

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: P510757

Luminaire Tested: **CST-CA8-330-722-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-10)
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-T2
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: 39599 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

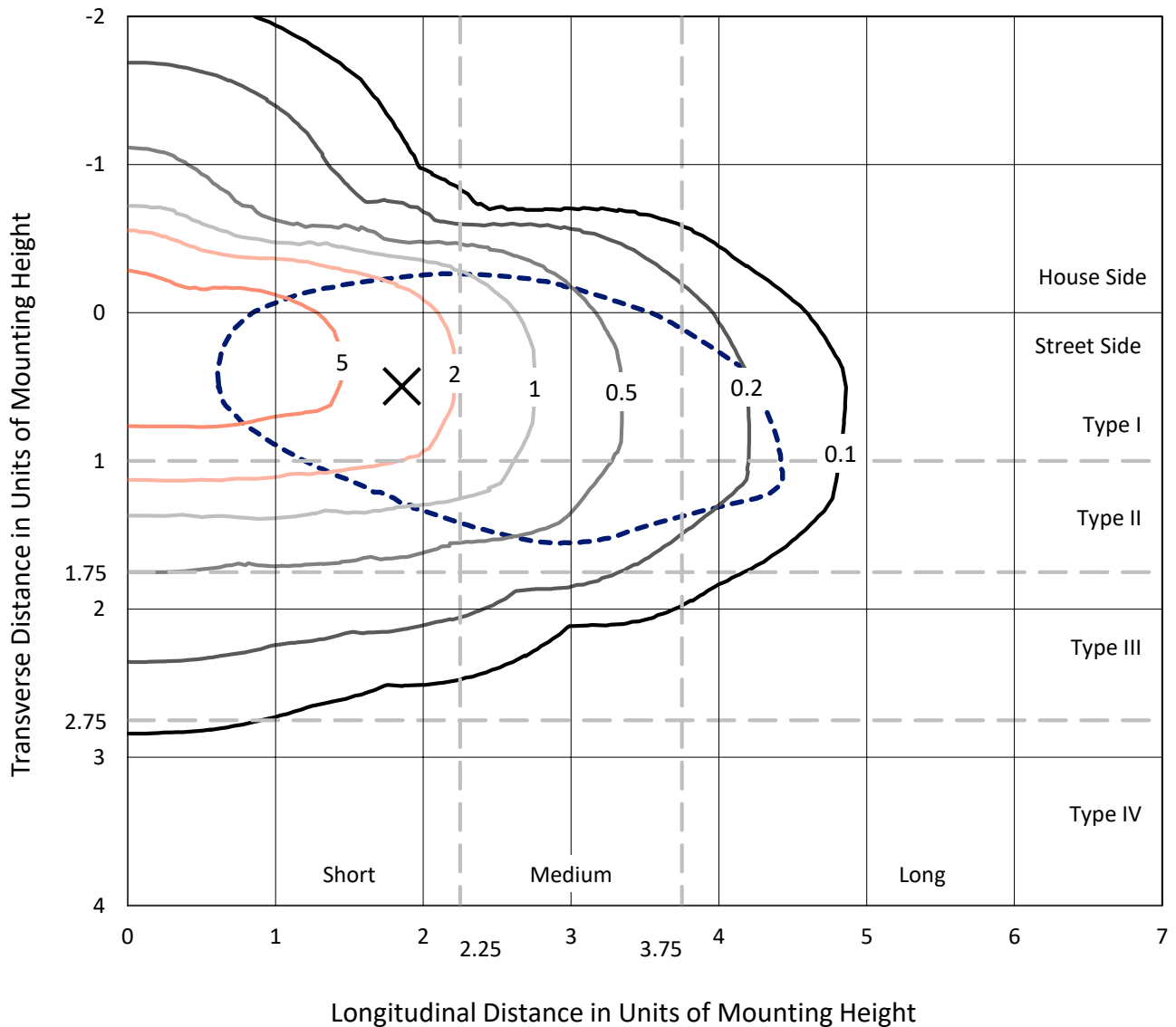
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510757
 CATALOG NUMBER: CST-CA8-330-722-U-T2

Iso-Footcandle Lines of Horizontal Illumination

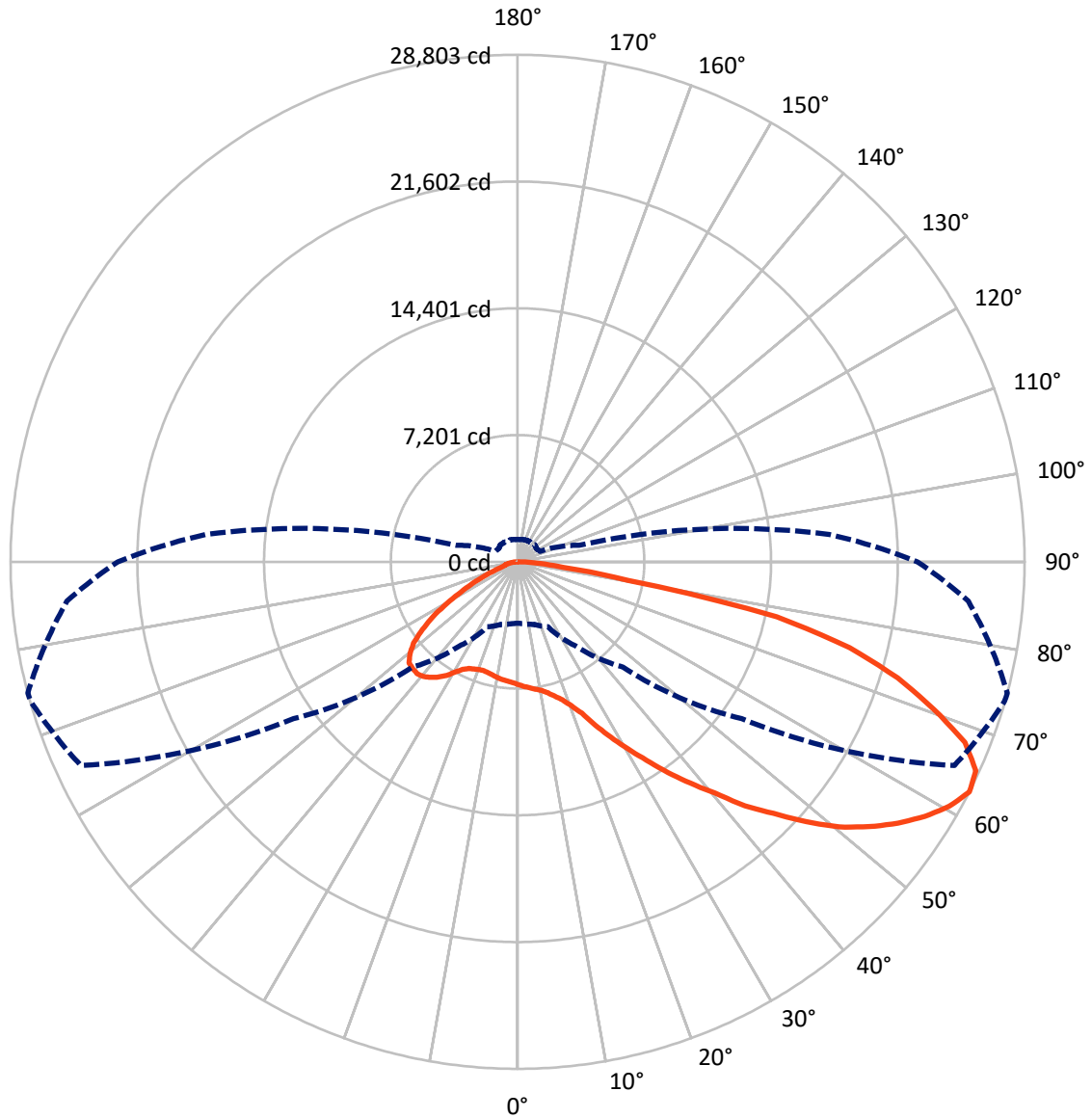
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

REPORT NUMBER: P510757
CATALOG NUMBER: CST-CA8-330-722-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P510757
 CATALOG NUMBER: CST-CA8-330-722-U-T2

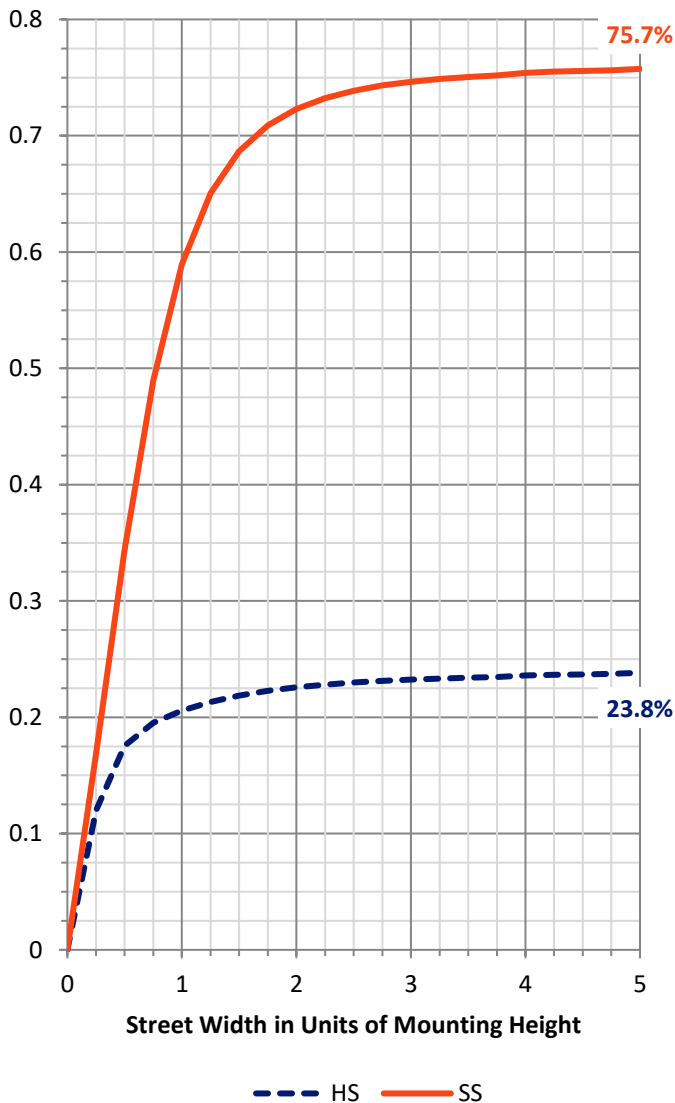
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9594.1	0.0	9594.1
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	30004.9	0.0	30004.9
	% Fixture	75.8	0.0	75.8
Total	Lumens	39599.0	0.0	39599.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	671.5	1.7
10°-20°	2038.1	5.1
20°-30°	3515.2	8.9
30°-40°	5183.2	13.1
40°-50°	6832.5	17.3
50°-60°	8041.3	20.3
60°-70°	8000.3	20.2
70°-80°	4665.5	11.8
80°-90°	651.4	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°	39599.0	100.0
0°-180°	39599.0	100.0

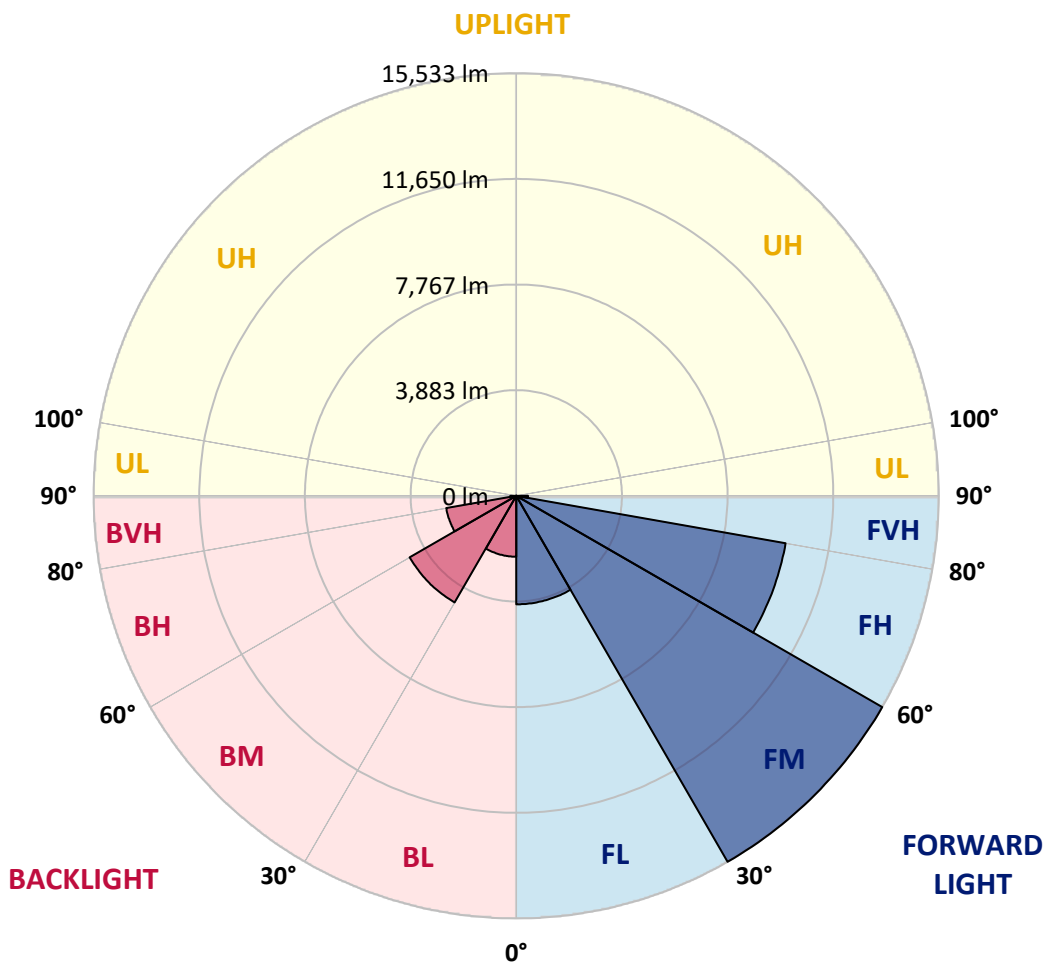


REPORT NUMBER: P510757
 CATALOG NUMBER: CST-CA8-330-722-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3987.5	10.1			
FM (30°-60°)	15533.1	39.2			
FH (60°-80°)	10052.1	25.4			G4/12000
FVH (80°-90°)	432.3	1.1			G3/500
BL (0°-30°)	2237.3	5.6	B3/2500		
BM (30°-60°)	4523.9	11.4	B3/5000		
BH (60°-80°)	2613.8	6.6	B4/5000		G4/5000
BVH (80°-90°)	219.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





REPORT NUMBER: P510757
 CATALOG NUMBER: CST-CA8-330-722-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	6980.4	6980.4	6980.4	6980.4	6980.4	6980.4	6980.4	6980.4	6980.4	6980.4	6980.4
2.5°	7362.6	7332.5	7336.6	7315.4	7283.6	7259.9	7198.0	7131.2	7091.2	7088.0	7030.9
5°	7732.6	7742.4	7744.9	7677.2	7610.4	7534.6	7440.1	7311.3	7206.2	7189.9	7079.0
7.5°	8070.0	8069.2	8064.3	8026.8	7995.9	7883.4	7694.3	7492.2	7321.1	7305.6	7125.5
10°	8415.6	8413.2	8364.3	8301.5	8231.4	8127.9	7965.7	7723.7	7446.6	7426.2	7168.7
12.5°	8792.1	8765.2	8734.3	8658.5	8575.3	8396.0	8225.7	7962.5	7673.1	7636.5	7245.3
15°	9102.6	9074.9	9031.7	8980.4	8893.2	8756.3	8575.3	8263.2	7952.7	7916.8	7417.2
17.5°	9409.9	9396.8	9365.9	9311.3	9244.4	9126.3	8960.0	8695.1	8288.5	8244.5	7703.3
20°	9661.7	9630.8	9607.9	9633.2	9638.9	9551.7	9460.4	9237.9	8789.7	8722.0	8054.6
22.5°	9805.2	9798.6	9923.3	10016.2	10053.7	10073.3	10044.8	9865.5	9459.6	9341.4	8543.6
25°	9941.3	9930.7	10100.2	10332.5	10553.3	10665.8	10741.6	10765.2	10392.8	10286.0	9330.0
27.5°	9945.3	9974.7	10220.8	10610.4	10947.0	11290.1	11653.6	11695.1	11368.3	11283.6	10224.9
30°	9967.3	9980.4	10224.1	10671.5	11372.4	11922.5	12396.0	12629.9	12347.9	12308.8	11210.2
32.5°	9687.8	9704.9	10083.9	10778.3	11693.5	12576.9	13205.3	13552.5	13482.4	13432.7	12261.5
35°	9396.8	9411.5	9851.6	10626.7	11932.3	13171.1	13936.3	14618.5	14746.5	14709.0	13434.3
37.5°	8940.5	8989.4	9450.6	10445.7	11973.9	13607.9	14634.0	15680.4	16066.7	15954.3	14674.7
40°	8444.9	8480.8	9017.9	10066.8	11927.4	13894.8	15319.4	16855.6	17323.5	17263.1	15906.2
42.5°	7819.0	7915.2	8453.1	9582.7	11688.6	14073.3	15953.5	18188.2	18867.9	18948.5	17037.4
45°	7291.7	7289.3	7788.9	8881.8	11255.8	14115.6	16537.0	19535.3	20529.6	20378.0	18532.9
47.5°	6671.5	6696.8	7218.4	8184.1	10617.7	13981.2	16991.8	21127.8	22134.3	22052.0	19759.5
50°	5236.3	5418.1	6405.8	7584.3	9754.6	13606.3	17370.7	22678.8	23639.6	23677.1	20874.4
52.5°	4514.2	4584.3	5129.6	6980.4	8988.5	12977.1	17786.4	24423.7	25094.4	24999.0	22140.1
55°	4224.9	4262.4	4524.0	5895.6	8247.7	12003.2	17986.0	26017.0	26228.9	26213.4	23181.6
57.5°	4015.5	4044.0	4229.8	4920.1	7434.3	10753.0	17817.3	27053.6	27382.9	27281.8	24164.5
60°	3713.1	3735.9	4013.0	4433.6	6597.4	9490.6	16779.9	27523.9	28219.9	28182.4	25033.3
62.5°	3485.7	3524.8	3679.7	4074.1	5882.6	8450.6	15543.5	27377.2	28769.2	28802.6	25696.7
65°	3245.3	3280.3	3411.6	3756.3	5234.7	7766.9	14210.2	26642.1	28516.5	28605.4	25804.3
67.5°	2948.6	2975.5	3131.2	3429.5	4477.6	7083.1	12706.5	25342.2	27114.8	27400.8	24733.4
70°	2575.4	2585.2	2775.9	2978.8	3718.0	6052.1	10103.4	23214.2	25086.2	25091.9	22711.4
72.5°	2049.7	2057.9	2108.4	2262.4	2793.0	4789.7	7426.2	19396.8	22620.1	22578.5	20184.9
75°	1393.6	1465.4	1640.6	1787.3	2014.7	3363.5	4618.6	13068.4	19164.5	19490.5	16580.2
77.5°	1101.1	1107.6	1180.1	1314.6	1511.0	2512.6	2588.4	7230.6	14287.6	15062.7	13032.5
80°	767.7	779.1	740.0	772.6	1053.8	1719.6	1512.6	3146.7	5958.4	6361.8	7824.7
82.5°	365.9	379.0	435.2	404.2	524.0	731.0	798.7	1625.9	2573.7	2641.4	3046.4
85°	241.2	241.2	242.1	229.0	305.6	318.7	362.7	693.6	1256.7	1299.1	1291.8
87.5°	77.4	85.6	83.1	97.0	117.4	105.9	110.8	217.6	431.1	427.1	357.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P510757
 CATALOG NUMBER: CST-CA8-330-722-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6980.4	6980.4	6980.4	6980.4	6980.4	6980.4	6980.4	6980.4	6980.4	6980.4	6980.4
2.5°	6990.2	6956.8	6878.5	6810.1	6742.4	6691.1	6647.1	6588.4	6560.7	6535.4	6588.4
5°	7010.6	6951.1	6810.9	6670.7	6541.9	6447.4	6389.5	6347.2	6308.8	6308.8	6326.8
7.5°	7034.2	6953.5	6753.0	6554.2	6361.0	6253.4	6171.1	6117.3	6086.4	6088.0	6126.3
10°	7049.7	6925.8	6687.0	6418.9	6208.6	6035.8	5955.1	5877.7	5819.0	5784.0	5823.1
12.5°	7067.6	6916.8	6598.2	6295.8	6039.9	5844.3	5676.4	5618.5	5561.5	5517.5	5538.7
15°	7178.4	6951.1	6524.0	6139.3	5842.7	5599.0	5378.9	5273.0	5256.7	5226.5	5233.9
17.5°	7359.4	7043.2	6475.9	5947.8	5605.5	5317.8	5039.1	4902.2	4869.6	4854.1	4862.2
20°	7629.1	7218.4	6490.6	5813.3	5338.2	5016.3	4656.0	4495.5	4387.1	4393.6	4425.4
22.5°	8041.5	7501.2	6570.5	5665.8	5048.9	4626.7	4263.2	4044.8	3935.6	3912.0	3947.8
25°	8698.4	7956.8	6658.5	5524.8	4769.3	4206.2	3803.6	3567.2	3427.0	3418.1	3458.0
27.5°	9540.3	8655.2	6850.0	5402.6	4422.1	3700.9	3300.7	3098.6	2949.5	2931.5	2918.5
30°	10401.7	9431.1	7196.4	5216.8	4017.1	3179.3	2831.3	2673.2	2506.1	2438.5	2453.1
32.5°	11314.5	10154.0	7602.2	5086.4	3564.0	2720.4	2418.1	2267.3	2114.1	2016.3	1993.5
35°	12233.8	10872.8	7943.7	4891.6	3134.5	2356.1	2066.8	1911.2	1777.5	1697.6	1691.9
37.5°	13309.6	11621.0	8217.6	4684.6	2688.7	2070.9	1722.9	1633.2	1568.9	1498.8	1506.1
40°	14387.0	12493.0	8436.8	4342.3	2318.6	1764.5	1466.2	1484.1	1498.0	1439.3	1434.4
42.5°	15281.9	13225.7	8537.0	3898.9	1991.0	1498.0	1352.9	1434.4	1494.7	1456.4	1451.5
45°	16190.6	13842.6	8497.9	3348.8	1718.8	1370.8	1343.9	1427.0	1504.5	1495.5	1491.4
47.5°	17178.4	14651.1	8430.3	2722.1	1524.0	1358.6	1363.5	1402.6	1500.4	1516.7	1510.2
50°	18386.2	15395.2	8030.1	2119.8	1429.5	1378.2	1407.5	1387.1	1470.2	1503.7	1509.4
52.5°	19588.3	15968.1	7494.7	1837.0	1392.0	1396.9	1468.6	1399.3	1436.0	1465.4	1492.2
55°	20515.8	16551.7	6628.3	1666.7	1379.8	1405.9	1485.7	1425.4	1424.6	1424.6	1433.6
57.5°	21465.2	17333.2	5762.0	1556.6	1358.6	1415.6	1465.4	1430.3	1418.9	1402.6	1392.0
60°	22126.2	17622.6	4648.7	1484.1	1336.6	1401.8	1408.3	1403.4	1368.4	1352.9	1340.7
62.5°	22713.0	17779.8	3619.4	1401.0	1306.4	1369.2	1335.0	1324.4	1304.0	1266.5	1273.0
65°	22555.7	17442.4	2757.9	1307.2	1285.2	1330.1	1270.6	1245.3	1246.9	1207.8	1220.9
67.5°	21543.5	15929.0	1980.4	1163.8	1227.4	1252.6	1197.2	1178.5	1150.8	1131.2	1149.1
70°	19498.7	14120.5	1335.8	965.8	1095.3	1150.0	1113.3	1080.7	1037.5	1024.4	1044.0
72.5°	16411.5	11787.2	921.8	776.7	945.4	1016.3	1002.4	969.0	938.1	969.8	1008.1
75°	13482.4	8720.4	752.2	636.5	727.0	846.8	887.5	897.3	990.2	1299.9	1331.7
77.5°	9704.9	5405.8	676.4	517.5	580.3	677.3	758.8	792.2	1209.4	1158.1	1155.7
80°	5658.5	3150.8	515.9	408.3	469.4	496.3	593.3	929.9	1043.2	894.9	872.9
82.5°	2581.9	1390.4	359.4	326.8	326.0	328.4	404.2	894.9	800.3	705.0	678.9
85°	949.5	489.0	218.4	189.1	216.8	188.3	264.9	656.1	463.7	456.4	380.6
87.5°	233.9	100.2	74.2	61.9	50.5	48.1	80.7	216.0	113.3	103.5	99.4
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)