

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: P510606

Luminaire Tested: **CST-CA10-760-740-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510606
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-CA10-760-740-U-T2-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: 96957 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

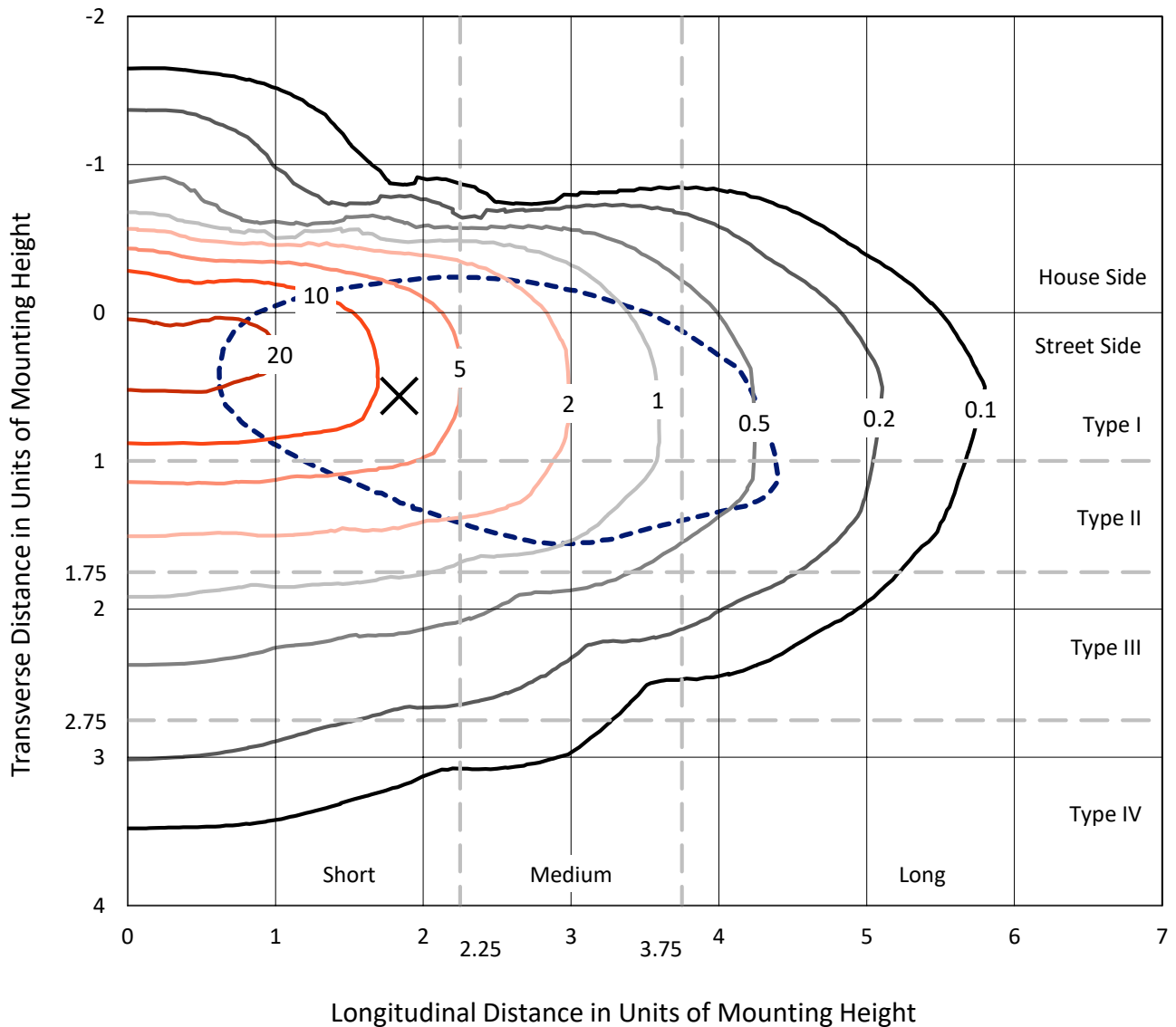
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

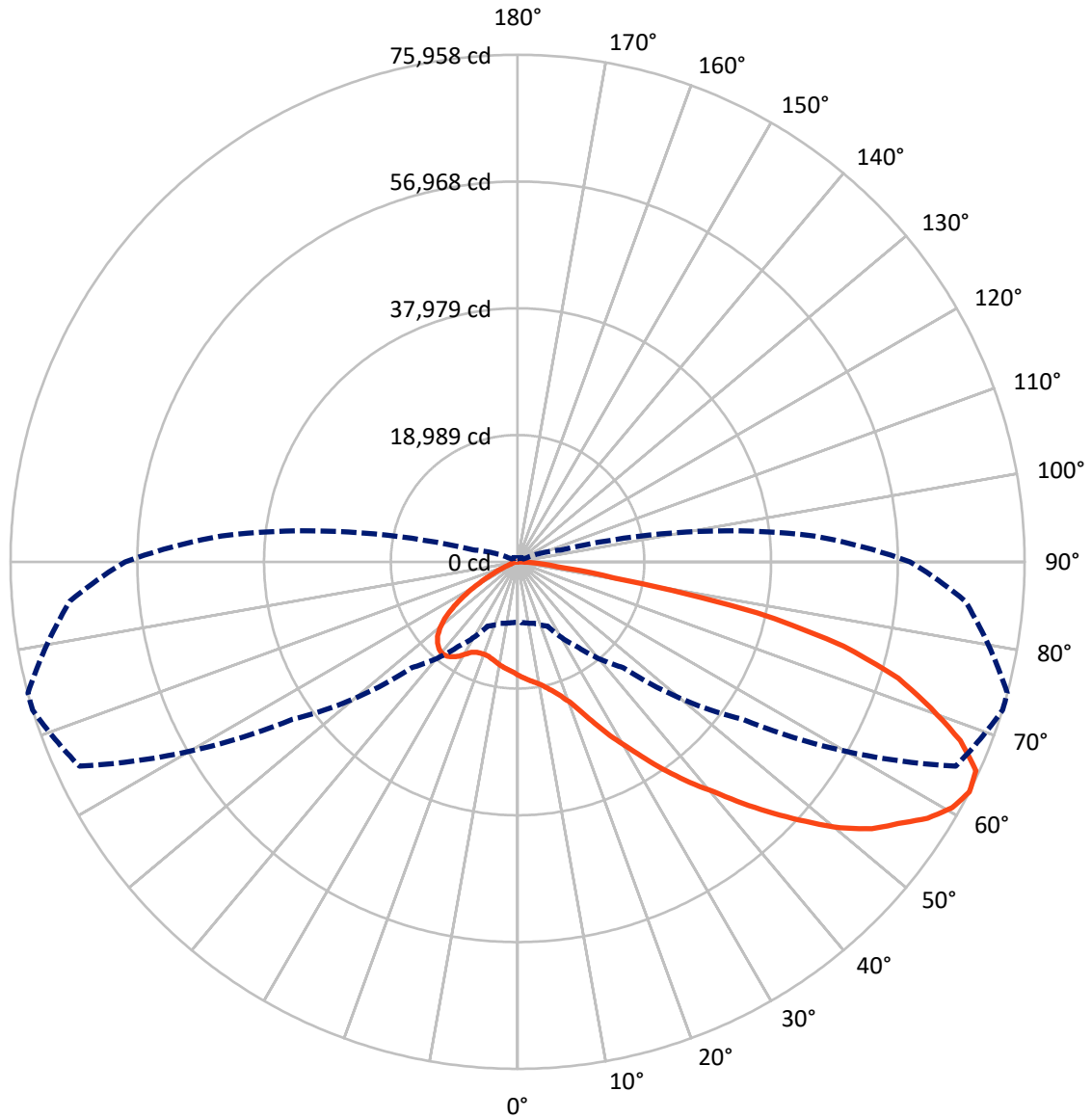
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 23.6 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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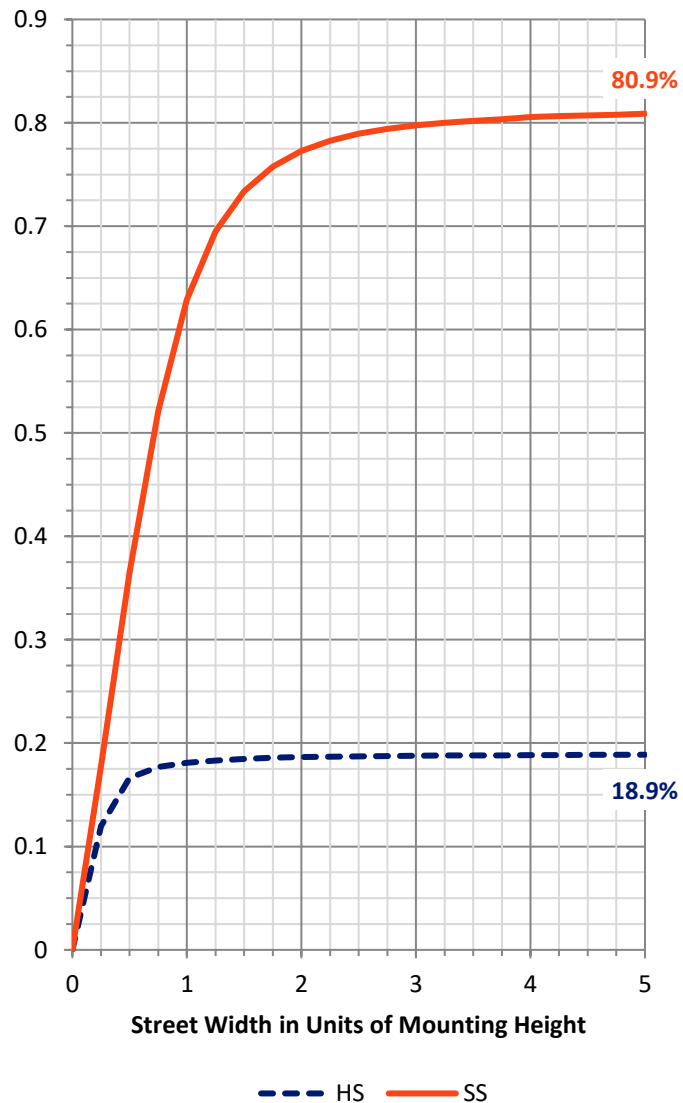
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18547.4	0.0	18547.4
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	78409.6	0.0	78409.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	96957.0	0.0	96957.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1624.1	1.7
10°-20°	4885.0	5.0
20°-30°	8440.2	8.7
30°-40°	12691.9	13.1
40°-50°	16923.5	17.5
50°-60°	19930.8	20.6
60°-70°	19814.7	20.4
70°-80°	11376.1	11.7
80°-90°	1270.8	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°	96957.0	100.0
0°-180°	96957.0	100.0

Coefficient of Utilization

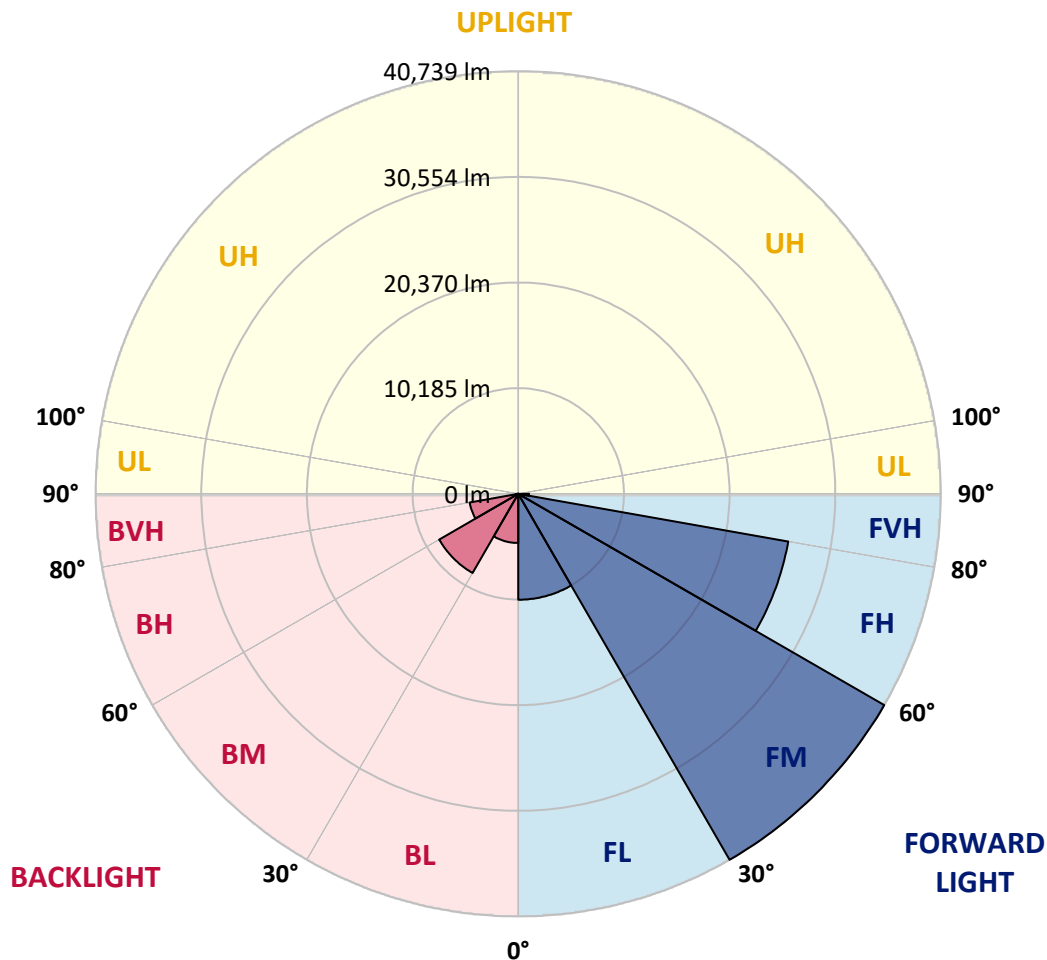


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10209.5	10.5			
FM (30°-60°)	40739.0	42.0			
FH (60°-80°)	26429.0	27.3			G5
FVH (80°-90°)	1032.1	1.1			G5
BL (0°-30°)	4739.7	4.9	B4/5000		
BM (30°-60°)	8807.2	9.1	B5		
BH (60°-80°)	4761.8	4.9	B4/5000		G4/5000
BVH (80°-90°)	238.7	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°	17004.1	17004.1	17004.1	17004.1	17004.1	17004.1	17004.1	17004.1	17004.1	17004.1	17004.1
2.5°	18192.4	18238.1	18183.6	18159.7	18133.6	17963.8	17765.8	17563.4	17400.2	17374.0	17160.7
5°	19469.9	19493.8	19404.6	19302.3	19126.0	18845.3	18490.5	18140.1	17813.7	17726.6	17337.0
7.5°	20451.4	20405.7	20384.0	20296.9	20142.4	19833.3	19295.8	18721.2	18216.3	18094.4	17502.4
10°	21372.0	21352.5	21187.1	21078.2	20832.3	20547.2	20105.4	19376.3	18664.6	18468.8	17646.1
12.5°	22368.8	22325.3	22257.8	22022.8	21822.6	21341.6	20808.4	20144.6	19352.4	19091.2	17892.0
15°	23265.5	23148.0	23111.0	22865.0	22662.6	22294.8	21759.4	20989.0	20142.4	19918.2	18359.9
17.5°	24118.6	24064.2	23981.5	23813.9	23587.6	23304.7	22875.9	22051.1	21176.2	20849.7	19154.3
20°	24843.4	24775.9	24704.1	24749.8	24699.7	24519.1	24249.2	23546.2	22477.6	22162.1	20120.6
22.5°	25348.3	25346.1	25633.4	25801.0	25896.7	25890.2	25824.9	25426.6	24351.5	24031.6	21565.7
25°	25768.3	25801.0	26164.4	26802.1	27372.3	27424.6	27885.9	27696.6	26782.5	26449.5	23739.9
27.5°	25892.4	25957.7	26617.1	27620.4	28486.6	29318.0	29994.9	30340.9	29494.3	29096.0	26077.4
30°	25981.6	26007.7	26654.1	27855.5	29681.5	30998.2	32208.2	32793.7	32064.6	31773.0	28682.5
32.5°	25352.6	25361.3	26351.6	28171.1	30558.5	32841.6	34273.6	35377.0	35185.5	34800.3	31531.4
35°	24486.4	24647.5	25783.6	27866.4	31281.1	34534.8	36484.8	38130.2	38513.2	38236.8	34378.1
37.5°	23415.7	23541.9	24758.5	27413.7	31440.0	35699.1	38204.2	40929.0	41930.1	41884.4	37814.6
40°	22099.0	22253.5	23709.5	26438.7	31361.6	36545.8	40221.7	44028.1	45299.2	45155.5	41222.8
42.5°	20542.8	20769.2	22181.7	25185.1	30789.2	37063.7	41873.5	47183.9	49471.3	49377.7	44239.3
45°	19004.1	19126.0	20414.4	23439.6	29735.9	37231.3	43427.5	51532.3	53750.0	53645.6	47873.8
47.5°	17417.6	17524.2	18869.2	21600.6	27907.7	36894.0	44657.1	55267.0	58109.3	58004.9	51484.4
50°	13726.4	14129.1	16886.5	19983.5	25824.9	35938.5	45817.1	59920.1	62671.0	62227.0	54646.7
52.5°	11743.7	11889.6	13319.4	18353.4	23746.5	34308.4	46591.9	64231.5	66423.1	65783.2	57880.8
55°	10977.7	11075.6	11776.4	15347.8	21794.3	31842.6	47503.8	68553.8	69237.1	69073.9	60518.6
57.5°	10396.6	10505.4	11005.9	12818.9	19737.6	28386.5	47218.7	71594.2	72449.5	71927.2	63319.6
60°	9573.9	9706.7	10370.4	11508.7	17400.2	24878.2	44709.4	72839.1	74784.7	74197.1	65450.2
62.5°	9055.9	9143.0	9523.8	10627.3	15463.2	22410.2	41137.9	72438.6	75957.8	75936.0	67298.0
65°	8352.9	8481.3	8888.3	9782.8	13739.5	20497.1	37768.9	70460.3	75452.9	75472.5	67678.9
67.5°	7617.3	7669.6	8096.1	8814.3	11708.9	18745.2	33409.6	67076.0	71520.2	71968.5	65043.3
70°	6698.9	6672.8	7134.2	7658.7	9569.5	15915.9	26891.3	61056.1	65709.2	65894.2	59713.3
72.5°	5271.2	5295.1	5423.5	5787.0	7264.8	12525.1	19513.4	51584.5	59635.0	59963.6	52901.2
75°	3543.1	3582.3	4180.8	4535.6	5225.5	9001.5	12270.4	34819.9	50413.6	51340.8	43296.9
77.5°	2703.1	2727.0	2901.1	3288.5	3780.4	6416.0	6651.0	18973.7	36702.5	38902.8	33871.0
80°	1915.2	1923.9	1752.0	1558.3	2013.2	4352.8	3928.4	8080.9	14625.3	17282.6	19894.3
82.5°	857.5	844.4	994.6	827.0	1160.0	1684.5	1854.3	3921.8	6074.3	6529.1	7108.1
85°	398.3	446.2	511.4	428.7	689.9	650.7	722.6	1671.5	2846.7	3142.7	3125.3
87.5°	97.9	106.6	134.9	171.9	250.3	222.0	217.6	491.9	635.5	633.3	972.8
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°	17004.1	17004.1	17004.1	17004.1	17004.1	17004.1	17004.1	17004.1	17004.1	17004.1	17004.1
2.5°	17014.9	16901.8	16634.1	16375.1	16129.1	15965.9	15783.1	15591.6	15476.2	15421.8	15539.3
5°	17099.8	16884.3	16372.9	15859.3	15424.0	15051.8	14790.7	14568.7	14449.0	14459.9	14466.4
7.5°	17171.6	16869.1	16153.1	15428.4	14749.3	14287.9	13946.2	13706.8	13569.7	13465.3	13543.6
10°	17234.7	16806.0	15896.3	14930.0	14192.2	13508.8	13045.2	12755.8	12503.3	12361.8	12472.8
12.5°	17302.2	16782.1	15609.0	14483.8	13528.4	12764.5	12129.0	11841.7	11593.6	11486.9	11554.4
15°	17596.0	16873.5	15341.3	13959.3	12873.3	11885.2	11199.6	10847.1	10651.2	10522.8	10551.1
17.5°	18100.9	17115.0	15169.4	13410.8	12142.0	11097.4	10209.4	9798.1	9473.8	9382.4	9358.4
20°	18819.2	17574.3	15169.4	12947.3	11312.8	10222.5	9199.6	8505.3	8000.4	7811.0	7956.8
22.5°	20024.9	18355.6	15319.5	12527.2	10599.0	9314.9	8096.1	7036.2	6355.0	6078.6	6239.7
25°	21711.6	19563.5	15563.3	12159.4	9948.2	8270.2	6696.7	5477.9	4727.1	4398.5	4394.1
27.5°	23914.1	21411.2	16055.1	11859.1	9169.1	6918.7	5236.4	4063.3	3358.2	3160.1	3188.4
30°	26356.0	23413.5	16984.5	11423.8	8222.4	5406.1	3813.0	2986.0	2489.8	2228.6	2233.0
32.5°	28710.8	25487.6	18087.9	11140.9	6992.7	4076.4	2718.3	2130.7	1821.6	1667.1	1691.0
35°	31235.4	27276.6	18908.4	10666.4	5549.8	2946.8	1921.7	1597.5	1469.1	1388.5	1392.9
37.5°	33962.4	29244.0	19583.1	10030.9	4196.1	2024.0	1419.0	1368.9	1314.5	1212.2	1203.5
40°	36811.3	31522.7	19985.7	9003.7	2916.3	1401.6	1205.7	1262.3	1231.8	1099.1	1088.2
42.5°	39227.1	33281.2	20085.8	7643.4	1886.9	1136.1	1092.5	1179.6	1186.1	1051.2	1033.8
45°	41547.1	34848.2	19889.9	5852.3	1308.0	1068.6	1022.9	1142.6	1151.3	1029.4	1001.1
47.5°	44143.5	36991.9	19535.2	3904.4	1081.7	1009.8	999.0	1081.7	1112.1	1012.0	977.2
50°	47297.1	38735.2	18484.0	2398.4	1020.7	972.8	972.8	1022.9	1064.2	977.2	959.8
52.5°	50531.2	40254.3	16927.9	1645.3	983.7	933.7	962.0	983.7	999.0	920.6	935.8
55°	52849.0	41601.5	14607.9	1323.2	962.0	907.6	975.0	931.5	909.7	842.3	827.0
57.5°	55421.5	43203.3	12235.6	1173.1	933.7	922.8	931.5	848.8	787.8	718.2	703.0
60°	57217.0	44065.1	9332.3	1103.4	901.0	907.6	859.7	748.7	637.7	587.6	576.7
62.5°	58784.0	44557.0	6840.4	1014.2	870.6	868.4	779.1	639.9	524.5	470.1	461.4
65°	58546.8	43788.7	4433.3	942.4	846.6	818.3	698.6	548.4	437.5	396.1	391.7
67.5°	55937.3	40389.2	2792.3	868.4	805.3	755.2	626.8	489.7	402.6	354.7	350.4
70°	50459.4	35694.8	1708.5	772.6	716.0	668.1	555.0	459.2	380.9	324.3	313.4
72.5°	42887.7	30571.6	1207.9	681.2	624.6	568.0	470.1	437.5	363.5	291.6	282.9
75°	35235.6	22519.0	1012.0	594.2	533.2	457.0	400.5	407.0	341.7	265.5	259.0
77.5°	24812.9	14039.8	942.4	485.3	420.0	363.5	346.0	372.2	313.4	243.8	237.2
80°	14481.6	7885.0	779.1	383.0	315.6	280.8	289.5	315.6	274.2	219.8	211.1
82.5°	5845.8	3120.9	548.4	298.2	230.7	224.2	237.2	256.8	226.3	185.0	180.6
85°	2087.1	975.0	311.2	195.9	148.0	154.5	152.3	182.8	163.2	134.9	132.8
87.5°	548.4	193.7	139.3	78.3	63.1	63.1	58.8	84.9	78.3	60.9	67.5
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)