

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: P510610

Luminaire Tested: **CST-CA10-760-740-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-760-740-U-T4-HSS
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: 94269 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

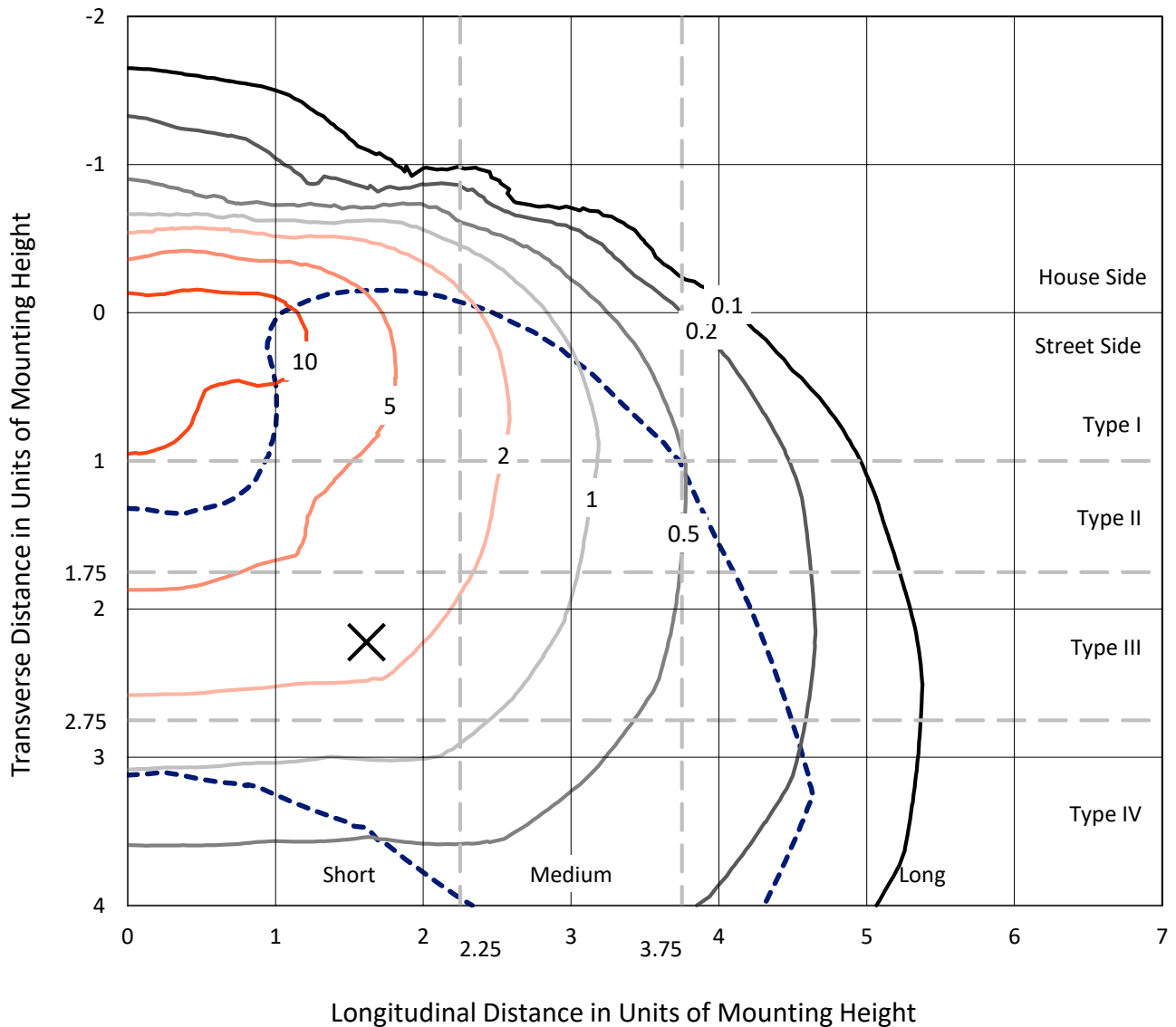
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

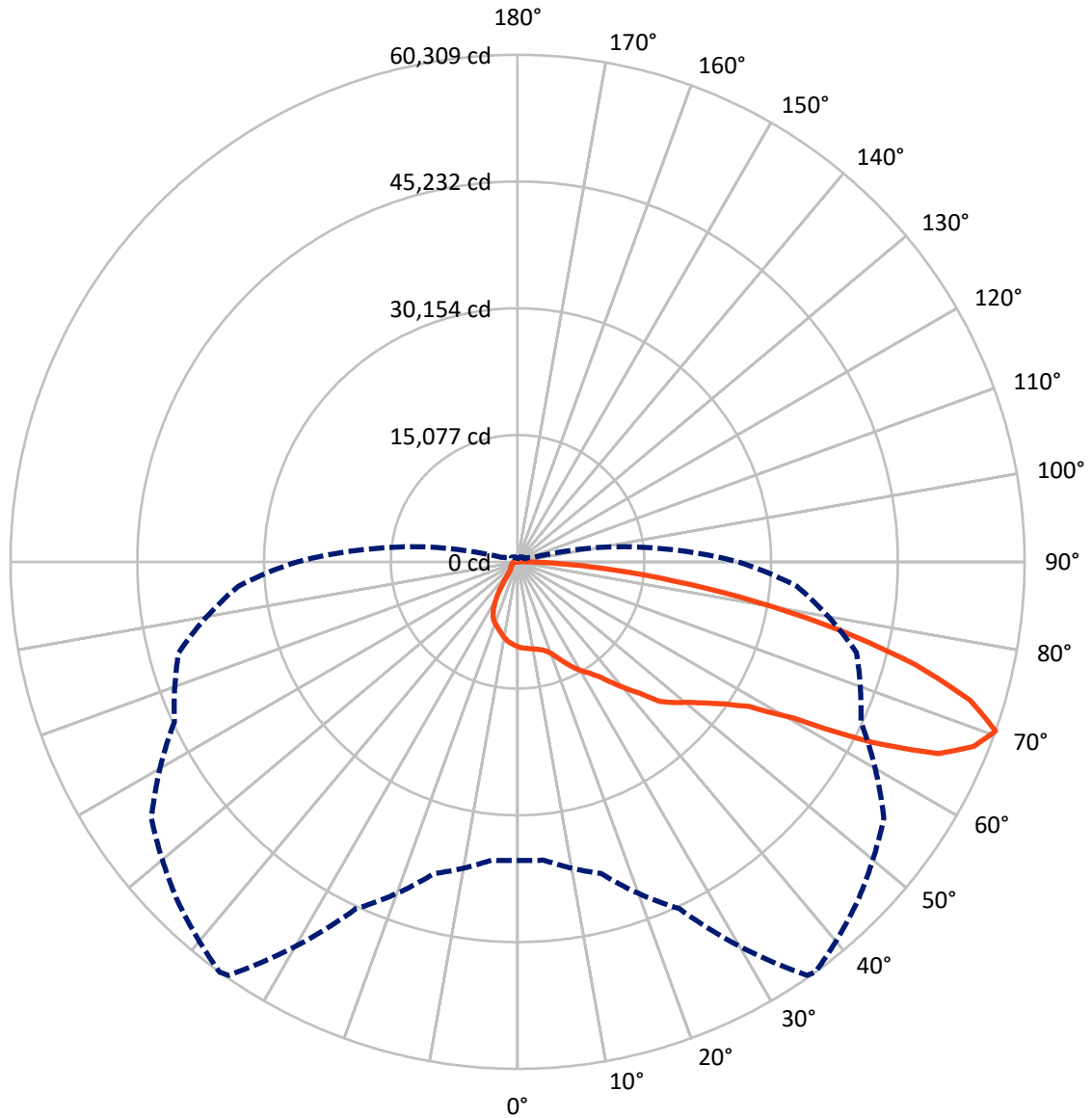
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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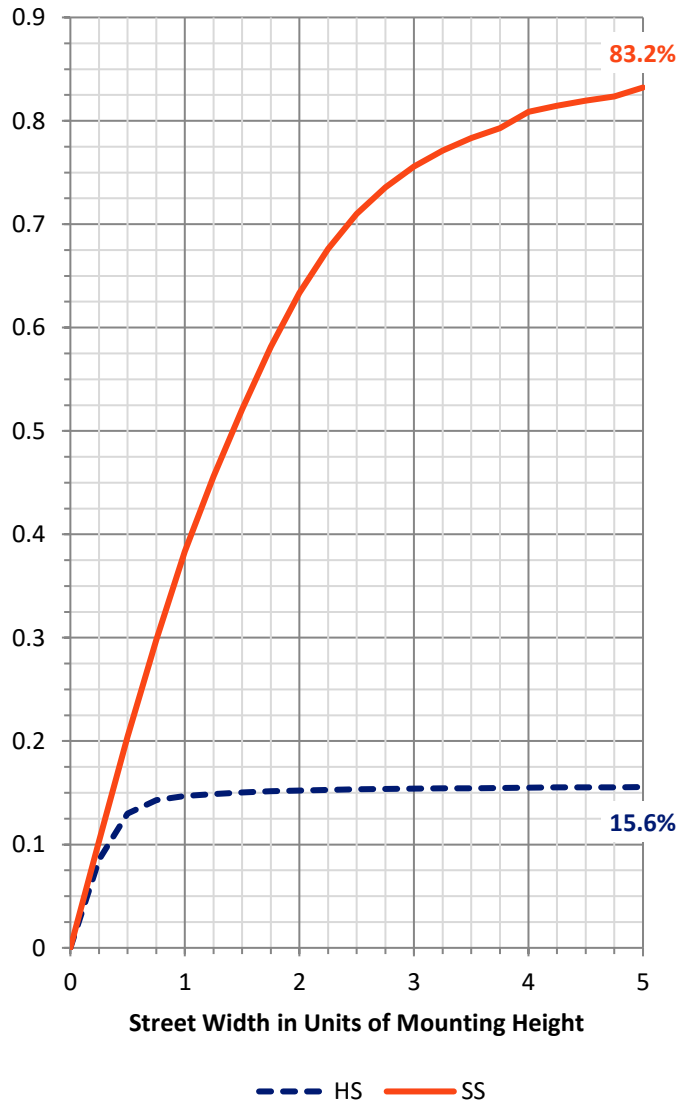
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14876.3	0.0	14876.3
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	79392.7	0.0	79392.7
	% Fixture	84.2	0.0	84.2
Total	Lumens	94269.0	0.0	94269.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	957.9	1.0
10°-20°	2848.7	3.0
20°-30°	5122.8	5.4
30°-40°	8106.8	8.6
40°-50°	12669.4	13.4
50°-60°	18193.0	19.3
60°-70°	24677.2	26.2
70°-80°	18263.8	19.4
80°-90°	3429.4	3.6
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°	94269.0	100.0
0°-180°	94269.0	100.0

Coefficient of Utilization

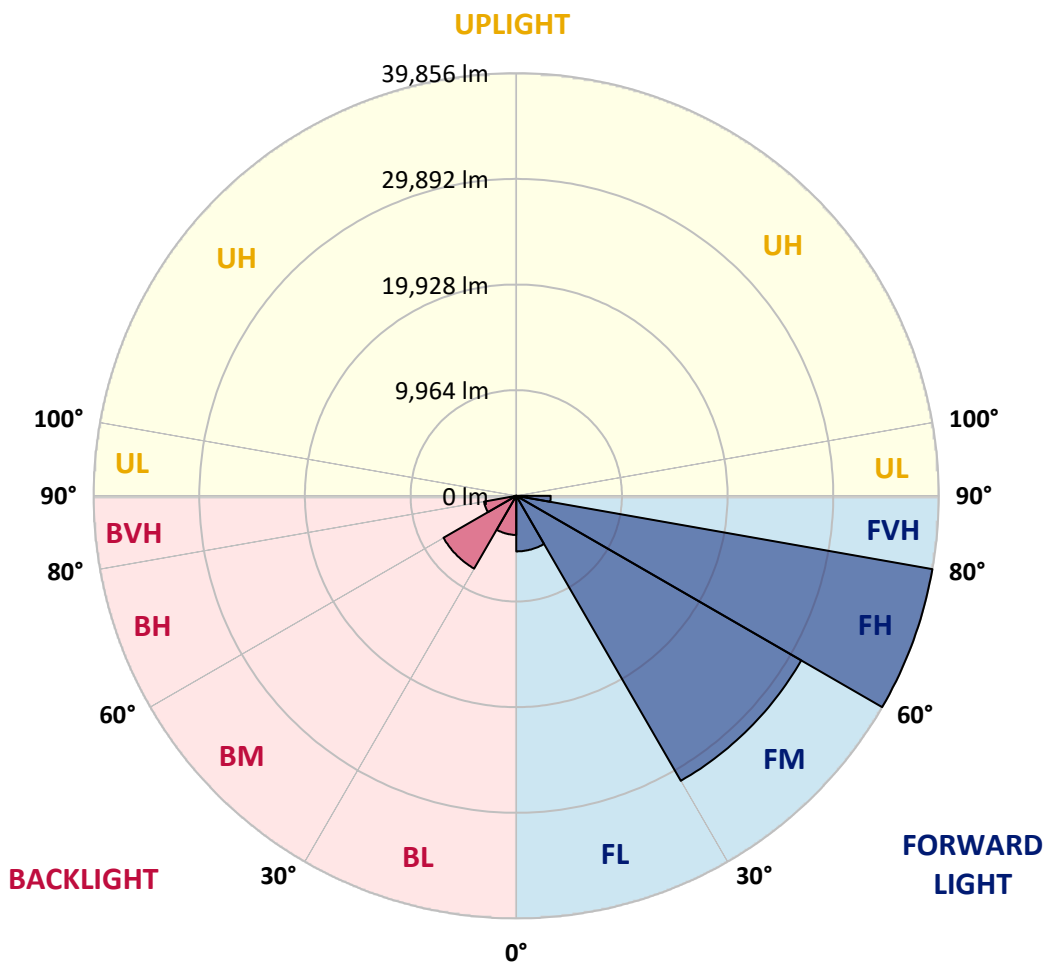


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5243.2	5.6			
FM (30°-60°)	31041.9	32.9			
FH (60°-80°)	39856.0	42.3			G5
FVH (80°-90°)	3251.5	3.4			G5
BL (0°-30°)	3686.3	3.9	B4/5000		
BM (30°-60°)	7927.3	8.4	B4/8500		
BH (60°-80°)	3084.9	3.3	B4/5000		G4/5000
BVH (80°-90°)	177.9	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	10100.5	10100.5	10100.5	10100.5	10100.5	10100.5	10100.5	10100.5	10100.5	10100.5	10100.5
2.5°	10305.0	10283.3	10265.9	10272.4	10259.3	10268.0	10248.4	10224.5	10167.9	10144.0	10133.1
5°	10396.4	10389.9	10372.5	10359.4	10335.5	10326.8	10305.0	10324.6	10294.1	10215.8	10170.1
7.5°	10450.8	10448.7	10429.1	10400.8	10413.8	10424.7	10446.5	10416.0	10376.9	10339.9	10246.3
10°	10474.8	10474.8	10450.8	10466.1	10533.5	10540.1	10551.0	10570.5	10533.5	10479.1	10385.6
12.5°	10535.7	10531.4	10540.1	10590.1	10659.8	10675.0	10729.4	10729.4	10733.8	10701.1	10592.3
15°	10688.1	10688.1	10707.7	10753.4	10873.1	10881.8	10962.3	11034.1	11042.8	10994.9	10912.2
17.5°	11040.6	11031.9	11021.1	11049.3	11177.7	11182.1	11321.4	11412.8	11436.7	11489.0	11475.9
20°	11711.0	11702.2	11700.1	11702.2	11693.5	11680.5	11817.6	11915.5	12037.4	12128.8	12174.5
22.5°	12670.7	12651.1	12651.1	12544.5	12461.8	12474.9	12496.6	12551.0	12712.1	12873.1	13045.1
25°	13704.5	13691.4	13702.3	13430.3	13319.3	13362.8	13334.5	13419.4	13630.5	13769.8	13952.6
27.5°	14548.9	14568.5	14507.6	14296.5	14224.6	14257.3	14192.0	14435.7	14668.6	14912.4	15188.8
30°	15600.1	15495.6	15345.5	15088.7	15062.5	15066.9	15062.5	15454.3	15937.4	16285.6	16668.7
32.5°	16973.4	16990.8	16653.5	16048.4	15826.4	15796.0	15883.0	16457.6	17110.5	17883.1	18388.0
35°	18361.9	18390.2	18144.3	17513.1	16879.8	16784.0	16655.6	17402.1	18344.5	19894.0	20655.8
37.5°	19835.3	19935.4	19643.8	19080.1	18329.2	18240.0	17632.8	18366.2	19759.1	22275.0	23273.9
40°	21807.1	21700.4	21347.8	20631.8	19933.2	19789.6	19084.4	19469.7	21578.5	25256.6	25981.3
42.5°	23260.9	23230.4	22932.2	22224.9	21522.0	21406.6	20838.6	21256.4	23870.2	28279.5	28603.8
45°	24414.3	24601.5	24595.0	24151.0	23754.9	23689.6	23354.4	23970.4	26640.7	31132.7	30973.9
47.5°	25439.4	25554.7	25369.7	25176.0	24991.1	25012.8	25260.9	26527.6	29472.2	33624.7	32921.7
50°	27117.4	26969.4	26140.2	25992.2	26253.3	26264.2	27019.4	28969.4	32590.9	35779.2	34571.4
52.5°	29354.6	29193.6	27489.5	27237.1	27855.1	27900.8	29156.6	31402.6	35807.5	37838.1	36212.3
55°	32684.5	32310.1	30484.2	29352.5	29635.4	29820.4	31341.7	33742.2	38325.6	39653.1	37455.0
57.5°	36773.8	37045.9	36110.0	33552.8	32375.4	32445.1	33842.3	35981.6	40547.6	41241.9	38181.9
60°	41096.1	41030.8	41422.5	40345.2	38090.5	37716.2	37004.5	38266.8	42269.1	42580.3	38930.6
62.5°	43463.9	43844.8	45150.6	45366.1	47401.0	47202.9	42351.8	41100.4	44258.3	43420.4	39135.2
65°	43450.9	43616.3	46047.3	48719.8	55077.0	55020.4	52765.7	45198.5	45740.4	43868.7	38726.0
67.5°	40643.4	40900.2	43742.5	48963.6	58624.4	58556.9	56998.7	50959.3	46206.1	43329.0	36817.4
70°	35524.6	35611.7	38384.3	45531.5	60049.9	60308.9	57144.5	53170.5	45048.3	41725.0	33337.4
72.5°	29306.8	29126.1	31837.9	38882.7	56419.8	56265.3	54728.7	50530.6	43098.3	38610.7	27189.2
75°	21578.5	22081.3	24514.4	31219.8	48306.3	48872.2	49553.4	46491.2	38277.7	31820.5	18801.5
77.5°	14248.6	14888.4	17347.7	23408.9	38242.9	39122.1	40887.1	39542.2	31139.3	22825.6	8953.5
80°	7362.6	7845.8	10059.1	15532.6	27415.5	28684.3	31920.6	29948.8	22076.9	10320.3	2004.4
82.5°	2785.7	2722.6	4507.2	8890.4	17578.4	18731.9	21084.5	17959.3	7856.6	1812.9	931.5
85°	1223.1	1294.9	1867.3	4054.5	10050.4	10200.6	11943.8	7001.3	1151.3	866.2	633.3
87.5°	528.9	607.2	783.5	1166.5	3390.8	3915.3	4844.6	2224.2	348.2	300.3	317.7
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°	10100.5	10100.5	10100.5	10100.5	10100.5	10100.5	10100.5	10100.5	10100.5	10100.5	10100.5
2.5°	10113.5	10100.5	10078.7	10024.3	9935.1	9924.2	9915.5	9906.8	9889.3	9898.1	9948.1
5°	10135.3	10111.3	10033.0	9954.6	9876.3	9806.6	9721.8	9689.1	9645.6	9617.3	9669.5
7.5°	10209.3	10159.2	10043.9	9937.2	9723.9	9621.7	9512.8	9384.4	9293.0	9234.3	9286.5
10°	10333.3	10270.2	10126.6	9906.8	9656.5	9375.7	9184.2	8970.9	8796.8	8748.9	8796.8
12.5°	10535.7	10442.1	10274.6	9976.4	9532.4	9164.6	8801.2	8520.4	8239.7	8159.1	8183.1
15°	10864.4	10790.4	10533.5	10122.2	9534.6	8973.1	8433.4	7980.7	7612.9	7484.5	7475.8
17.5°	11391.0	11312.7	11016.7	10411.7	9613.0	8822.9	8072.1	7382.2	6825.0	6542.1	6496.4
20°	12146.2	12037.4	11589.1	10838.2	9782.7	8757.6	7736.9	6809.8	5943.6	5412.6	5332.1
22.5°	12986.3	12871.0	12209.3	11166.9	9904.6	8629.2	7417.0	6176.5	5036.1	4387.5	4296.1
25°	14030.9	13778.5	12803.5	11478.1	9876.3	8359.4	6896.9	5316.8	4080.7	3519.2	3458.2
27.5°	15062.5	14742.6	13408.5	11641.3	9752.2	7930.6	6135.1	4311.4	3194.9	2796.6	2746.6
30°	16342.2	15724.1	13946.1	11717.5	9438.8	7288.6	5114.4	3277.6	2391.8	2117.6	2069.7
32.5°	17863.5	16927.7	14451.0	11632.6	8916.5	6309.2	3976.2	2400.5	1778.1	1606.1	1604.0
35°	19870.1	18403.2	15006.0	11354.0	8115.6	5253.7	2787.9	1641.0	1386.3	1327.6	1338.5
37.5°	22216.2	20401.1	15569.6	10897.0	7210.3	4019.7	1858.6	1264.5	1218.8	1220.9	1223.1
40°	24690.7	22608.0	16329.2	10255.0	6111.2	2909.8	1338.5	1136.1	1133.9	1155.6	1162.2
42.5°	27054.2	24751.7	17265.0	9399.7	4959.9	1923.9	1160.0	1083.8	1055.5	1064.2	1070.8
45°	29250.2	26590.7	18061.6	8566.1	3725.9	1373.3	1138.2	1022.9	979.4	975.0	979.4
47.5°	31019.6	28064.1	18546.9	7586.8	2655.2	1140.4	1092.5	966.3	905.4	892.3	885.8
50°	32366.7	29158.8	18723.2	6476.8	1795.5	1088.2	1031.6	901.0	827.0	829.2	829.2
52.5°	33681.2	30153.4	18518.6	5358.2	1321.0	1042.5	990.2	848.8	770.4	811.8	822.7
55°	34628.0	30571.2	17922.3	4148.1	1101.2	985.9	944.5	787.8	733.4	800.9	822.7
57.5°	35180.7	30899.9	16827.6	2994.7	1009.8	931.5	885.8	731.3	681.2	698.6	709.5
60°	35524.6	30440.6	15380.3	2047.9	961.9	888.0	827.0	694.3	626.8	585.4	578.9
62.5°	35335.3	29291.5	13473.8	1408.1	911.9	840.1	777.0	659.4	570.2	515.8	511.4
65°	33792.2	27165.2	10344.2	1140.4	881.4	818.3	746.5	626.8	531.0	478.8	472.3
67.5°	30930.3	23343.6	6041.6	1014.2	868.4	796.5	722.5	596.3	509.3	452.7	444.0
70°	26227.2	17558.8	2024.0	905.4	866.2	794.4	703.0	574.6	485.3	426.6	417.9
72.5°	18921.2	10594.5	985.9	796.5	809.6	761.7	687.7	557.1	470.1	396.1	380.9
75°	10753.4	3449.5	890.1	687.7	753.0	726.9	679.0	559.3	476.6	359.1	341.7
77.5°	3060.0	1007.7	859.7	585.4	711.7	750.8	635.5	504.9	487.5	333.0	311.2
80°	1033.8	896.7	829.2	454.9	574.6	620.3	550.6	444.0	491.9	302.5	280.7
82.5°	829.2	901.0	696.4	363.5	437.4	470.1	437.4	398.3	398.3	269.9	252.5
85°	663.8	835.7	441.8	289.5	326.5	361.3	309.0	298.2	278.6	226.3	219.8
87.5°	385.2	261.2	182.8	148.0	137.1	139.3	119.7	143.6	176.3	154.5	152.3
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)