

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: P510616

Luminaire Tested: **CST-CA10-760-750-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-760-750-U-T2-HSS
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 98735 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

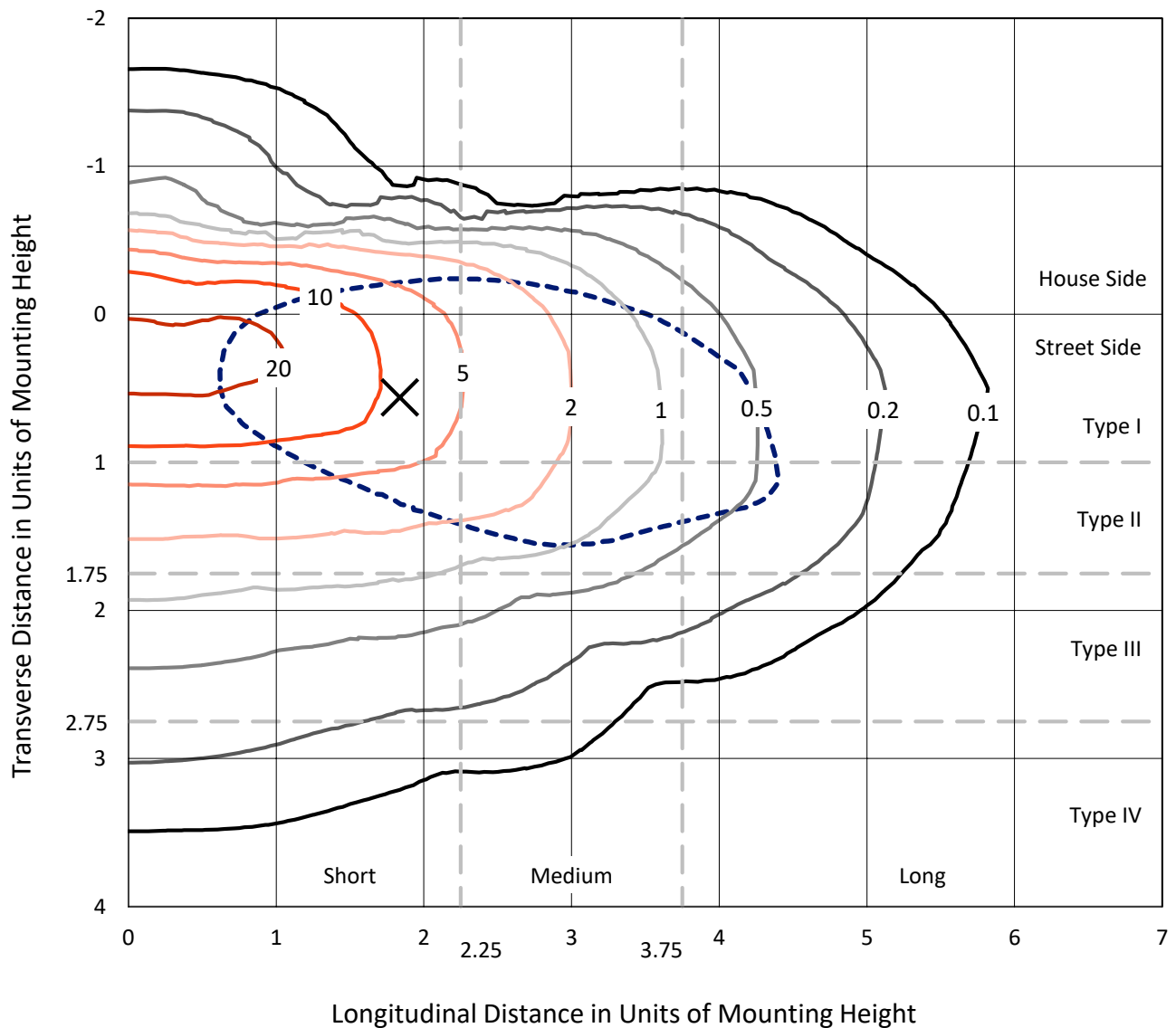
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

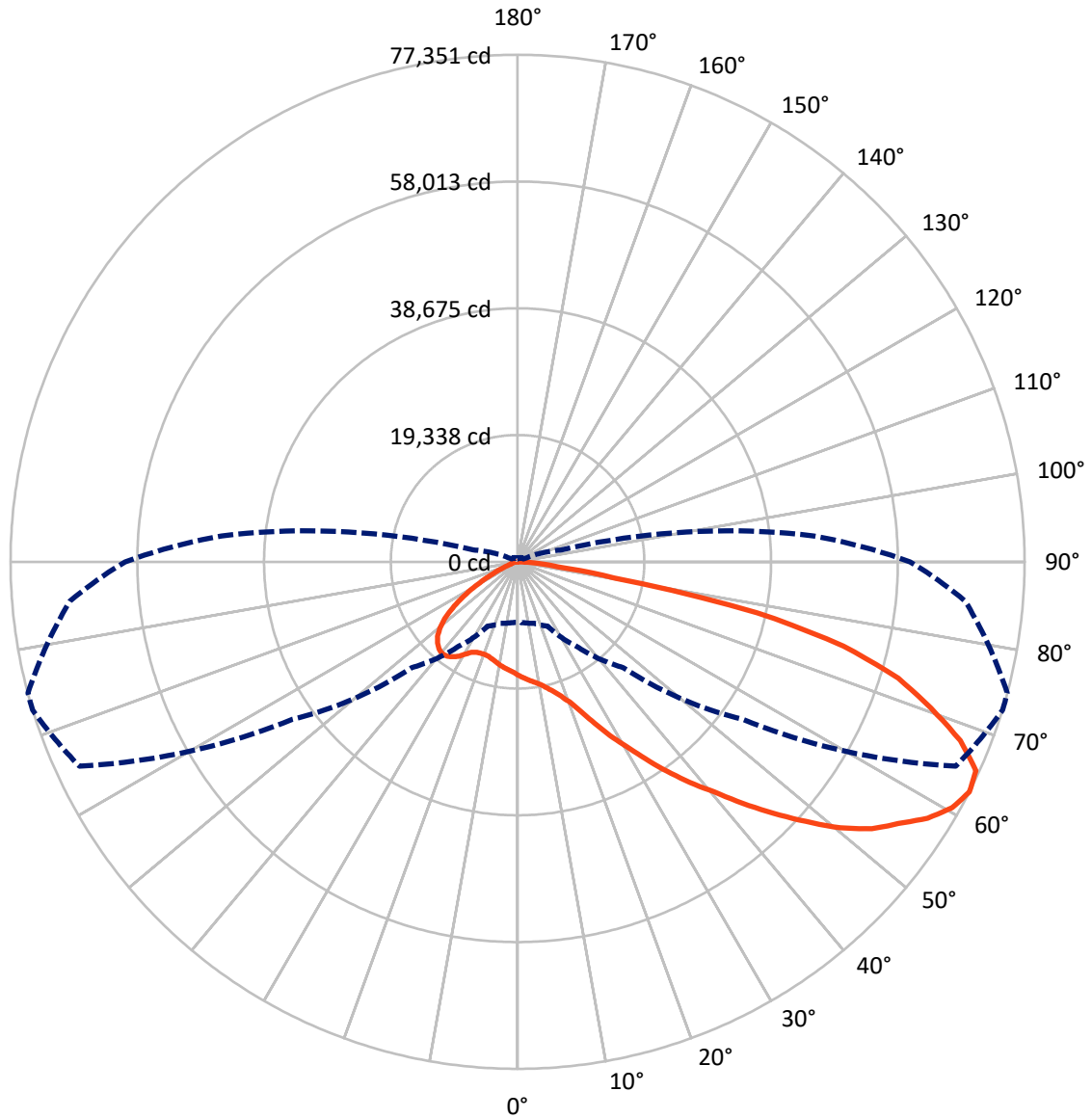
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 24 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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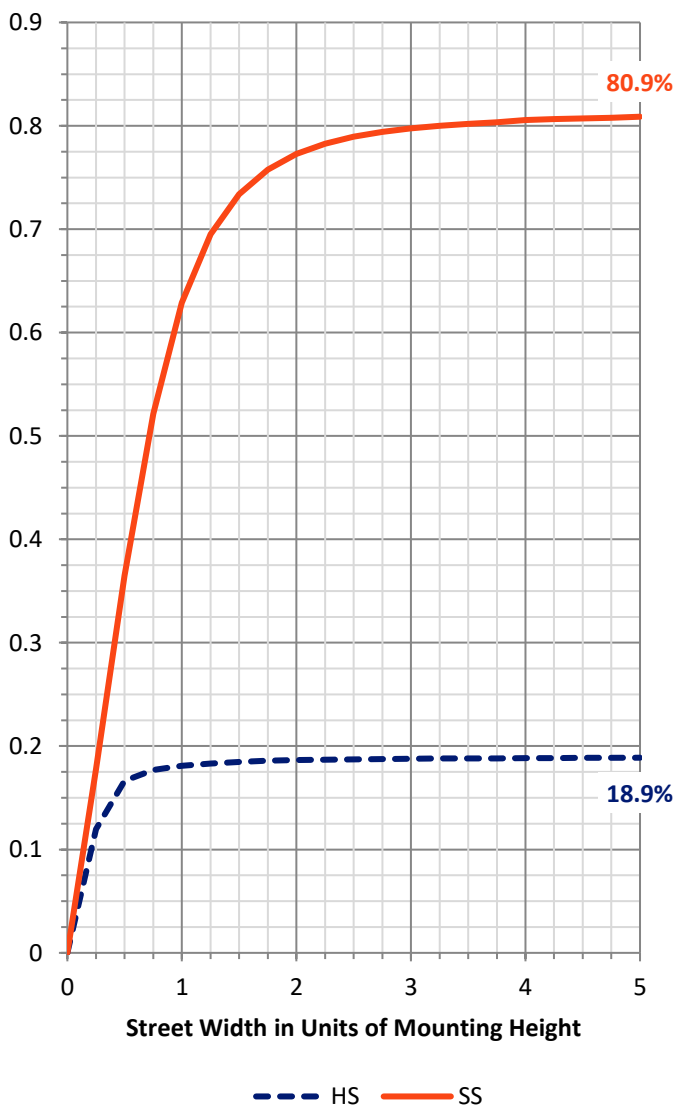
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18887.5	0.0	18887.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	79847.5	0.0	79847.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	98735.0	0.0	98735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1653.9	1.7
10°-20°	4974.5	5.0
20°-30°	8595.0	8.7
30°-40°	12924.7	13.1
40°-50°	17233.8	17.5
50°-60°	20296.3	20.6
60°-70°	20178.0	20.4
70°-80°	11584.7	11.7
80°-90°	1294.1	1.3
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°	98735.0	100.0
0°-180°	98735.0	100.0

Coefficient of Utilization

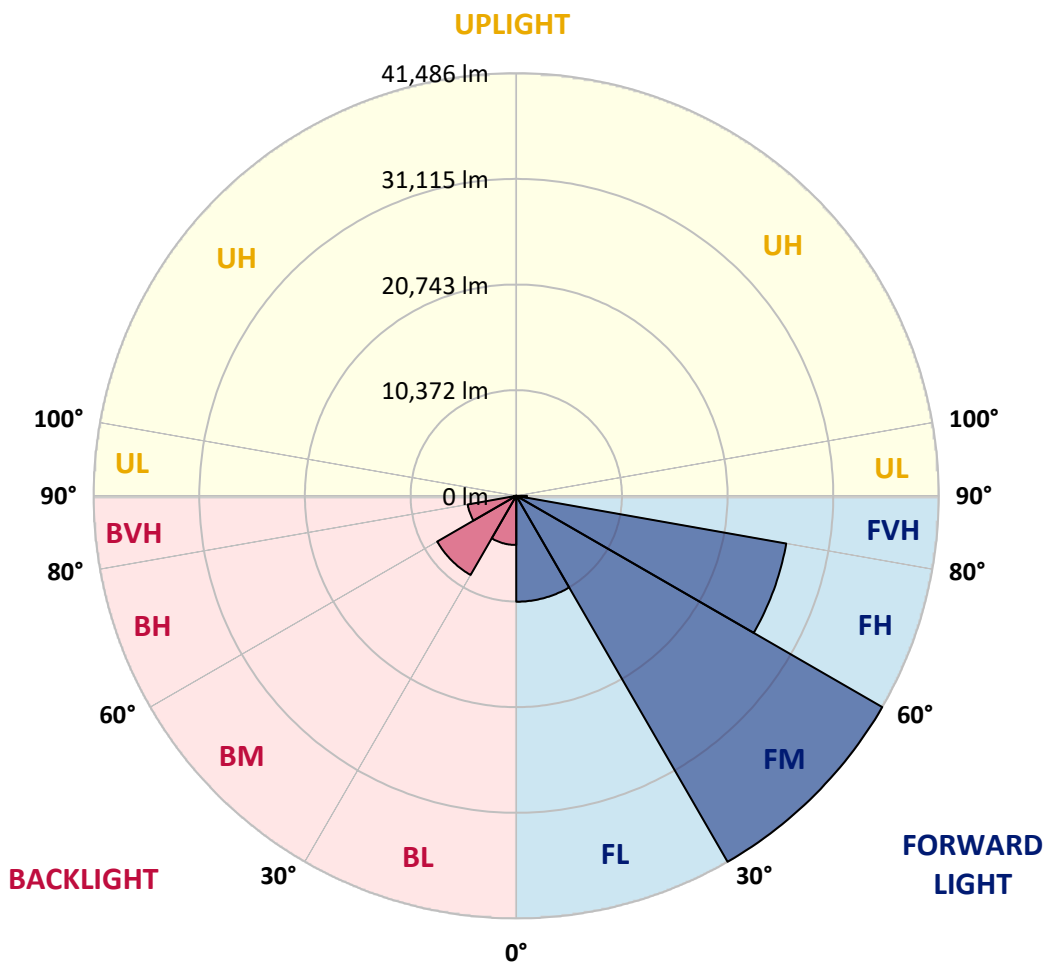


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10396.7	10.5			
FM (30°-60°)	41486.1	42.0			
FH (60°-80°)	26913.6	27.3			G5
FVH (80°-90°)	1051.1	1.1			G5
BL (0°-30°)	4826.7	4.9	B4/5000		
BM (30°-60°)	8968.7	9.1	B5		
BH (60°-80°)	4849.1	4.9	B4/5000		G4/5000
BVH (80°-90°)	243.1	0.2			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	17315.9	17315.9	17315.9	17315.9	17315.9	17315.9	17315.9	17315.9	17315.9	17315.9	17315.9
2.5°	18526.0	18572.5	18517.1	18492.7	18466.1	18293.3	18091.6	17885.5	17719.2	17692.6	17475.4
5°	19826.9	19851.3	19760.4	19656.3	19476.8	19190.9	18829.6	18472.8	18140.3	18051.7	17655.0
7.5°	20826.5	20779.9	20757.8	20669.1	20511.8	20197.0	19649.6	19064.5	18550.3	18426.2	17823.4
10°	21764.0	21744.0	21575.6	21464.8	21214.3	20924.0	20474.1	19731.6	19006.9	18807.4	17969.7
12.5°	22779.0	22734.7	22666.0	22426.6	22222.7	21732.9	21189.9	20514.0	19707.2	19441.3	18220.1
15°	23692.1	23572.5	23534.8	23284.3	23078.2	22703.7	22158.5	21373.9	20511.8	20283.5	18696.6
17.5°	24560.9	24505.5	24421.3	24250.6	24020.1	23732.0	23295.4	22455.4	21564.5	21232.1	19505.6
20°	25298.9	25230.2	25157.1	25203.6	25152.7	24968.7	24693.9	23978.0	22889.8	22568.5	20489.6
22.5°	25813.1	25810.9	26103.5	26274.1	26371.6	26365.0	26298.5	25892.9	24798.1	24472.3	21961.2
25°	26240.9	26274.1	26644.2	27293.6	27874.3	27927.5	28397.3	28204.5	27273.7	26934.6	24175.3
27.5°	26367.2	26433.7	27105.2	28126.9	29009.0	29855.6	30544.9	30897.3	30035.2	29629.6	26555.6
30°	26458.1	26484.7	27142.9	28366.3	30225.8	31566.6	32798.9	33395.1	32652.6	32355.6	29208.5
32.5°	25817.6	25826.4	26834.8	28687.7	31118.9	33443.8	34902.1	36025.8	35830.8	35438.5	32109.6
35°	24935.5	25099.5	26256.4	28377.4	31854.7	35168.1	37153.9	38829.4	39219.5	38938.0	35008.5
37.5°	23845.1	23973.6	25212.5	27916.4	32016.5	36353.8	38904.7	41679.5	42699.0	42652.5	38508.0
40°	22504.2	22661.6	24144.3	26923.5	31936.7	37215.9	40959.2	44835.5	46129.9	45983.6	41978.7
42.5°	20919.6	21150.1	22588.4	25646.9	31353.8	37743.4	42641.4	48049.2	50378.5	50283.2	45050.5
45°	19352.6	19476.8	20788.8	23869.4	30281.2	37914.1	44223.8	52477.3	54735.7	54629.3	48751.7
47.5°	17737.0	17845.6	19215.2	21996.7	28419.5	37570.5	45476.0	56280.5	59174.9	59068.6	52428.5
50°	13978.1	14388.2	17196.2	20350.0	26298.5	36597.6	46657.3	61018.9	63820.3	63368.2	55648.8
52.5°	11959.1	12107.6	13563.7	18690.0	24181.9	34937.6	47446.3	65409.4	67641.2	66989.6	58942.2
55°	11179.0	11278.7	11992.3	15629.3	22193.9	32426.5	48375.0	69810.9	70506.8	70340.6	61628.4
57.5°	10587.2	10698.0	11207.8	13053.9	20099.5	28907.1	48084.6	72907.1	73778.1	73246.2	64480.7
60°	9749.5	9884.7	10560.6	11719.7	17719.2	25334.4	45529.2	74174.8	76156.1	75557.7	66650.5
62.5°	9222.0	9310.6	9698.5	10822.1	15746.7	22821.1	41892.3	73767.0	77350.7	77328.6	68532.1
65°	8506.1	8636.9	9051.3	9962.2	13991.4	20873.0	38461.5	71752.4	76836.5	76856.5	68920.0
67.5°	7757.0	7810.2	8244.6	8976.0	11923.6	19088.9	34022.3	68306.0	72831.7	73288.3	66236.0
70°	6821.7	6795.1	7265.0	7799.1	9745.0	16207.7	27384.5	62175.8	66914.2	67102.6	60808.3
72.5°	5367.9	5392.2	5523.0	5893.1	7398.0	12754.7	19871.3	52530.5	60728.6	61063.2	53871.4
75°	3608.1	3648.0	4257.5	4618.7	5321.3	9166.6	12495.4	35458.4	51338.1	52282.3	44090.9
77.5°	2752.6	2777.0	2954.3	3348.8	3849.7	6533.6	6773.0	19321.6	37375.5	39616.2	34492.1
80°	1950.3	1959.2	1784.1	1586.9	2050.1	4432.6	4000.4	8229.1	14893.5	17599.6	20259.1
82.5°	873.2	859.9	1012.8	842.2	1181.3	1715.4	1888.3	3993.8	6185.7	6648.9	7238.4
85°	405.6	454.3	520.8	436.6	702.6	662.7	735.8	1702.1	2898.9	3200.3	3182.6
87.5°	99.7	108.6	137.4	175.1	254.9	226.1	221.6	500.9	647.2	644.9	990.7
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°	17315.9	17315.9	17315.9	17315.9	17315.9	17315.9	17315.9	17315.9	17315.9	17315.9	17315.9
2.5°	17327.0	17211.7	16939.1	16675.4	16424.9	16258.7	16072.5	15877.5	15760.0	15704.6	15824.3
5°	17413.4	17194.0	16673.1	16150.1	15706.8	15327.9	15061.9	14835.8	14713.9	14725.0	14731.7
7.5°	17486.5	17178.5	16449.3	15711.3	15019.8	14549.9	14202.0	13958.2	13818.6	13712.2	13792.0
10°	17550.8	17114.2	16187.8	15203.7	14452.4	13756.5	13284.4	12989.7	12732.6	12588.5	12701.6
12.5°	17619.5	17089.8	15895.2	14749.4	13776.5	12998.5	12351.4	12058.8	11806.2	11697.6	11766.3
15°	17918.7	17182.9	15622.6	14215.3	13109.4	12103.2	11405.0	11046.0	10846.5	10715.8	10744.6
17.5°	18432.9	17428.9	15447.5	13656.8	12364.7	11300.9	10396.6	9977.7	9647.5	9554.4	9530.0
20°	19164.3	17896.5	15447.5	13184.7	11520.3	10409.9	9368.3	8661.3	8147.1	7954.3	8102.8
22.5°	20392.1	18692.2	15600.5	12757.0	10793.3	9485.7	8244.6	7165.3	6471.6	6190.1	6354.1
25°	22109.7	19922.2	15848.7	12382.4	10130.7	8421.9	6819.5	5578.4	4813.8	4479.1	4474.7
27.5°	24352.6	21803.9	16349.6	12076.6	9337.2	7045.6	5332.4	4137.8	3419.7	3218.1	3246.9
30°	26839.3	23842.8	17295.9	11633.3	8373.1	5505.3	3882.9	3040.7	2535.4	2269.5	2273.9
32.5°	29237.3	25955.0	18419.6	11345.2	7120.9	4151.1	2768.1	2169.7	1855.0	1697.7	1722.1
35°	31808.2	27776.8	19255.1	10862.0	5651.5	3000.9	1957.0	1626.8	1496.0	1414.0	1418.4
37.5°	34585.2	29780.3	19942.2	10214.9	4273.0	2061.1	1445.0	1394.0	1338.6	1234.5	1225.6
40°	37486.3	32100.7	20352.2	9168.8	2969.8	1427.3	1227.8	1285.4	1254.4	1119.2	1108.1
42.5°	39946.4	33891.5	20454.1	7783.6	1921.5	1156.9	1112.6	1201.2	1207.9	1070.5	1052.7
45°	42309.0	35487.2	20254.7	5959.6	1332.0	1088.2	1041.7	1163.6	1172.4	1048.3	1019.5
47.5°	44953.0	37670.3	19893.4	3976.0	1101.5	1028.4	1017.3	1101.5	1132.5	1030.6	995.1
50°	48164.4	39445.5	18822.9	2442.4	1039.4	990.7	990.7	1041.7	1083.8	995.1	977.4
52.5°	51457.8	40992.5	17238.3	1675.5	1001.8	950.8	979.6	1001.8	1017.3	937.5	953.0
55°	53818.2	42364.4	14875.7	1347.5	979.6	924.2	992.9	948.6	926.4	857.7	842.2
57.5°	56437.8	43995.6	12460.0	1194.6	950.8	939.7	948.6	864.4	802.3	731.4	715.9
60°	58266.3	44873.2	9503.4	1123.7	917.5	924.2	875.4	762.4	649.4	598.4	587.3
62.5°	59862.0	45374.1	6965.8	1032.8	886.5	884.3	793.4	651.6	534.1	478.7	469.9
65°	59620.4	44591.7	4514.6	959.7	862.1	833.3	711.4	558.5	445.5	403.4	398.9
67.5°	56963.1	41129.9	2843.5	884.3	820.0	769.1	638.3	498.7	410.0	361.3	356.8
70°	51384.7	36349.4	1739.8	786.8	729.2	680.4	565.2	467.6	387.9	330.2	319.1
72.5°	43674.2	31132.2	1230.0	693.7	636.1	578.5	478.7	445.5	370.1	297.0	288.1
75°	35881.7	22931.9	1030.6	605.0	543.0	465.4	407.8	414.4	348.0	270.4	263.7
77.5°	25267.9	14297.3	959.7	494.2	427.7	370.1	352.4	379.0	319.1	248.2	241.6
80°	14747.2	8029.6	793.4	390.1	321.4	285.9	294.8	321.4	279.3	223.8	215.0
82.5°	5953.0	3178.2	558.5	303.6	234.9	228.3	241.6	261.5	230.5	188.4	184.0
85°	2125.4	992.9	316.9	199.5	150.7	157.4	155.1	186.2	166.2	137.4	135.2
87.5°	558.5	197.2	141.8	79.8	64.3	64.3	59.8	86.4	79.8	62.1	68.7
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)