

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: P510419

Luminaire Tested: **CST-CA10-210-730-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510419
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-CA10-210-730-U-T3
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34339 lumens
Efficiency: N/A
Efficacy: 161.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

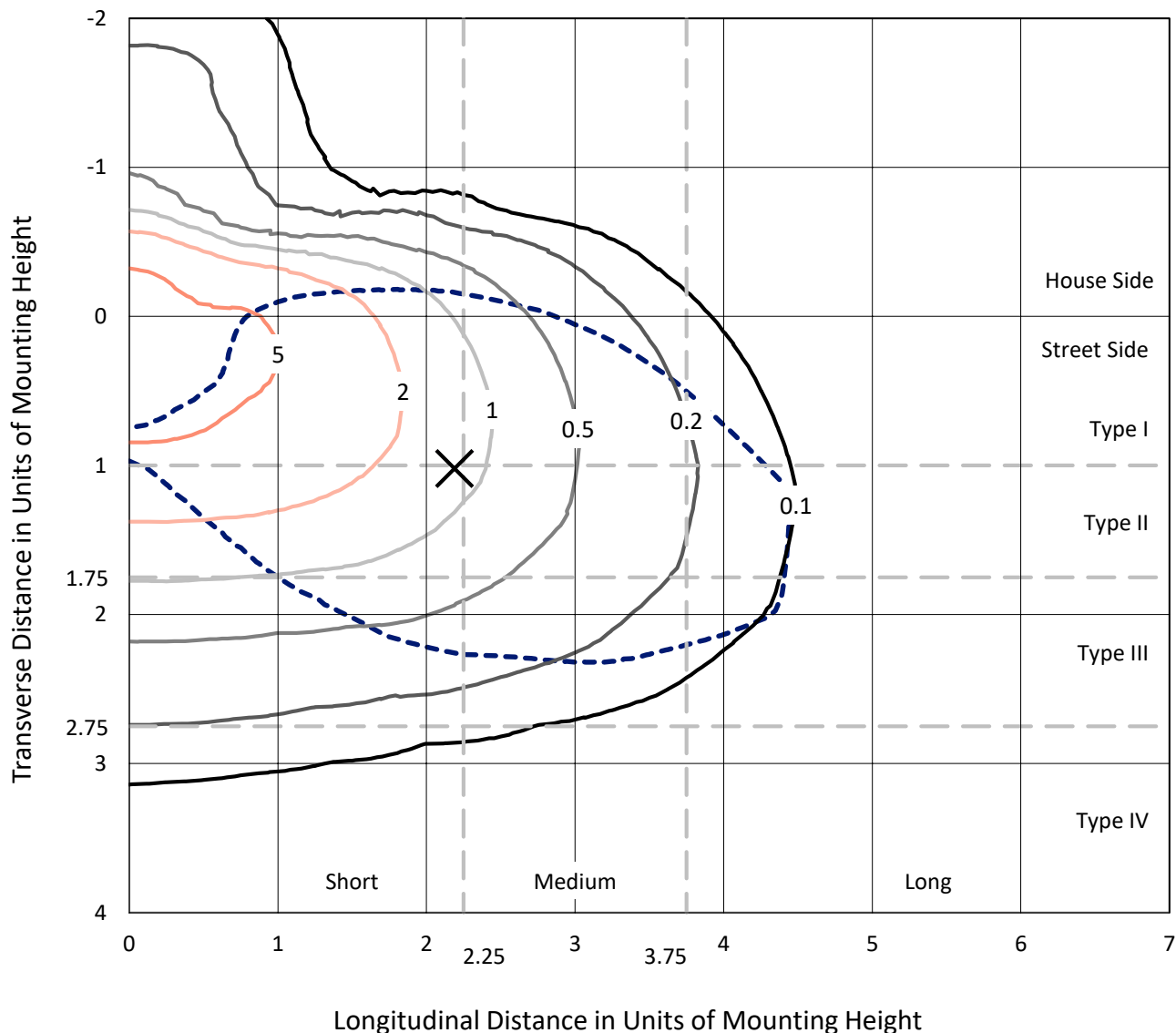
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

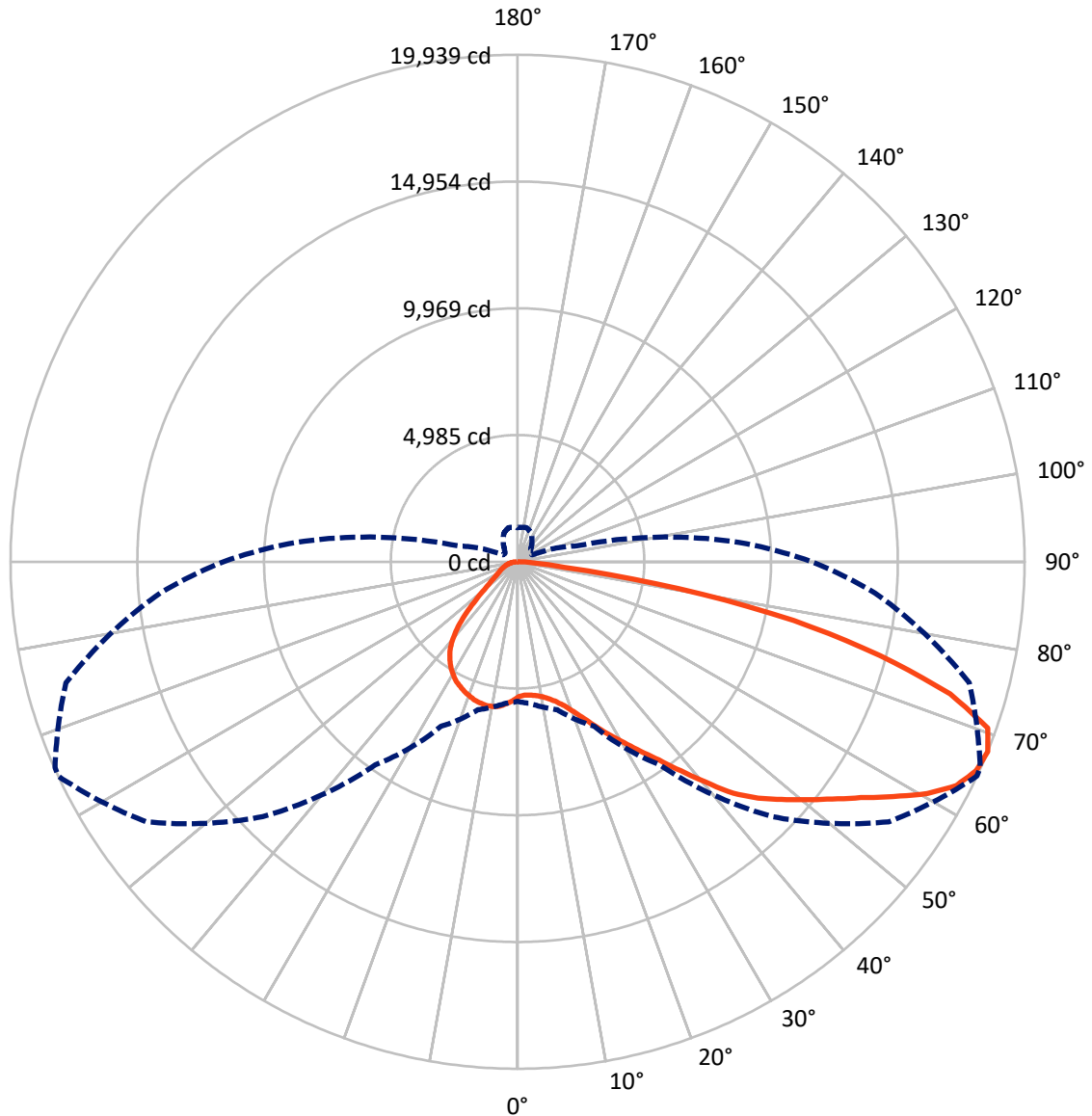
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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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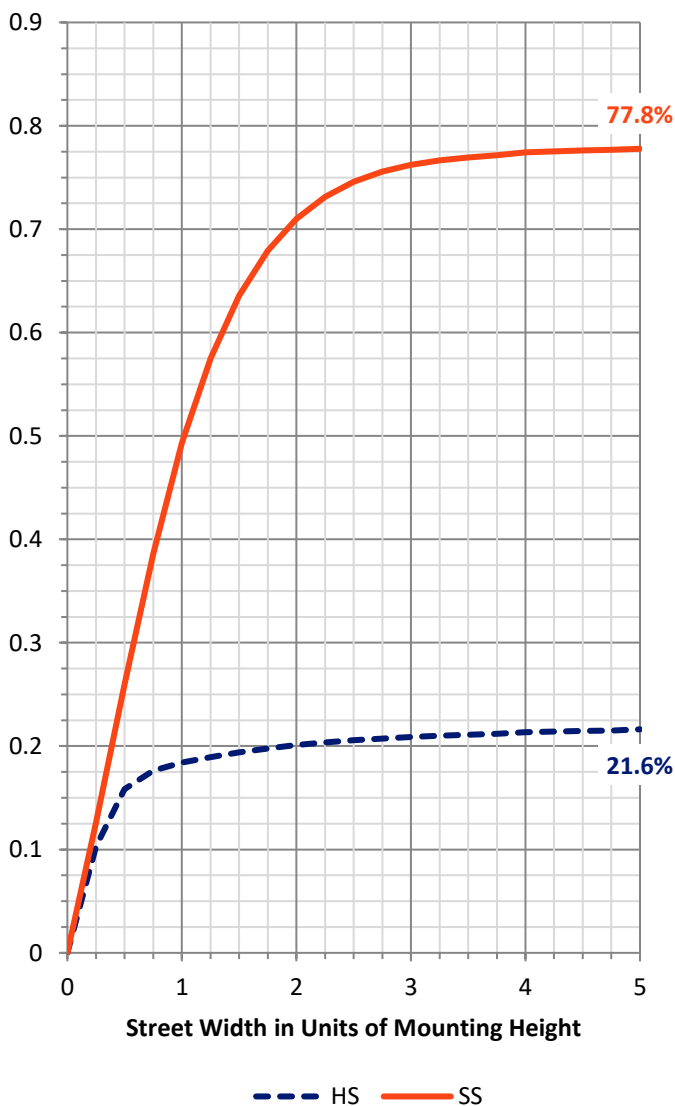
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7585.0	0.0	7585.0
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	26753.9	0.0	26753.9
	% Fixture	77.9	0.0	77.9
Total	Lumens	34339.0	0.0	34339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.5	1.5
10°-20°	1651.1	4.8
20°-30°	2858.3	8.3
30°-40°	4200.0	12.2
40°-50°	5676.8	16.5
50°-60°	6980.8	20.3
60°-70°	7480.3	21.8
70°-80°	4411.8	12.8
80°-90°	551.5	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°	34339.0	100.0
0°-180°	34339.0	100.0

Coefficient of Utilization

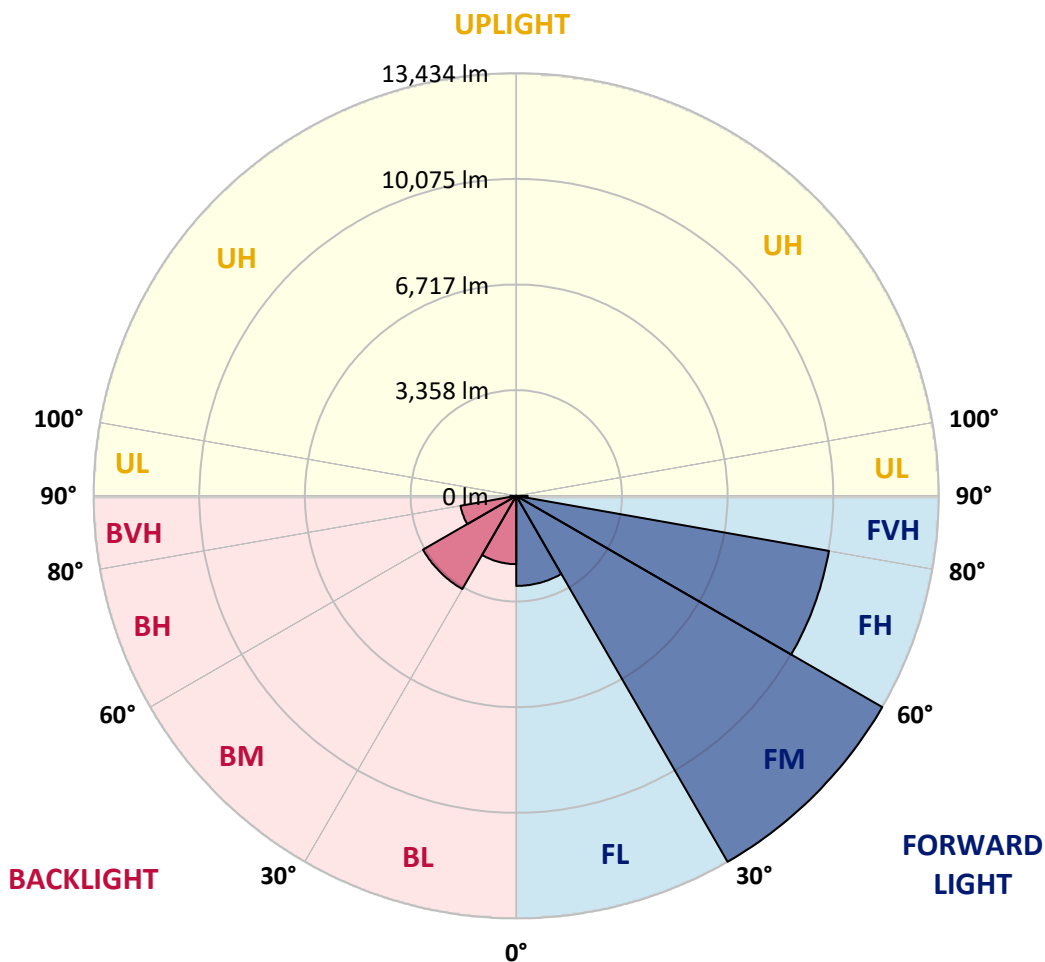


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2865.3	8.3			
FM (30°-60°)	13433.7	39.1			
FH (60°-80°)	10093.4	29.4			G4/12000
FVH (80°-90°)	361.6	1.1			G3/500
BL (0°-30°)	2172.6	6.3	B3/2500		
BM (30°-60°)	3423.9	10.0	B3/5000		
BH (60°-80°)	1798.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	189.8	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°	5304.1	5304.1	5304.1	5304.1	5304.1	5304.1	5304.1	5304.1	5304.1	5304.1	5304.1
2.5°	5204.0	5194.2	5190.0	5203.3	5213.1	5224.3	5240.4	5255.8	5257.9	5278.2	5304.8
5°	5267.0	5258.6	5249.5	5247.4	5243.9	5243.2	5247.4	5264.9	5269.1	5288.7	5346.1
7.5°	5407.0	5398.6	5381.8	5375.5	5356.6	5323.0	5306.9	5316.0	5318.1	5341.9	5413.3
10°	5635.2	5609.3	5589.0	5568.0	5508.5	5455.3	5416.1	5399.3	5395.8	5418.9	5501.5
12.5°	5907.6	5885.9	5863.5	5808.2	5732.5	5636.6	5567.3	5528.8	5526.0	5545.6	5607.9
15°	6195.3	6195.3	6179.9	6114.1	6039.9	5881.0	5773.9	5709.4	5713.6	5729.0	5757.7
17.5°	6567.1	6536.3	6529.3	6454.4	6371.7	6226.8	6056.7	5953.8	5958.7	5965.7	5944.0
20°	6945.1	6936.0	6925.5	6875.8	6800.9	6614.7	6423.6	6288.4	6289.1	6263.9	6167.3
22.5°	7445.0	7414.9	7422.6	7366.6	7265.1	7074.0	6854.1	6693.8	6704.3	6667.9	6492.9
25°	7941.4	7911.3	7895.2	7857.4	7769.9	7588.6	7327.4	7180.4	7167.8	7102.0	6847.8
27.5°	8437.1	8419.6	8432.9	8387.4	8316.0	8113.6	7874.2	7711.1	7719.5	7674.0	7295.2
30°	8950.3	8930.7	8988.8	8915.3	8871.2	8674.4	8444.8	8253.0	8260.0	8276.8	7851.8
32.5°	9337.4	9360.5	9462.1	9453.7	9445.3	9226.1	8984.6	8878.2	8888.7	8947.5	8512.7
35°	9711.3	9713.4	9856.2	9964.0	10009.5	9826.1	9575.5	9572.0	9640.6	9819.8	9434.1
37.5°	10021.5	10014.4	10204.9	10372.2	10496.8	10354.7	10216.8	10431.7	10494.0	10865.8	10361.7
40°	10190.9	10205.6	10450.6	10659.3	10904.3	10837.1	10851.8	11401.4	11554.7	11880.3	11055.5
42.5°	10071.9	10116.7	10498.2	10923.9	11293.6	11383.2	11678.6	12448.8	12513.9	12572.7	11738.1
45°	9872.3	9919.2	10342.1	11029.6	11614.9	11993.7	12501.3	13254.6	13326.0	13260.2	12305.9
47.5°	9664.4	9712.7	10183.9	10986.9	11881.0	12607.0	13232.9	13967.3	14058.3	13854.6	12852.0
50°	9400.4	9475.4	9990.6	10896.6	12096.6	13268.6	13925.3	14701.0	14743.0	14449.0	13265.8
52.5°	9075.6	9158.2	9715.5	10741.9	12265.3	13730.7	14626.1	15497.1	15492.9	15143.5	13739.1
55°	8733.9	8808.9	9382.9	10498.2	12359.8	14086.3	15186.2	16374.3	16424.7	16132.1	14167.5
57.5°	8296.4	8364.3	8990.2	10170.6	12261.8	14388.1	16093.6	17416.8	17442.0	16820.3	14508.5
60°	7716.7	7816.8	8445.5	9754.0	11980.4	14737.4	17093.3	18513.1	18544.0	17497.3	14727.6
62.5°	7080.3	7120.2	7760.8	9112.7	11570.8	15007.0	17786.4	19370.8	19326.0	18026.6	14793.4
65°	6304.5	6336.0	6890.5	8288.0	10809.8	14859.2	18035.0	19811.9	19756.6	18359.1	14591.1
67.5°	5492.4	5589.7	6025.2	7144.0	9747.7	14177.3	17824.9	19938.6	19910.6	18384.3	14108.0
70°	4438.0	4472.3	4865.8	5820.1	8133.2	12812.1	17124.8	19613.7	19592.0	17821.4	13121.6
72.5°	3129.5	3095.9	3287.0	4035.5	5874.7	10191.6	14621.2	17788.5	17824.9	15942.3	11426.6
75°	1661.4	1725.8	2023.3	2470.7	3330.4	6551.7	11656.9	14722.0	14709.4	13330.9	9032.2
77.5°	884.9	883.5	1088.0	1279.1	1630.6	3010.5	7688.7	11102.4	11164.0	10328.8	6201.6
80°	425.0	441.1	453.7	520.2	812.8	1391.1	3216.3	6438.3	6858.3	6160.3	2946.1
82.5°	340.3	341.7	343.1	328.4	336.1	566.4	1239.2	1863.0	1930.2	1551.5	950.1
85°	252.0	236.6	234.5	198.8	224.7	340.3	625.2	795.3	756.1	735.8	536.3
87.5°	101.5	95.2	92.4	86.8	86.8	128.1	220.5	287.7	287.0	261.8	179.9
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°	5304.1	5304.1	5304.1	5304.1	5304.1	5304.1	5304.1	5304.1	5304.1	5304.1	5304.1
2.5°	5325.8	5351.0	5409.8	5460.2	5479.1	5525.3	5568.7	5593.9	5611.4	5621.9	5669.5
5°	5381.1	5431.5	5525.3	5596.0	5664.6	5750.0	5805.4	5840.4	5860.0	5871.2	5905.5
7.5°	5465.8	5516.9	5616.3	5724.8	5787.9	5857.9	5893.6	5918.8	5931.4	5927.9	5955.2
10°	5541.4	5591.8	5691.2	5774.6	5810.3	5850.2	5869.1	5874.7	5875.4	5878.2	5905.5
12.5°	5644.3	5675.1	5728.3	5783.0	5775.3	5776.7	5792.8	5785.8	5769.7	5766.8	5785.1
15°	5754.9	5755.6	5759.8	5747.9	5699.6	5678.6	5656.2	5637.3	5593.2	5590.4	5619.1
17.5°	5893.6	5860.7	5784.4	5703.1	5588.3	5509.2	5429.4	5396.5	5342.6	5332.1	5346.1
20°	6072.1	6003.5	5818.0	5616.3	5401.4	5260.0	5163.4	5066.0	4991.1	4972.9	4986.2
22.5°	6328.3	6193.2	5860.7	5523.9	5191.4	4949.8	4762.2	4645.3	4519.2	4454.8	4461.1
25°	6637.8	6426.4	5934.9	5407.0	4944.2	4595.6	4291.0	4056.5	3914.3	3819.8	3845.0
27.5°	7043.2	6752.6	6023.8	5291.5	4636.9	4142.6	3700.8	3383.0	3238.0	3193.2	3163.8
30°	7512.9	7146.8	6117.6	5120.6	4305.0	3581.8	3016.1	2751.5	2585.5	2558.9	2536.5
32.5°	8141.6	7643.2	6293.3	4935.1	3908.7	3021.0	2407.0	2102.4	2064.6	2042.9	2038.0
35°	8952.4	8293.6	6477.5	4694.3	3392.1	2363.6	1821.0	1656.5	1638.3	1662.1	1664.2
37.5°	9812.8	8999.3	6698.0	4422.6	2797.7	1763.6	1393.2	1279.1	1299.4	1373.6	1390.4
40°	10395.3	9464.2	6898.2	4053.7	2063.2	1281.2	1013.8	989.3	1101.3	1196.5	1216.1
42.5°	10954.0	9816.3	6979.4	3565.7	1471.6	912.3	818.4	902.4	1059.3	1163.6	1177.6
45°	11430.8	10225.9	6775.0	2980.4	997.7	762.4	784.1	900.3	1074.7	1190.2	1200.7
47.5°	11884.5	10560.5	6495.7	2348.2	786.9	733.7	783.4	919.3	1109.0	1218.2	1224.5
50°	12317.8	10815.4	6018.9	1786.7	737.2	720.4	789.7	948.7	1127.9	1196.5	1193.7
52.5°	12639.2	10947.0	5511.3	1442.2	717.6	709.9	806.5	985.8	1131.4	1172.7	1169.9
55°	12875.1	10921.8	5178.1	1181.1	701.5	705.7	833.8	1013.8	1165.0	1227.3	1225.2
57.5°	12896.8	10807.7	4799.3	997.7	681.9	705.0	863.2	1053.0	1333.0	1447.8	1412.8
60°	12870.9	10618.6	4421.2	875.8	660.2	709.2	894.0	1170.6	1575.3	1665.6	1641.1
62.5°	12743.5	10266.5	3854.8	795.3	641.3	724.6	917.2	1263.7	1563.4	1573.9	1538.9
65°	12350.0	9795.3	3111.3	714.1	622.4	735.1	936.1	1288.2	1435.9	1402.3	1384.8
67.5°	11571.5	8743.0	2400.0	639.9	597.9	733.0	992.1	1253.2	1387.6	1363.1	1340.7
70°	10465.3	7547.2	1666.3	563.6	556.6	719.7	978.1	1265.1	1364.5	1326.7	1296.6
72.5°	8743.0	5920.9	1060.0	501.3	495.0	688.2	943.1	1257.4	1349.1	1332.3	1291.0
75°	6583.2	4132.8	673.5	433.4	440.4	630.8	887.0	1216.1	1341.4	1288.9	1209.8
77.5°	4144.7	2040.1	523.7	368.3	378.8	544.0	766.6	1062.1	1287.5	1256.0	1154.5
80°	1567.6	828.2	409.6	298.9	308.1	422.9	628.7	873.7	1185.3	1237.1	1193.7
82.5°	721.8	518.1	307.4	240.1	243.6	308.1	469.1	646.9	1003.3	1135.6	1244.1
85°	421.5	339.6	205.1	160.3	166.6	182.0	263.9	394.9	650.4	866.0	969.0
87.5°	143.5	118.3	79.8	67.9	65.8	74.9	63.7	129.5	193.2	340.3	388.6
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)