

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: P510809

Luminaire Tested: **CST-CA8-330-760-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510809  
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-CA8-330-760-U-T3  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48889 lumens  
Efficiency: N/A  
Efficacy: 147.5 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

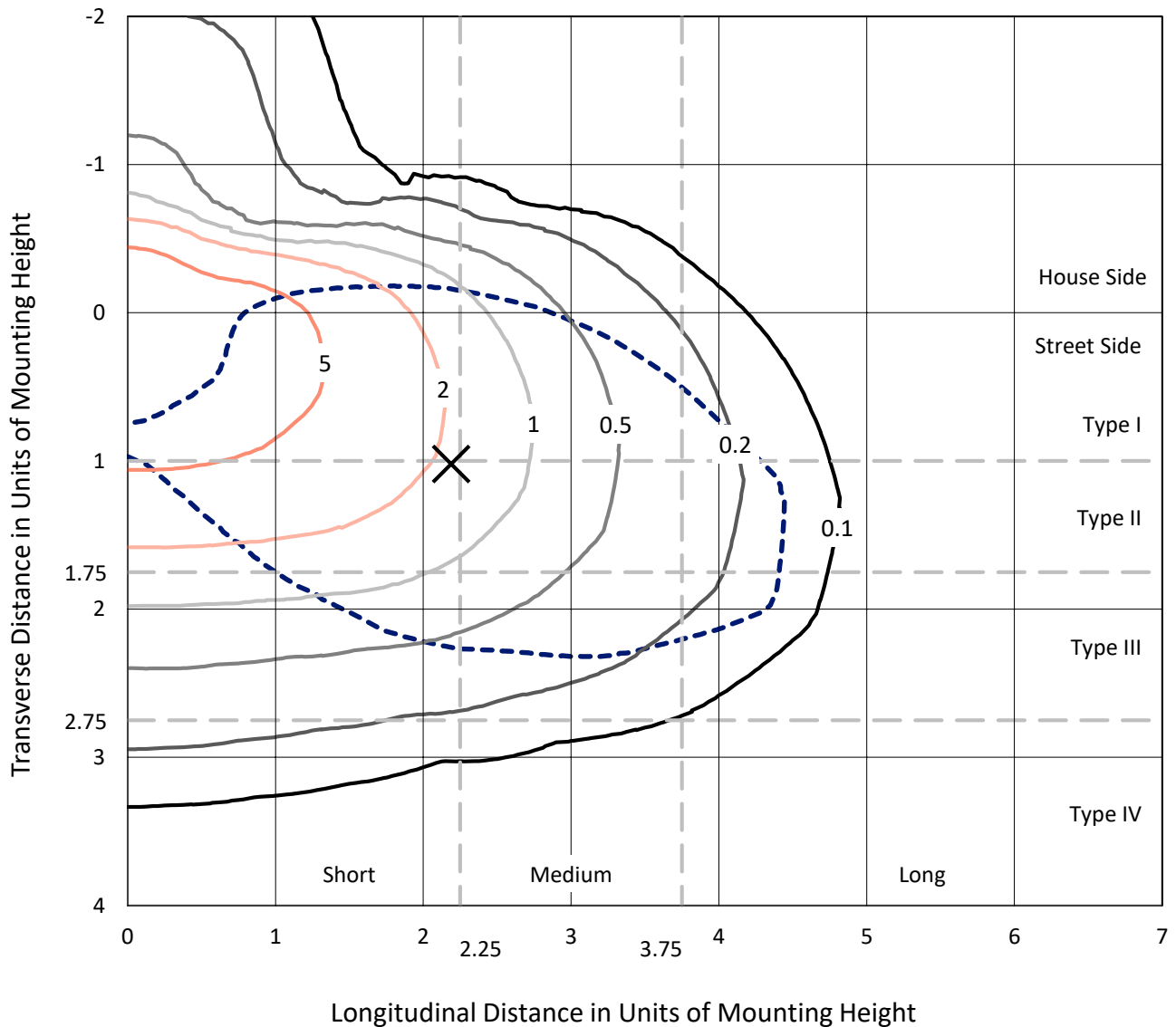
Input Watts (W): 331.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

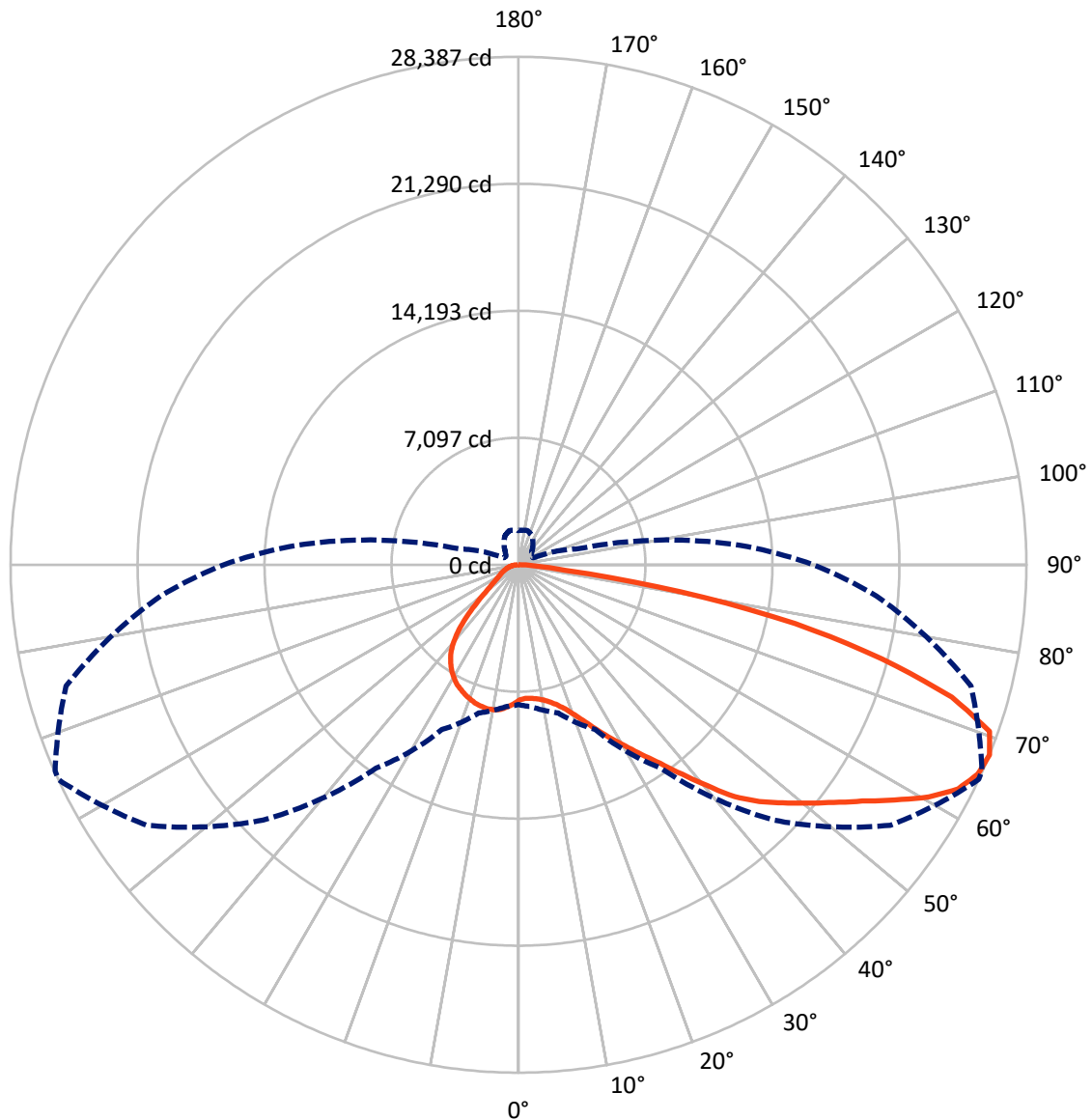
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 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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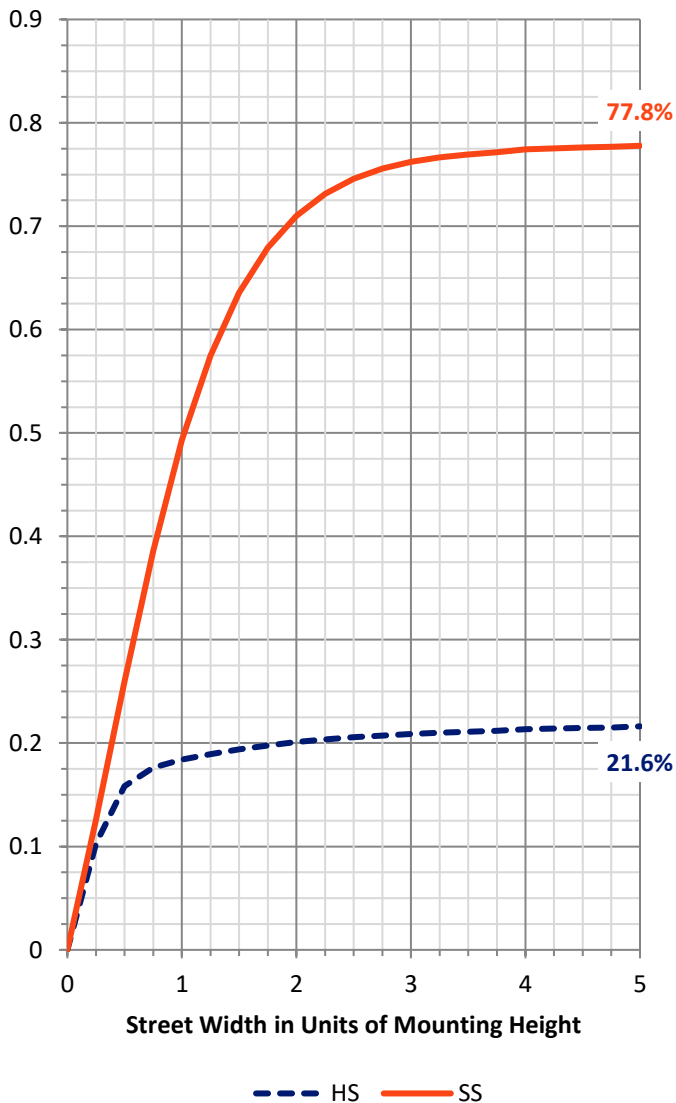
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10799.0	0.0	10799.0
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	38090.0	0.0	38090.0
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	48889.0	0.0	48889.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	752.4	1.5
10°-20°	2350.7	4.8
20°-30°	4069.4	8.3
30°-40°	5979.6	12.2
40°-50°	8082.1	16.5
50°-60°	9938.6	20.3
60°-70°	10649.9	21.8
70°-80°	6281.2	12.8
80°-90°	785.1	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°	48889.0	100.0
0°-180°	48889.0	100.0

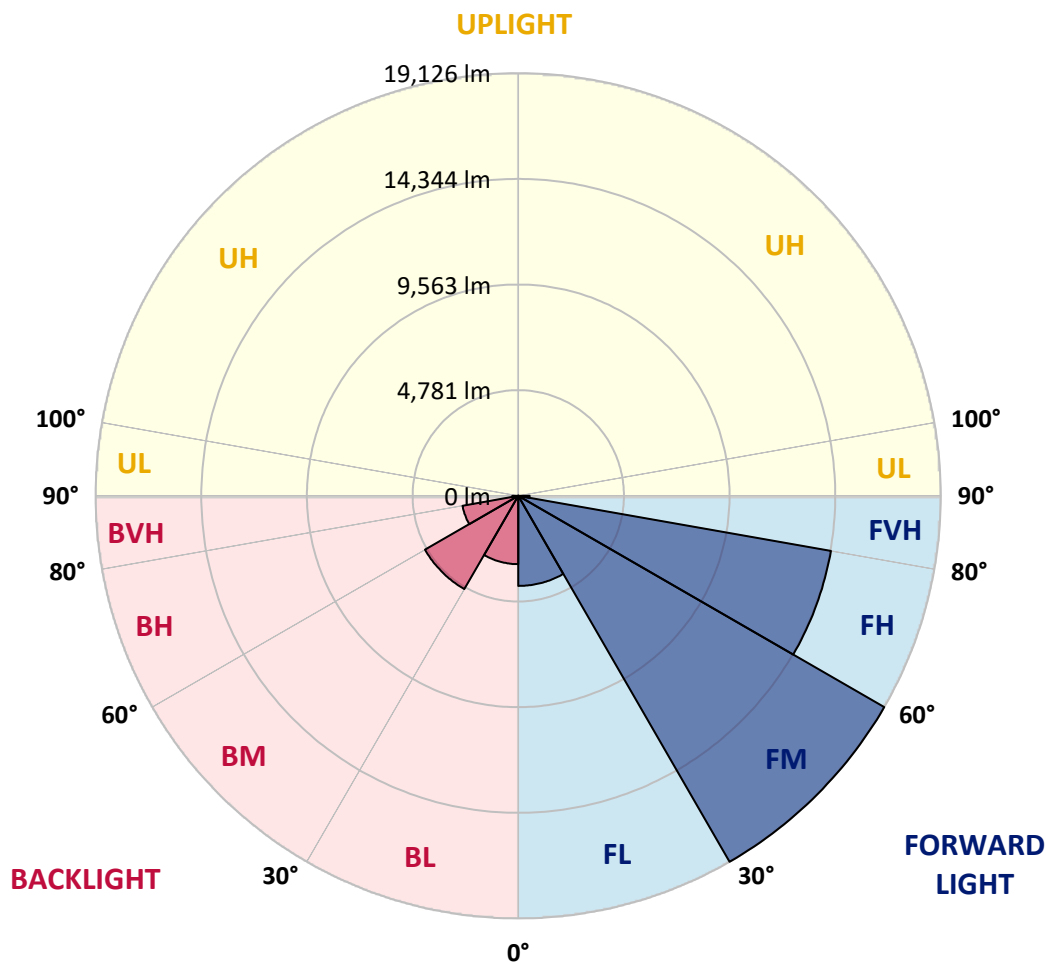


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4079.4	8.3			
FM (30°-60°)	19125.7	39.1			
FH (60°-80°)	14370.1	29.4			G5
FVH (80°-90°)	514.8	1.1			G4/750
BL (0°-30°)	3093.1	6.3	B4/5000		
BM (30°-60°)	4874.6	10.0	B3/5000		
BH (60°-80°)	2560.9	5.2	B4/5000		G4/5000
BVH (80°-90°)	270.3	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7551.5	7551.5	7551.5	7551.5	7551.5	7551.5	7551.5	7551.5	7551.5	7551.5	7551.5
2.5°	7409.0	7395.0	7389.0	7408.0	7421.9	7437.9	7460.8	7482.7	7485.7	7514.6	7552.5
5°	7498.7	7486.7	7473.7	7470.8	7465.8	7464.8	7470.8	7495.7	7501.7	7529.6	7611.3
7.5°	7698.0	7686.1	7662.1	7653.2	7626.3	7578.4	7555.5	7568.4	7571.4	7605.3	7707.0
10°	8023.0	7986.1	7957.2	7927.3	7842.6	7766.8	7711.0	7687.1	7682.1	7715.0	7832.6
12.5°	8410.7	8379.8	8347.9	8269.2	8161.5	8025.0	7926.3	7871.5	7867.5	7895.4	7984.1
15°	8820.4	8820.4	8798.5	8704.8	8599.1	8372.8	8220.3	8128.6	8134.6	8156.5	8197.4
17.5°	9349.7	9305.8	9295.8	9189.2	9071.6	8865.2	8623.0	8476.5	8483.5	8493.4	8462.5
20°	9887.9	9875.0	9860.0	9789.2	9682.6	9417.4	9145.3	8952.9	8953.9	8918.1	8780.5
22.5°	10599.6	10556.7	10567.7	10488.0	10343.4	10071.3	9758.3	9530.1	9545.0	9493.2	9244.0
25°	11306.3	11263.5	11240.5	11186.7	11062.1	10803.9	10432.2	10222.8	10204.9	10111.2	9749.4
27.5°	12012.0	11987.1	12006.0	11941.3	11839.6	11551.5	11210.6	10978.4	10990.3	10925.5	10386.3
30°	12742.7	12714.7	12797.5	12692.8	12630.0	12349.9	12023.0	11749.9	11759.8	11783.8	11178.7
32.5°	13293.9	13326.8	13471.3	13459.3	13447.4	13135.4	12791.5	12640.0	12654.9	12738.7	12119.7
35°	13826.1	13829.1	14032.5	14186.0	14250.8	13989.6	13632.8	13627.8	13725.5	13980.6	13431.4
37.5°	14267.7	14257.7	14528.9	14767.1	14944.5	14742.2	14545.8	14851.8	14940.5	15469.8	14752.1
40°	14508.9	14529.9	14878.7	15175.8	15524.6	15428.9	15449.9	16232.3	16450.6	16914.1	15739.9
42.5°	14339.5	14403.3	14946.5	15552.5	16078.8	16206.4	16627.0	17723.5	17816.2	17899.9	16711.8
45°	14055.4	14122.2	14724.2	15703.0	16536.3	17075.6	17798.2	18870.8	18972.4	18878.7	17520.2
47.5°	13759.4	13828.1	14499.0	15642.2	16915.1	17948.8	18839.9	19885.5	20015.1	19725.0	18297.6
50°	13383.6	13490.2	14223.8	15513.7	17222.1	18890.7	19825.7	20930.1	20989.9	20571.3	18886.7
52.5°	12921.1	13038.7	13832.1	15293.4	17462.3	19548.6	20823.4	22063.4	22057.4	21560.0	19560.5
55°	12434.7	12541.3	13358.7	14946.5	17596.9	20054.9	21620.8	23312.4	23384.1	22967.5	20170.6
57.5°	11811.7	11908.4	12799.5	14480.0	17457.4	20484.5	22912.7	24796.5	24832.4	23947.3	20656.0
60°	10986.4	11128.9	12024.0	13886.9	17056.7	20981.9	24336.0	26357.5	26401.3	24911.2	20968.0
62.5°	10080.3	10137.1	11049.1	12973.9	16473.5	21365.7	25322.8	27578.5	27514.7	25664.7	21061.7
65°	8975.9	9020.7	9810.2	11799.7	15390.1	21155.4	25676.7	28206.5	28127.7	26138.2	20773.6
67.5°	7819.6	7958.2	8578.2	10171.0	13878.0	20184.5	25377.7	28386.9	28347.0	26174.1	20085.8
70°	6318.5	6367.3	6927.5	8286.1	11579.4	18240.8	24380.9	27924.4	27893.5	25372.7	18681.4
72.5°	4455.5	4407.7	4679.8	5745.4	8363.9	14509.9	20816.5	25325.8	25377.7	22697.4	16268.2
75°	2365.3	2457.0	2880.7	3517.6	4741.6	9327.7	16596.1	20960.0	20942.0	18979.4	12859.3
77.5°	1259.9	1257.9	1549.0	1821.1	2321.5	4286.1	10946.5	15806.7	15894.4	14705.3	8829.4
80°	605.0	628.0	645.9	740.6	1157.2	1980.6	4579.1	9166.3	9764.3	8770.5	4194.4
82.5°	484.4	486.4	488.4	467.5	478.4	806.4	1764.3	2652.4	2748.1	2208.8	1352.6
85°	358.8	336.9	333.9	283.1	320.0	484.4	890.1	1132.3	1076.5	1047.6	763.5
87.5°	144.5	135.6	131.6	123.6	123.6	182.4	314.0	409.7	408.7	372.8	256.2
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°	7551.5	7551.5	7551.5	7551.5	7551.5	7551.5	7551.5	7551.5	7551.5	7551.5	7551.5
2.5°	7582.4	7618.3	7702.0	7773.8	7800.7	7866.5	7928.3	7964.2	7989.1	8004.0	8071.8
5°	7661.1	7732.9	7866.5	7967.1	8064.8	8186.4	8265.2	8315.0	8342.9	8358.9	8407.7
7.5°	7781.8	7854.5	7996.1	8150.6	8240.3	8339.9	8390.8	8426.7	8444.6	8439.6	8478.5
10°	7889.4	7961.2	8102.7	8221.3	8272.2	8329.0	8355.9	8363.9	8364.9	8368.8	8407.7
12.5°	8035.9	8079.8	8155.5	8233.3	8222.3	8224.3	8247.2	8237.3	8214.3	8210.4	8236.3
15°	8193.4	8194.4	8200.4	8183.4	8114.7	8084.8	8052.9	8026.0	7963.2	7959.2	8000.0
17.5°	8390.8	8343.9	8235.3	8119.7	7956.2	7843.5	7729.9	7683.1	7606.3	7591.4	7611.3
20°	8644.9	8547.3	8283.1	7996.1	7690.0	7488.7	7351.1	7212.6	7105.9	7080.0	7099.0
22.5°	9009.8	8817.4	8343.9	7864.5	7391.0	7047.1	6780.0	6613.5	6434.1	6342.4	6351.4
25°	9450.3	9149.3	8449.6	7698.0	7039.2	6542.8	6109.2	5775.3	5572.9	5438.4	5474.2
27.5°	10027.5	9613.8	8576.2	7533.6	6601.6	5897.9	5268.9	4816.4	4610.0	4546.2	4504.4
30°	10696.3	10175.0	8709.7	7290.3	6129.1	5099.5	4294.1	3917.3	3681.1	3643.2	3611.3
32.5°	11591.4	10881.7	8959.9	7026.2	5564.9	4301.0	3426.9	2993.3	2939.5	2908.6	2901.6
35°	12745.6	11807.7	9222.1	6683.3	4829.3	3365.1	2592.6	2358.3	2332.4	2366.3	2369.3
37.5°	13970.7	12812.4	9536.1	6296.6	3983.1	2510.9	1983.6	1821.1	1850.0	1955.7	1979.6
40°	14800.0	13474.3	9821.1	5771.3	2937.5	1824.1	1443.3	1408.4	1567.9	1703.5	1731.4
42.5°	15595.4	13975.7	9936.8	5076.5	2095.2	1298.8	1165.2	1284.8	1508.1	1656.6	1676.6
45°	16274.2	14558.8	9645.7	4243.2	1420.4	1085.5	1116.4	1281.8	1530.0	1694.5	1709.5
47.5°	16920.1	15035.2	9248.0	3343.2	1120.4	1044.6	1115.4	1308.8	1578.9	1734.4	1743.3
50°	17537.1	15398.0	8569.2	2543.7	1049.6	1025.7	1124.4	1350.6	1605.8	1703.5	1699.5
52.5°	17994.6	15585.4	7846.5	2053.3	1021.7	1010.7	1148.3	1403.4	1610.8	1669.6	1665.6
55°	18330.5	15549.5	7372.1	1681.5	998.8	1004.7	1187.1	1443.3	1658.6	1747.3	1744.3
57.5°	18361.4	15387.1	6832.8	1420.4	970.8	1003.7	1229.0	1499.1	1897.8	2061.3	2011.5
60°	18324.5	15117.9	6294.6	1247.0	940.0	1009.7	1272.9	1666.6	2242.7	2371.3	2336.4
62.5°	18143.1	14616.6	5488.2	1132.3	913.0	1031.7	1305.8	1799.2	2225.8	2240.7	2190.9
65°	17582.9	13945.7	4429.6	1016.7	886.1	1046.6	1332.7	1834.0	2044.4	1996.5	1971.6
67.5°	16474.5	12447.6	3416.9	911.0	851.2	1043.6	1412.4	1784.2	1975.6	1940.7	1908.8
70°	14899.7	10745.1	2372.3	802.4	792.4	1024.7	1392.5	1801.2	1942.7	1888.9	1846.0
72.5°	12447.6	8429.6	1509.1	713.7	704.7	979.8	1342.6	1790.2	1920.8	1896.8	1838.0
75°	9372.6	5883.9	958.9	617.0	627.0	898.1	1262.9	1731.4	1909.8	1835.0	1722.4
77.5°	5900.9	2904.6	745.6	524.3	539.3	774.5	1091.5	1512.1	1833.1	1788.2	1643.7
80°	2231.8	1179.2	583.1	425.6	438.6	602.0	895.1	1244.0	1687.5	1761.3	1699.5
82.5°	1027.7	737.6	437.6	341.9	346.9	438.6	667.8	921.0	1428.4	1616.8	1771.3
85°	600.1	483.4	292.1	228.3	237.2	259.2	375.8	562.2	926.0	1233.0	1379.5
87.5°	204.3	168.5	113.6	96.7	93.7	106.7	90.7	184.4	275.1	484.4	553.2
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)