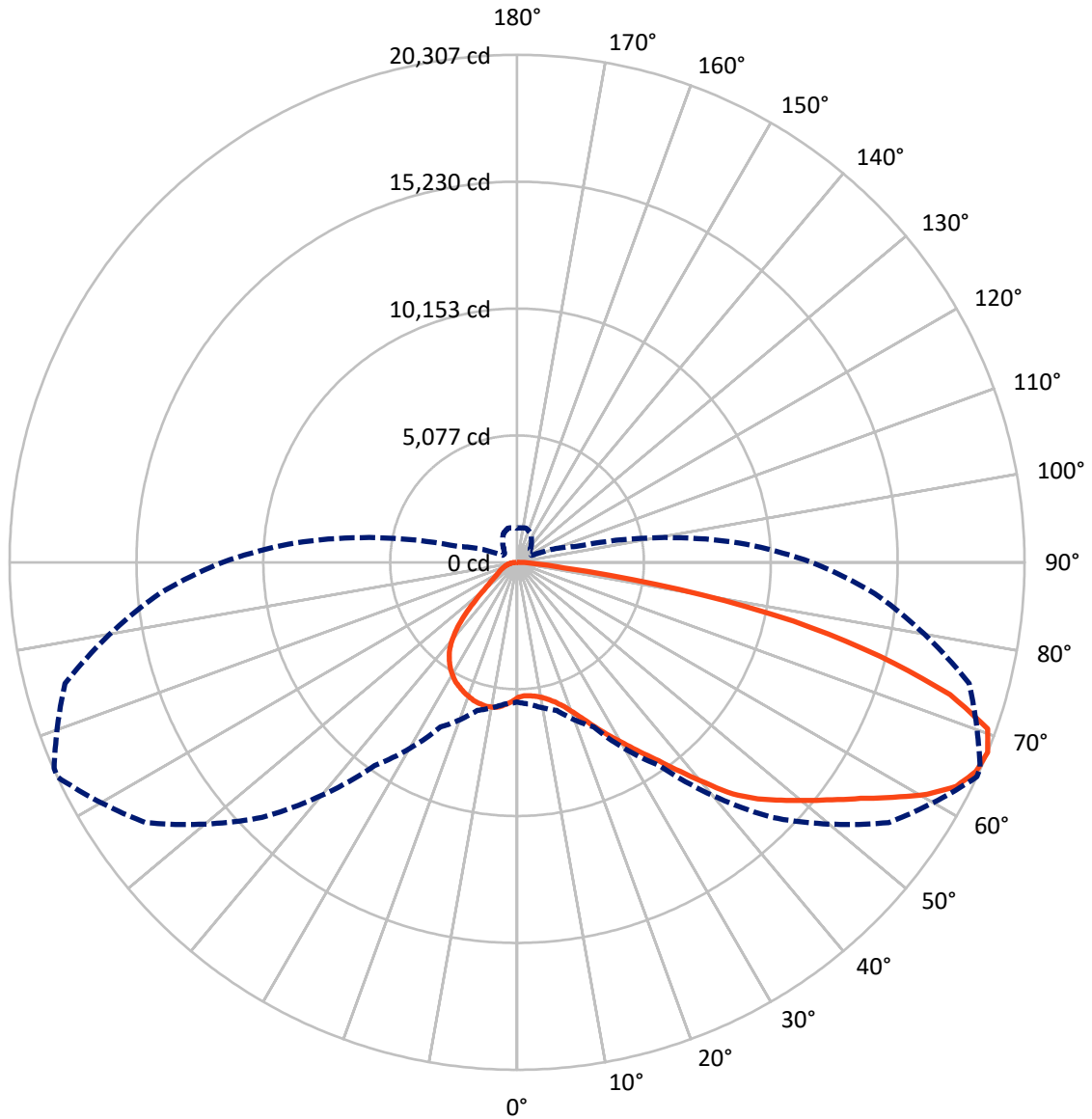
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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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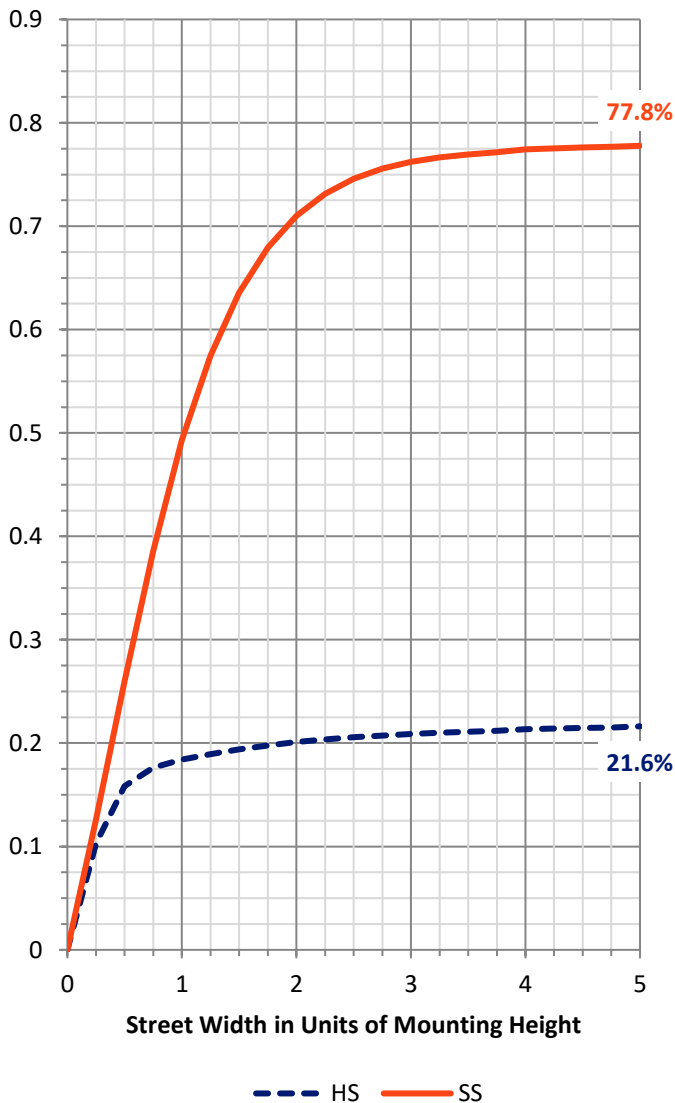
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7725.1	0.0	7725.1
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	27247.9	0.0	27247.9
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	34973.0	0.0	34973.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	538.2	1.5
10°-20°	1681.6	4.8
20°-30°	2911.1	8.3
30°-40°	4277.5	12.2
40°-50°	5781.6	16.5
50°-60°	7109.6	20.3
60°-70°	7618.4	21.8
70°-80°	4493.3	12.8
80°-90°	561.6	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°	34973.0	100.0
0°-180°	34973.0	100.0

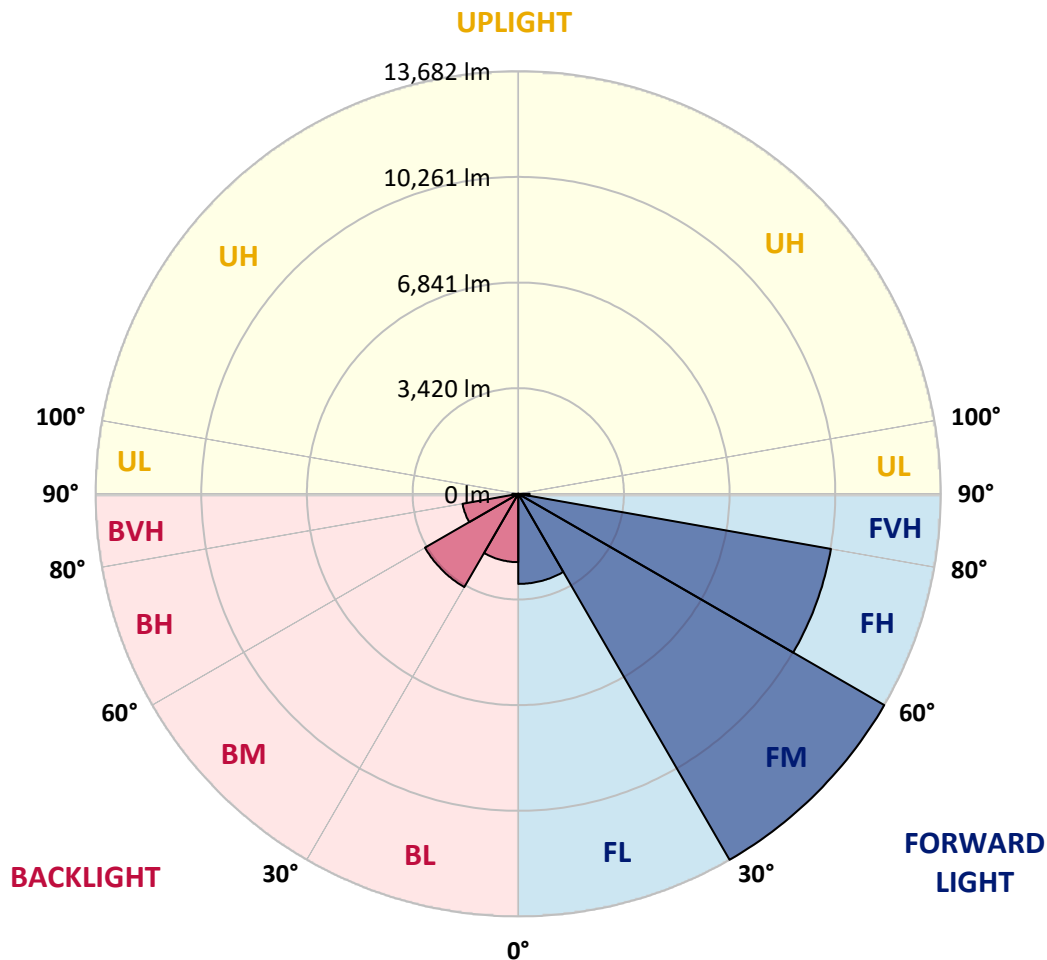


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2918.2	8.3			
FM (30°-60°)	13681.7	39.1			
FH (60°-80°)	10279.7	29.4			G4/12000
FVH (80°-90°)	368.3	1.1			G3/500
BL (0°-30°)	2212.7	6.3	B3/2500		
BM (30°-60°)	3487.1	10.0	B3/5000		
BH (60°-80°)	1832.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	193.3	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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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0
2.5°	5300.0	5290.1	5285.8	5299.3	5309.3	5320.7	5337.1	5352.8	5354.9	5375.6	5402.7
5°	5364.2	5355.7	5346.4	5344.2	5340.7	5340.0	5344.2	5362.1	5366.4	5386.3	5444.8
7.5°	5506.8	5498.3	5481.2	5474.7	5455.5	5421.3	5404.9	5414.1	5416.3	5440.5	5513.2
10°	5739.3	5712.9	5692.2	5670.8	5610.2	5556.0	5516.1	5499.0	5495.4	5518.9	5603.1
12.5°	6016.6	5994.5	5971.7	5915.4	5838.4	5740.7	5670.1	5630.9	5628.0	5648.0	5711.5
15°	6309.7	6309.7	6294.0	6227.0	6151.4	5989.5	5880.5	5814.9	5819.1	5834.8	5864.1
17.5°	6688.3	6657.0	6649.8	6573.5	6489.4	6341.8	6168.5	6063.7	6068.7	6075.8	6053.7
20°	7073.4	7064.1	7053.4	7002.8	6926.5	6736.8	6542.2	6404.5	6405.3	6379.6	6281.2
22.5°	7582.5	7551.8	7559.7	7502.6	7399.2	7204.6	6980.7	6817.4	6828.1	6791.0	6612.7
25°	8088.0	8057.4	8041.0	8002.5	7913.3	7728.7	7462.7	7313.0	7300.1	7233.1	6974.3
27.5°	8592.9	8575.0	8588.6	8542.2	8469.5	8263.4	8019.6	7853.4	7862.0	7815.6	7429.9
30°	9115.5	9095.6	9154.7	9079.9	9034.9	8834.6	8600.7	8405.3	8412.5	8429.6	7996.8
32.5°	9509.8	9533.4	9636.8	9628.2	9619.6	9396.5	9150.5	9042.1	9052.8	9112.7	8669.9
35°	9890.6	9892.7	10038.2	10148.0	10194.4	10007.5	9752.3	9748.7	9818.6	10001.1	9608.2
37.5°	10206.5	10199.3	10393.3	10563.7	10690.6	10545.9	10405.4	10624.3	10687.8	11066.4	10553.0
40°	10379.0	10394.0	10643.6	10856.1	11105.6	11037.2	11052.1	11611.9	11768.0	12099.6	11259.6
42.5°	10257.8	10303.5	10692.1	11125.6	11502.1	11593.3	11894.2	12678.6	12744.9	12804.8	11954.9
45°	10054.6	10102.4	10533.0	11233.3	11829.4	12215.1	12732.1	13499.3	13572.0	13505.0	12533.1
47.5°	9842.8	9892.0	10371.9	11189.8	12100.3	12839.7	13477.2	14225.2	14317.9	14110.4	13089.3
50°	9574.0	9650.3	10175.1	11097.8	12319.9	13513.6	14182.4	14972.4	15015.2	14715.8	13510.7
52.5°	9243.2	9327.3	9894.9	10940.2	12491.8	13984.2	14896.2	15783.2	15778.9	15423.1	13992.7
55°	8895.2	8971.5	9556.2	10692.1	12588.0	14346.4	15466.6	16676.6	16728.0	16429.9	14429.1
57.5°	8449.5	8518.7	9156.2	10358.4	12488.2	14653.7	16390.7	17738.3	17764.0	17130.8	14776.4
60°	7859.1	7961.1	8601.4	9934.1	12201.6	15009.5	17408.9	18855.0	18886.3	17820.3	14999.5
62.5°	7211.0	7251.6	7904.1	9280.9	11784.4	15284.0	18114.8	19728.4	19682.8	18359.4	15066.6
65°	6420.9	6453.0	7017.8	8441.0	11009.4	15133.6	18368.0	20177.6	20121.3	18698.1	14860.5
67.5°	5593.8	5692.9	6136.4	7275.9	9927.7	14439.1	18154.0	20306.7	20278.2	18723.8	14368.5
70°	4520.0	4554.9	4955.6	5927.5	8283.4	13048.7	17441.0	19975.9	19953.8	18150.5	13363.8
72.5°	3187.3	3153.1	3347.7	4110.0	5983.1	10379.7	14891.2	18117.0	18154.0	16236.7	11637.6
75°	1692.0	1757.6	2060.7	2516.3	3391.9	6672.6	11872.1	14993.8	14981.0	13577.0	9198.9
77.5°	901.3	899.9	1108.1	1302.7	1660.7	3066.1	7830.6	11307.4	11370.2	10519.5	6316.1
80°	432.8	449.2	462.1	529.8	827.8	1416.8	3275.7	6557.1	6985.0	6274.1	3000.5
82.5°	346.5	348.0	349.4	334.4	342.3	576.9	1262.1	1897.4	1965.9	1580.1	967.6
85°	256.7	241.0	238.9	202.5	228.9	346.5	636.7	810.0	770.1	749.4	546.2
87.5°	103.4	97.0	94.1	88.4	88.4	130.5	224.6	293.1	292.3	266.7	183.3
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°	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0	5402.0
2.5°	5424.1	5449.8	5509.7	5561.0	5580.3	5627.3	5671.5	5697.2	5715.0	5725.7	5774.2
5°	5480.4	5531.8	5627.3	5699.3	5769.2	5856.2	5912.5	5948.2	5968.2	5979.6	6014.5
7.5°	5566.7	5618.8	5720.0	5830.5	5894.7	5966.0	6002.4	6028.1	6040.9	6037.3	6065.1
10°	5643.7	5695.1	5796.3	5881.2	5917.5	5958.2	5977.4	5983.1	5983.8	5986.7	6014.5
12.5°	5748.5	5779.9	5834.1	5889.7	5881.9	5883.3	5899.7	5892.6	5876.2	5873.3	5891.9
15°	5861.2	5861.9	5866.2	5854.1	5804.9	5783.5	5760.7	5741.4	5696.5	5693.6	5722.9
17.5°	6002.4	5968.9	5891.1	5808.4	5691.5	5610.9	5529.6	5496.1	5441.2	5430.5	5444.8
20°	6184.2	6114.3	5925.4	5720.0	5501.1	5357.1	5258.7	5159.6	5083.3	5064.7	5078.3
22.5°	6445.2	6307.6	5968.9	5625.9	5287.2	5041.2	4850.1	4731.0	4602.7	4537.1	4543.5
25°	6760.3	6545.0	6044.5	5506.8	5035.5	4680.4	4370.2	4131.4	3986.6	3890.4	3916.0
27.5°	7173.2	6877.3	6135.0	5389.2	4722.5	4219.1	3769.1	3445.4	3297.8	3252.2	3222.2
30°	7651.6	7278.7	6230.6	5215.2	4384.5	3647.9	3071.8	2802.3	2633.3	2606.2	2583.3
32.5°	8292.0	7784.3	6409.5	5026.2	3980.9	3076.8	2451.4	2141.3	2102.8	2080.7	2075.7
35°	9117.7	8446.7	6597.1	4780.9	3454.7	2407.2	1854.6	1687.1	1668.5	1692.8	1694.9
37.5°	9994.0	9165.4	6821.7	4504.3	2849.3	1796.2	1419.0	1302.7	1323.4	1399.0	1416.1
40°	10587.2	9638.9	7025.6	4128.5	2101.3	1304.9	1032.5	1007.5	1121.6	1218.6	1238.6
42.5°	11156.2	9997.6	7108.3	3631.5	1498.8	929.1	833.5	919.1	1078.8	1185.1	1199.3
45°	11641.8	10414.7	6900.1	3035.4	1016.1	776.5	798.6	917.0	1094.5	1212.2	1222.9
47.5°	12103.9	10755.5	6615.6	2391.5	801.5	747.3	797.9	936.2	1129.5	1240.7	1247.1
50°	12545.3	11015.1	6130.0	1819.7	750.8	733.7	804.3	966.2	1148.7	1218.6	1215.7
52.5°	12872.5	11149.1	5613.1	1468.9	730.9	723.0	821.4	1004.0	1152.3	1194.3	1191.5
55°	13112.8	11123.4	5273.7	1202.9	714.5	718.7	849.2	1032.5	1186.5	1250.0	1247.8
57.5°	13134.9	11007.2	4887.9	1016.1	694.5	718.0	879.2	1072.4	1357.6	1474.6	1438.9
60°	13108.6	10814.7	4502.9	892.0	672.4	722.3	910.6	1192.2	1604.3	1696.3	1671.4
62.5°	12978.8	10456.0	3926.0	810.0	653.1	738.0	934.1	1287.0	1592.2	1602.9	1567.3
65°	12578.1	9976.2	3168.8	727.3	633.9	748.7	953.3	1312.0	1462.4	1428.2	1410.4
67.5°	11785.2	8904.5	2444.3	651.7	608.9	746.6	1010.4	1276.3	1413.2	1388.3	1365.5
70°	10658.5	7686.6	1697.0	574.0	566.9	733.0	996.1	1288.5	1389.7	1351.2	1320.6
72.5°	8904.5	6030.2	1079.5	510.5	504.1	700.9	960.5	1280.6	1374.0	1356.9	1314.8
75°	6704.7	4209.1	685.9	441.4	448.5	642.5	903.4	1238.6	1366.2	1312.7	1232.1
77.5°	4221.2	2077.8	533.4	375.1	385.8	554.0	780.8	1081.7	1311.3	1279.2	1175.8
80°	1596.5	843.5	417.1	304.5	313.7	430.7	640.3	889.9	1207.2	1259.9	1215.7
82.5°	735.1	527.7	313.0	244.6	248.1	313.7	477.7	658.9	1021.8	1156.6	1267.1
85°	429.3	345.8	208.9	163.3	169.7	185.4	268.8	402.2	662.4	882.0	986.8
87.5°	146.2	120.5	81.3	69.2	67.0	76.3	64.9	131.9	196.8	346.5	395.7
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)