

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: P510568

Luminaire Tested: **CST-CA10-630-760-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-630-760-U-T3-HSS
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 85774 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

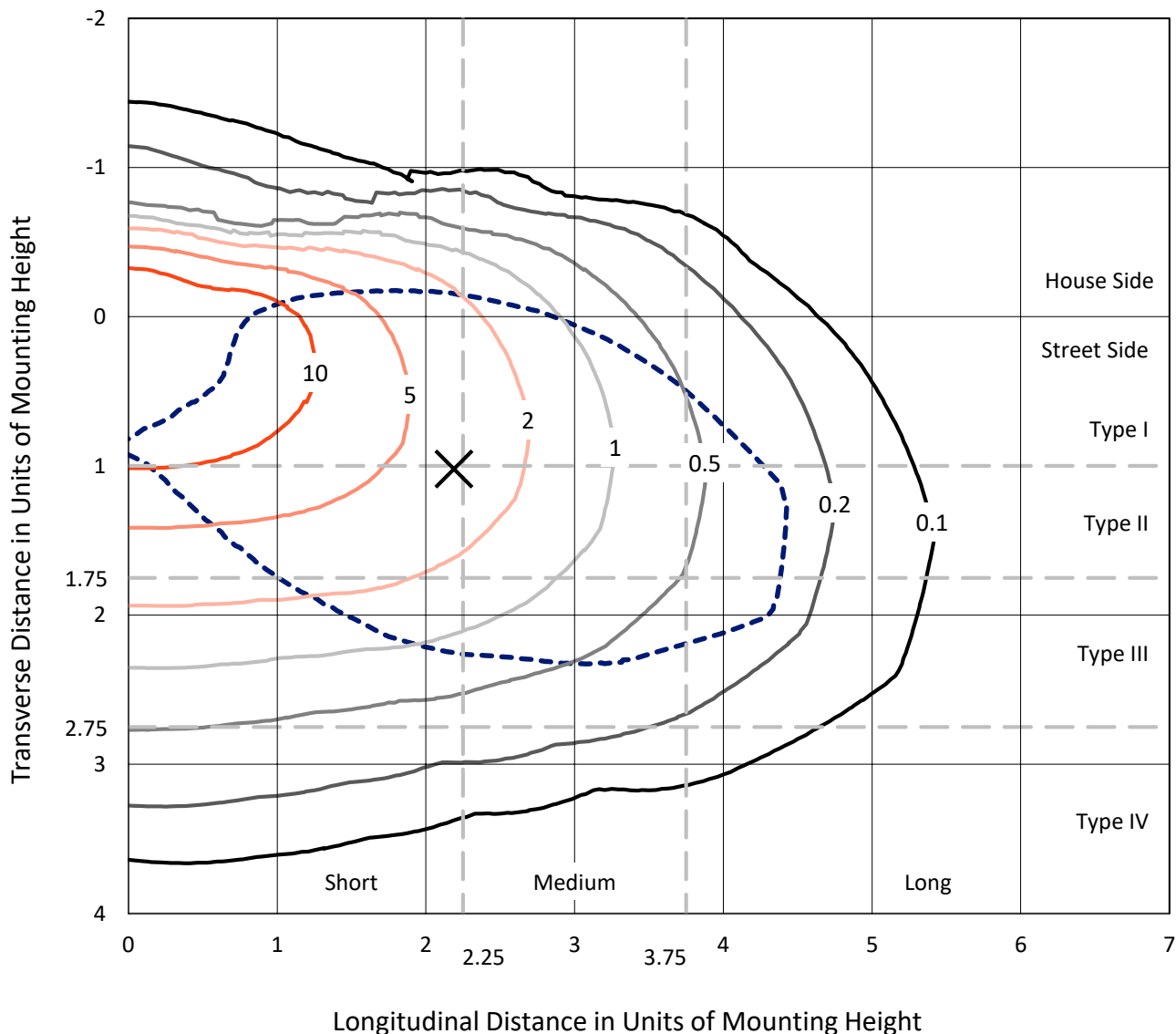
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

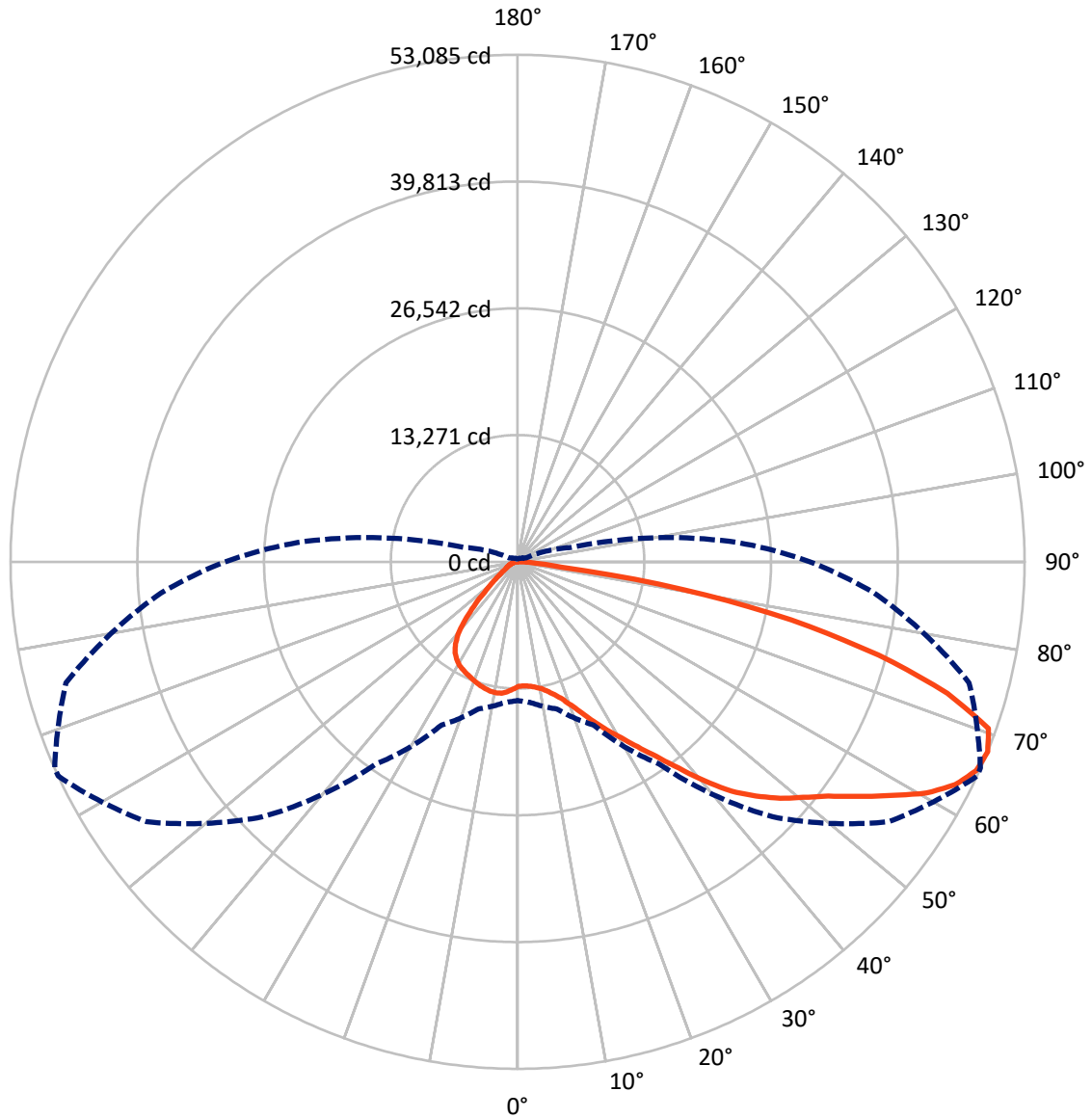
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17 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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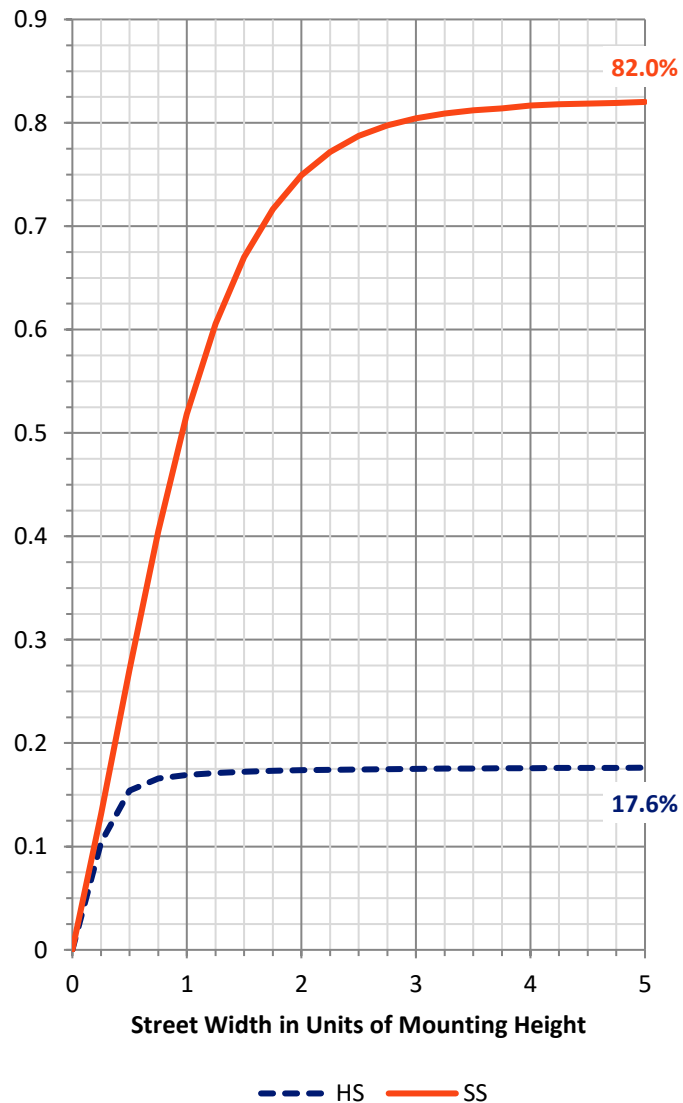
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15329.9	0.0	15329.9
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	70444.1	0.0	70444.1
	% Fixture	82.1	0.0	82.1
Total	Lumens	85774.0	0.0	85774.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1289.5	1.5
10°-20°	3981.1	4.6
20°-30°	6906.4	8.1
30°-40°	10418.3	12.1
40°-50°	14445.6	16.8
50°-60°	17831.2	20.8
60°-70°	18998.9	22.1
70°-80°	10871.5	12.7
80°-90°	1031.5	1.2
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°	85774.0	100.0
0°-180°	85774.0	100.0

Coefficient of Utilization

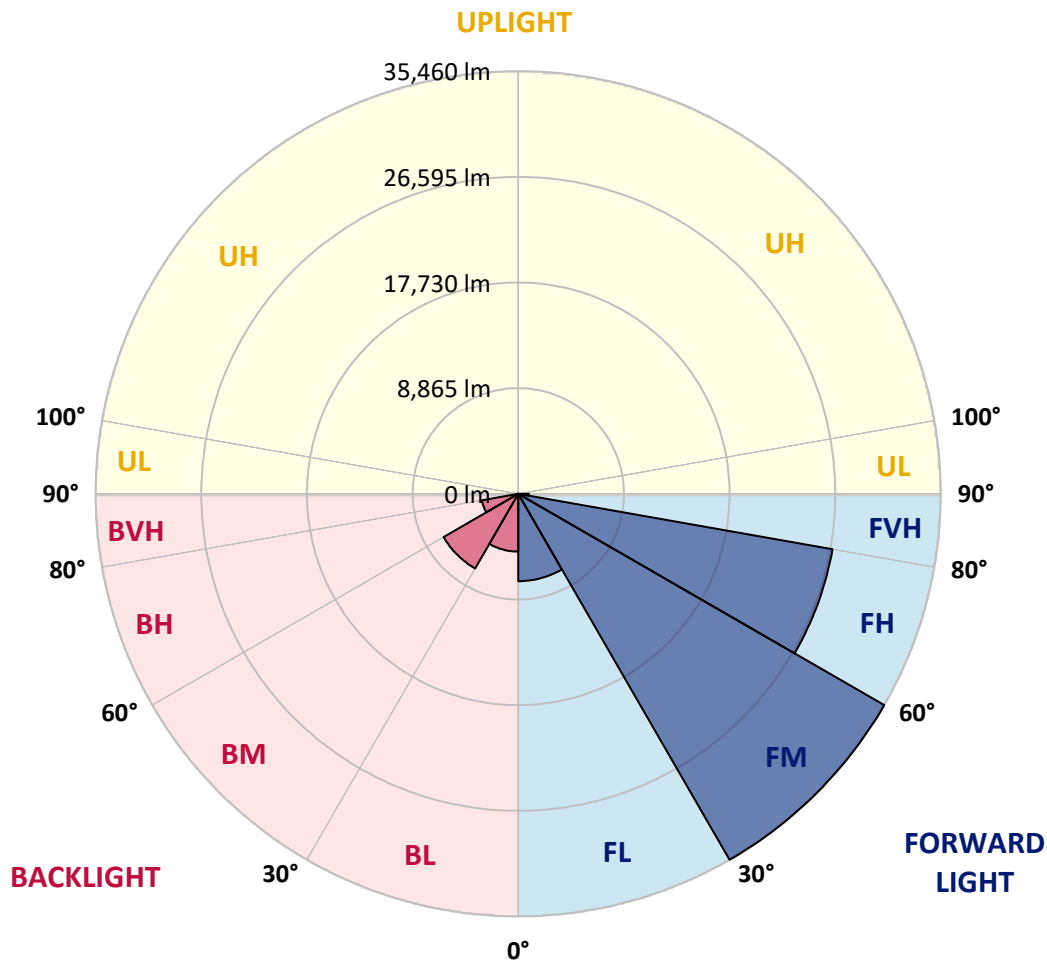


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7326.2	8.5			
FM (30°-60°)	35460.2	41.3			
FH (60°-80°)	26776.3	31.2			G5
FVH (80°-90°)	881.4	1.0			G5
BL (0°-30°)	4850.8	5.7	B4/5000		
BM (30°-60°)	7234.9	8.4	B4/8500		
BH (60°-80°)	3094.1	3.6	B4/5000		G4/5000
BVH (80°-90°)	150.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	13033.9	13033.9	13033.9	13033.9	13033.9	13033.9	13033.9	13033.9	13033.9	13033.9	13033.9
2.5°	12908.0	12891.1	12876.1	12902.4	12917.4	12941.9	12977.6	13002.0	13009.5	13032.0	13060.2
5°	13114.7	13112.8	13092.2	13080.9	13049.0	13037.7	13045.2	13075.3	13077.1	13105.3	13193.6
7.5°	13520.6	13516.8	13466.1	13443.5	13375.9	13300.7	13244.4	13250.0	13248.1	13276.3	13394.7
10°	14133.1	14103.0	14031.6	13962.1	13830.6	13689.7	13586.3	13492.4	13492.4	13533.7	13665.2
12.5°	14824.5	14865.8	14768.1	14662.9	14443.1	14189.4	14009.1	13903.8	13892.6	13913.2	14007.2
15°	15683.2	15683.2	15617.4	15467.1	15273.6	14920.3	14548.3	14414.9	14396.1	14439.3	14433.7
17.5°	16650.8	16679.0	16555.0	16479.8	16183.0	15792.1	15326.2	15095.1	15095.1	15066.9	14937.2
20°	17885.2	17731.2	17744.3	17620.3	17402.4	16834.9	16361.4	16025.1	16021.4	15965.0	15600.5
22.5°	19226.8	19142.2	19068.9	18960.0	18659.3	18152.0	17494.4	17161.9	17154.3	17015.3	16474.2
25°	20549.5	20613.4	20532.6	20333.4	20113.6	19561.2	18836.0	18509.0	18507.2	18276.0	17509.5
27.5°	21909.8	21979.4	21953.1	21772.7	21479.6	21047.4	20361.6	19935.1	19908.8	19758.5	18794.6
30°	23413.0	23351.0	23431.7	23354.7	23208.2	22503.6	21883.5	21387.5	21451.4	21406.3	20254.5
32.5°	24506.5	24545.9	24810.9	24818.4	24664.3	24142.0	23384.8	23080.4	23181.8	23121.7	22048.9
35°	25494.8	25558.7	25900.6	26236.9	26349.7	25778.5	25008.1	24989.4	25120.9	25487.3	24521.5
37.5°	26344.0	26389.1	26868.2	27306.0	27670.5	27279.7	26719.8	27386.8	27580.4	28330.0	27073.0
40°	26853.2	26911.5	27531.5	28147.8	28797.9	28658.8	28606.2	30184.5	30366.8	31026.3	28935.0
42.5°	26565.7	26680.4	27713.8	28841.1	29797.5	30075.5	30795.1	32824.4	33032.9	33089.3	30765.1
45°	26052.8	26195.6	27351.1	29175.5	30735.0	31627.5	32997.2	34975.7	35090.3	34930.6	32281.4
47.5°	25500.4	25652.6	26943.4	29076.0	31488.5	33433.1	34964.4	37001.1	37081.9	36591.5	33808.9
50°	24872.9	25013.8	26402.3	28843.0	32055.9	35137.3	36986.1	38752.3	39054.8	38085.3	34996.4
52.5°	24110.0	24260.3	25733.4	28478.5	32553.8	36401.8	38769.2	40730.8	40751.4	39952.9	36334.1
55°	23121.7	23382.9	24893.5	27847.2	32815.0	37487.8	40323.0	43348.1	43481.5	42709.2	37454.0
57.5°	22022.6	22249.9	23882.7	27005.4	32580.1	38312.6	42822.0	46155.1	46138.2	44588.1	38432.9
60°	20570.2	20731.8	22565.6	25904.4	31822.9	39310.3	45424.3	49163.3	49133.2	46429.5	39062.3
62.5°	18706.3	18867.9	20592.7	24177.7	30710.6	39979.2	47190.4	51416.1	51329.6	47769.1	39255.8
65°	16545.6	16834.9	18332.4	21936.1	28743.4	39539.5	48043.4	52742.6	52603.5	48791.2	38793.6
67.5°	14520.1	14766.3	15951.8	18851.0	25840.5	37756.5	47442.2	53084.5	53043.2	48939.7	37487.8
70°	11652.9	11743.1	12829.1	15311.1	21500.2	33938.5	45364.1	52295.4	52314.2	47571.8	34864.8
72.5°	7975.9	8195.8	8678.6	10638.3	15645.6	26990.4	39099.9	47064.5	47068.3	42656.6	30376.2
75°	4289.5	4629.6	5193.3	6164.7	8746.3	17319.7	31400.2	39052.9	39126.2	35565.7	24143.8
77.5°	2126.9	2249.0	2576.0	3297.5	4009.6	8171.3	20194.4	29314.6	29489.3	27300.4	16466.7
80°	973.3	993.9	1018.4	1012.7	1535.1	3584.9	8669.2	17605.3	17657.9	16237.4	7517.5
82.5°	761.0	757.2	768.5	699.0	702.7	1382.9	3000.6	4610.8	4917.1	3870.5	2384.3
85°	460.3	458.5	494.2	383.3	471.6	747.8	1514.4	1839.4	1862.0	1514.4	1234.4
87.5°	174.7	169.1	155.9	137.2	157.8	210.4	524.2	676.4	661.4	469.7	426.5
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°	13033.9	13033.9	13033.9	13033.9	13033.9	13033.9	13033.9	13033.9	13033.9	13033.9	13033.9
2.5°	13084.6	13144.8	13255.6	13340.2	13368.4	13458.6	13545.0	13560.0	13622.0	13646.4	13727.2
5°	13248.1	13349.6	13522.4	13637.0	13687.8	13838.1	13935.8	13984.6	13967.7	13977.1	14067.3
7.5°	13486.7	13582.6	13721.6	13860.6	13885.1	13911.4	13902.0	13894.5	13828.7	13772.3	13856.9
10°	13704.7	13794.9	13881.3	13902.0	13778.0	13708.4	13584.4	13488.6	13360.8	13302.6	13370.2
12.5°	14010.9	14029.7	13945.2	13832.5	13565.6	13317.6	13116.6	12941.9	12784.0	12675.0	12765.2
15°	14334.1	14260.8	14014.7	13685.9	13272.5	12917.4	12588.6	12297.4	12036.2	11972.3	11996.8
17.5°	14762.5	14563.3	14067.3	13514.9	12872.3	12319.9	11897.2	11528.9	11187.0	11044.2	11031.0
20°	15284.8	14963.5	14174.4	13298.8	12398.9	11664.2	11010.3	10459.8	9988.2	9601.2	9610.6
22.5°	15965.0	15499.0	14336.0	13073.4	11874.6	10895.7	9945.0	9009.3	8233.3	7898.9	7816.2
25°	16863.1	16167.9	14565.2	12868.6	11288.4	9918.7	8575.3	7254.4	6433.3	6108.3	6072.6
27.5°	17981.1	17066.0	14914.7	12641.2	10660.9	8759.4	6827.9	5533.4	4779.9	4438.0	4323.3
30°	19251.2	18172.7	15273.6	12404.5	9901.8	7269.5	5206.4	3938.2	3165.9	2859.7	2820.2
32.5°	20895.2	19574.4	15807.2	12032.5	8793.2	5713.7	3631.9	2457.6	1933.4	1801.9	1764.3
35°	23230.7	21470.2	16466.7	11562.7	7369.0	3990.8	2250.9	1439.2	1159.3	1093.5	1080.4
37.5°	25408.3	23330.3	17131.8	10783.0	5595.4	2491.4	1287.0	922.5	860.5	862.4	866.2
40°	27135.1	24602.3	17669.2	9757.1	3680.8	1414.8	894.4	766.6	768.5	762.8	759.1
42.5°	28672.0	25616.9	17911.5	8240.8	2132.5	947.0	776.0	706.5	689.6	695.2	691.4
45°	29944.0	26652.2	17441.8	6536.7	1257.0	849.3	732.8	655.7	636.9	667.0	670.8
47.5°	31281.8	27634.8	16722.2	4924.6	1020.2	807.9	693.3	618.2	608.8	646.3	650.1
50°	32407.2	28346.9	15495.3	3710.8	973.3	762.8	657.6	580.6	578.7	612.5	612.5
52.5°	33348.6	28777.2	14039.1	2865.3	941.3	723.4	621.9	544.9	544.9	556.2	558.0
55°	34011.8	28690.8	13171.1	2254.7	907.5	685.8	584.3	511.1	488.5	481.0	484.8
57.5°	34132.1	28461.6	12164.0	1758.6	868.1	650.1	550.5	471.6	430.3	424.6	422.8
60°	34055.0	27958.0	11014.1	1469.3	823.0	616.3	516.7	430.3	388.9	375.8	379.5
62.5°	33733.7	27065.5	9685.7	1288.9	777.9	590.0	479.1	402.1	364.5	347.6	347.6
65°	32764.2	25787.9	7712.9	1129.2	721.5	561.8	449.1	390.8	349.5	330.7	326.9
67.5°	30633.6	23136.8	5796.4	990.2	667.0	531.7	445.3	388.9	342.0	315.7	311.9
70°	27775.8	19875.0	3957.0	869.9	606.9	503.5	443.4	390.8	334.4	300.6	296.9
72.5°	23187.5	15668.1	2279.1	757.2	546.8	477.2	435.9	392.7	321.3	280.0	274.3
75°	17423.0	10989.7	1337.8	650.1	488.5	437.8	415.2	381.4	300.6	255.5	249.9
77.5°	10478.6	5131.3	1007.1	539.2	419.0	385.2	370.1	349.5	274.3	236.7	231.1
80°	3844.2	1948.4	791.0	432.1	332.6	334.4	319.4	306.3	249.9	218.0	214.2
82.5°	1676.0	1191.2	584.3	328.8	261.2	298.7	263.0	251.8	214.2	195.4	187.9
85°	1016.5	710.2	375.8	223.6	180.4	202.9	184.1	193.5	165.3	154.1	148.4
87.5°	336.3	212.3	167.2	109.0	90.2	84.6	82.7	99.6	93.9	86.4	86.4
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)