

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: P510600

Luminaire Tested: **CST-CA10-760-730-U-T4-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510600  
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-CA10-760-730-U-T4-HSS  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 92563 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

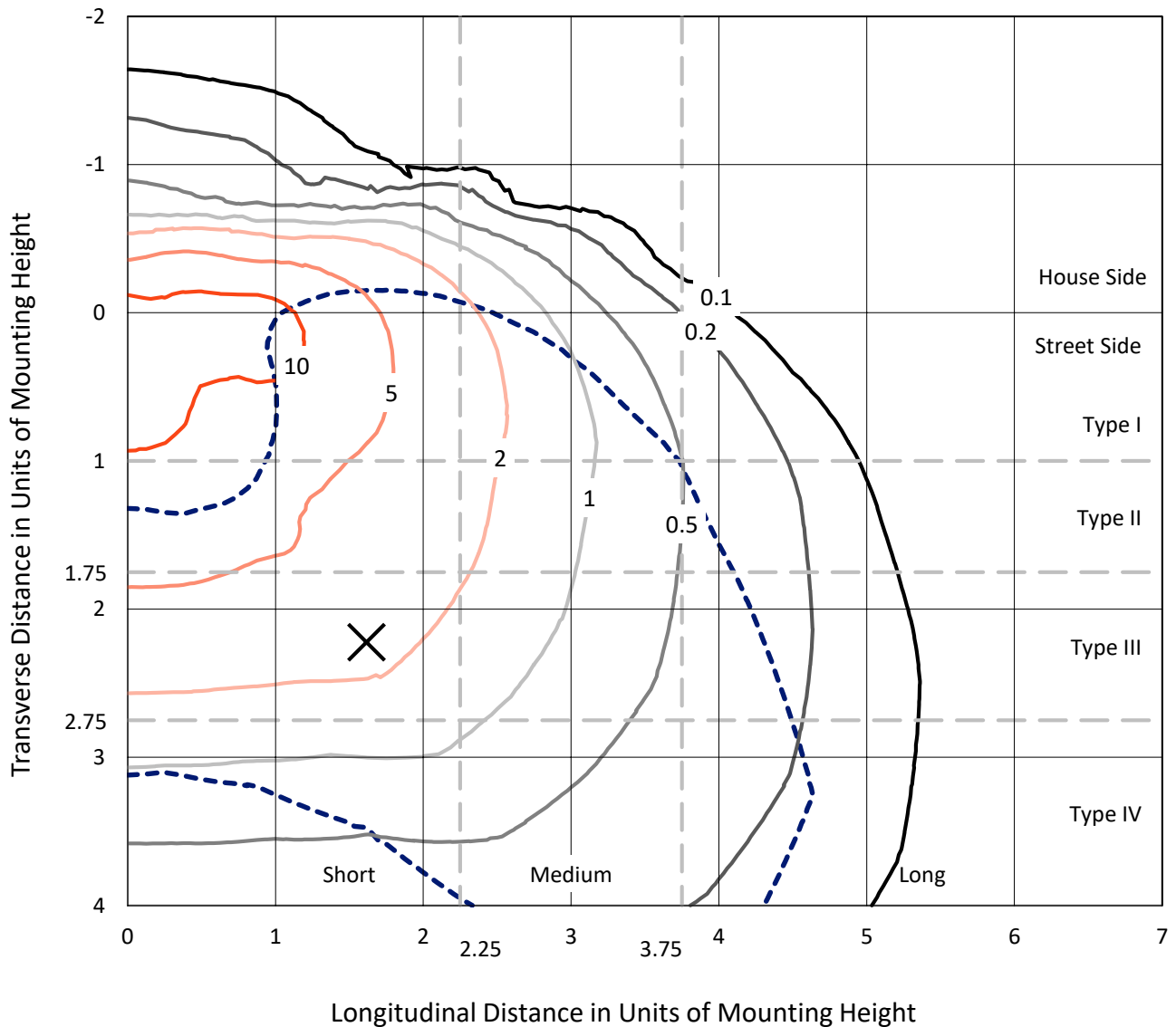
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

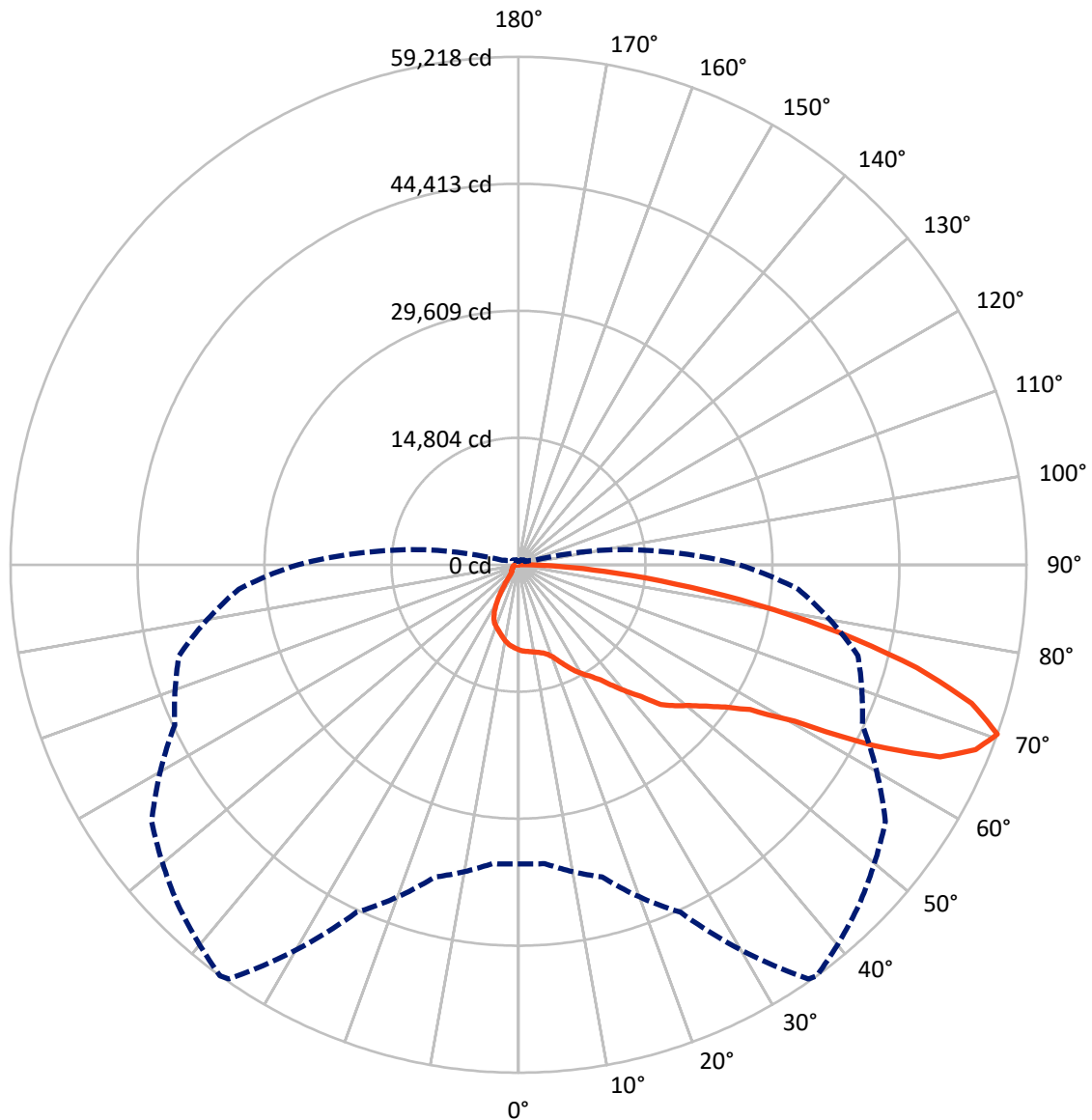
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.6 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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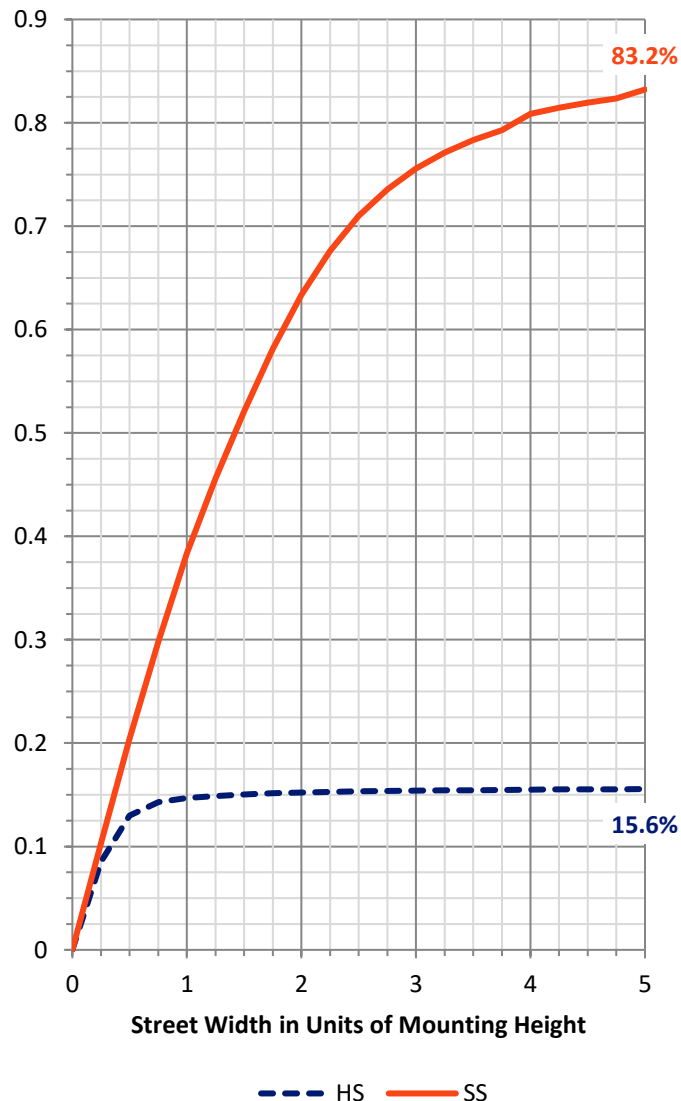
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14607.1	0.0	14607.1
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	77955.9	0.0	77955.9
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	92563.0	0.0	92563.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	940.6	1.0
10°-20°	2797.2	3.0
20°-30°	5030.1	5.4
30°-40°	7960.1	8.6
40°-50°	12440.1	13.4
50°-60°	17863.8	19.3
60°-70°	24230.6	26.2
70°-80°	17933.2	19.4
80°-90°	3367.3	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°	92563.0	100.0
0°-180°	92563.0	100.0

**Coefficient of Utilization**

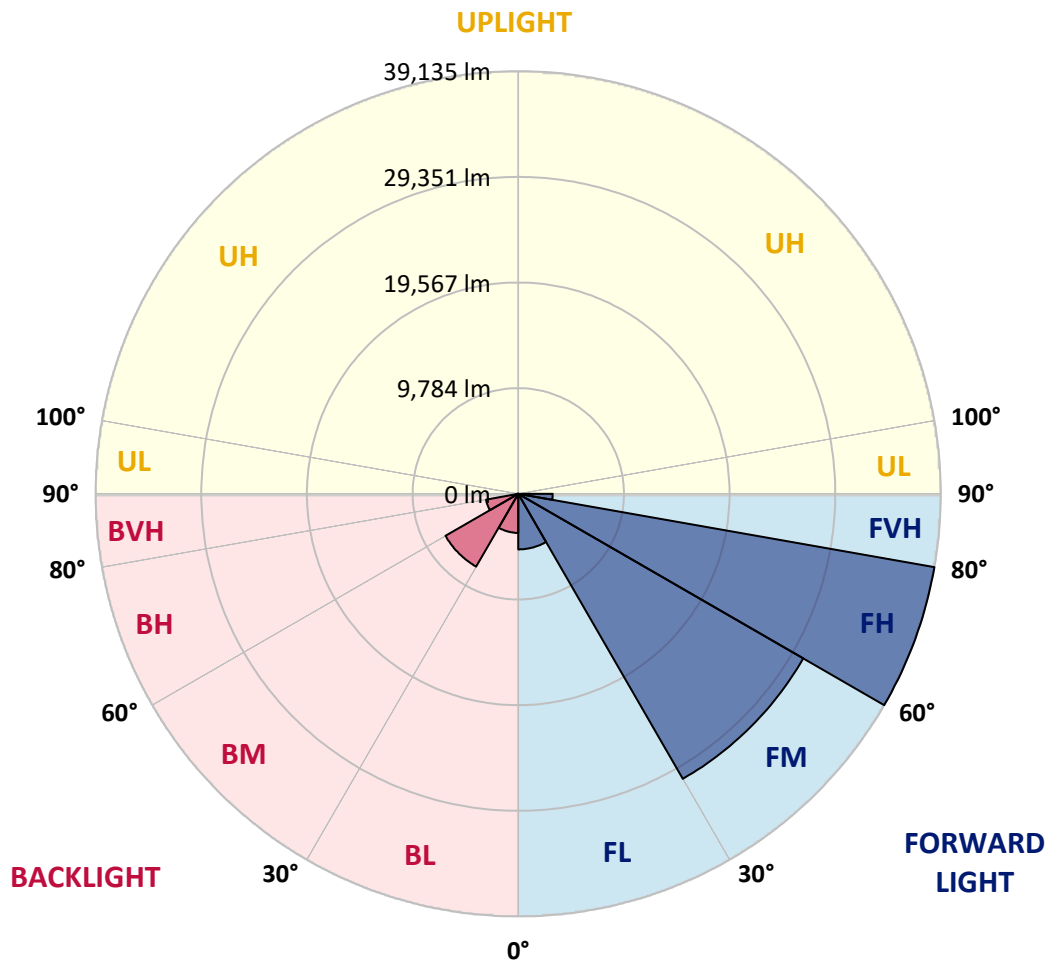


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5148.3	5.6			
FM (30°-60°)	30480.2	32.9			
FH (60°-80°)	39134.7	42.3			G5
FVH (80°-90°)	3192.7	3.4			G5
BL (0°-30°)	3619.6	3.9	B4/5000		
BM (30°-60°)	7783.8	8.4	B4/8500		
BH (60°-80°)	3029.1	3.3	B4/5000		G4/5000
BVH (80°-90°)	174.6	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°	9917.7	9917.7	9917.7	9917.7	9917.7	9917.7	9917.7	9917.7	9917.7	9917.7	9917.7
2.5°	10118.5	10097.2	10080.1	10086.5	10073.7	10082.2	10063.0	10039.5	9983.9	9960.4	9949.7
5°	10208.3	10201.9	10184.8	10172.0	10148.5	10139.9	10118.5	10137.8	10107.9	10030.9	9986.0
7.5°	10261.7	10259.6	10240.3	10212.6	10225.4	10236.1	10257.4	10227.5	10189.1	10152.7	10060.8
10°	10285.2	10285.2	10261.7	10276.7	10342.9	10349.3	10360.0	10379.2	10342.9	10289.5	10197.6
12.5°	10345.1	10340.8	10349.3	10398.5	10466.9	10481.8	10535.2	10535.2	10539.5	10507.5	10400.6
15°	10494.6	10494.6	10513.9	10558.8	10676.3	10684.8	10763.9	10834.4	10843.0	10796.0	10714.8
17.5°	10840.8	10832.3	10821.6	10849.4	10975.5	10979.7	11116.5	11206.3	11229.8	11281.0	11268.2
20°	11499.0	11490.5	11488.3	11490.5	11481.9	11469.1	11603.7	11699.9	11819.6	11909.3	11954.2
22.5°	12441.4	12422.2	12422.2	12317.5	12236.3	12249.1	12270.5	12323.9	12482.0	12640.2	12809.0
25°	13456.5	13443.7	13454.3	13187.2	13078.2	13121.0	13093.2	13176.5	13383.8	13520.6	13700.1
27.5°	14285.6	14304.9	14245.0	14037.7	13967.2	13999.3	13935.2	14174.5	14403.2	14642.5	14913.9
30°	15317.8	15215.2	15067.8	14815.6	14789.9	14794.2	14789.9	15174.6	15649.0	15990.9	16367.0
32.5°	16666.2	16683.3	16352.1	15758.0	15540.0	15510.1	15595.6	16159.7	16800.8	17559.5	18055.2
35°	18029.6	18057.4	17815.9	17196.2	16574.3	16480.3	16354.2	17087.2	18012.5	19534.0	20282.0
37.5°	19476.3	19574.6	19288.3	18734.8	17997.5	17909.9	17313.7	18033.9	19401.5	21871.9	22852.7
40°	21412.4	21307.7	20961.5	20258.4	19572.5	19431.4	18739.1	19117.3	21188.0	24799.5	25511.1
42.5°	22839.9	22810.0	22517.2	21822.7	21132.5	21019.2	20461.5	20871.8	23438.3	27767.8	28086.2
45°	23972.5	24156.3	24149.9	23713.9	23325.0	23260.9	22931.8	23536.6	26158.6	30569.3	30413.3
47.5°	24979.0	25092.3	24910.6	24720.4	24538.8	24560.2	24803.8	26047.5	28938.8	33016.1	32325.9
50°	26626.6	26481.3	25667.1	25521.8	25778.2	25788.9	26530.4	28445.2	32001.1	35131.7	33945.7
52.5°	28823.4	28665.3	26992.0	26744.1	27351.0	27395.9	28628.9	30834.3	35159.5	37153.3	35557.0
55°	32093.0	31725.4	29932.5	28821.3	29099.1	29280.7	30774.5	33131.5	37632.0	38935.5	36777.2
57.5°	36108.3	36375.5	35456.6	32945.6	31789.5	31857.9	33229.8	35330.5	39813.8	40495.5	37491.0
60°	40352.3	40288.2	40672.9	39615.1	37401.2	37033.6	36334.9	37574.3	41504.2	41809.8	38226.1
62.5°	42677.4	43051.3	44333.5	44545.1	46543.1	46348.7	41585.4	40356.6	43457.4	42634.6	38426.9
65°	42664.5	42827.0	45213.9	47838.1	54080.2	54024.7	51810.8	44380.5	44912.6	43074.8	38025.2
67.5°	39907.9	40160.0	42950.9	48077.5	57563.5	57497.2	55967.2	50037.1	45369.9	42544.9	36151.1
70°	34881.7	34967.2	37689.7	44707.5	58963.2	59217.5	56110.3	52208.2	44233.1	40969.9	32734.1
72.5°	28776.4	28599.0	31261.7	38179.1	55398.7	55247.0	53738.3	49616.1	42318.4	37911.9	26697.1
75°	21188.0	21681.7	24070.8	30654.8	47432.1	47987.7	48656.6	45649.9	37585.0	31244.6	18461.3
77.5°	13990.7	14619.0	17033.8	22985.2	37550.8	38414.1	40147.2	38826.6	30575.7	22412.5	8791.5
80°	7229.4	7703.8	9877.1	15251.5	26919.4	28165.2	31342.9	29406.8	21677.4	10133.5	1968.1
82.5°	2735.3	2673.3	4425.7	8729.5	17260.3	18392.9	20702.9	17634.3	7714.5	1780.1	914.6
85°	1201.0	1271.5	1833.5	3981.2	9868.5	10016.0	11727.7	6874.6	1130.5	850.5	621.9
87.5°	519.3	596.2	769.3	1145.4	3329.4	3844.4	4756.9	2184.0	341.9	294.9	312.0
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°	9917.7	9917.7	9917.7	9917.7	9917.7	9917.7	9917.7	9917.7	9917.7	9917.7	9917.7
2.5°	9930.5	9917.7	9896.3	9842.9	9755.3	9744.6	9736.0	9727.5	9710.4	9718.9	9768.1
5°	9951.9	9928.3	9851.4	9774.5	9697.6	9629.2	9545.8	9513.8	9471.0	9443.3	9494.5
7.5°	10024.5	9975.4	9862.1	9757.4	9548.0	9447.5	9340.7	9214.6	9124.8	9067.2	9118.4
10°	10146.3	10084.3	9943.3	9727.5	9481.7	9206.1	9018.0	8808.6	8637.6	8590.6	8637.6
12.5°	10345.1	10253.2	10088.6	9795.9	9359.9	8998.8	8641.9	8366.2	8090.6	8011.5	8035.0
15°	10667.7	10595.1	10342.9	9939.0	9362.1	8810.7	8280.7	7836.3	7475.1	7349.0	7340.5
17.5°	11184.9	11108.0	10817.3	10223.3	9439.0	8663.3	7926.0	7248.6	6701.5	6423.7	6378.8
20°	11926.4	11819.6	11379.3	10642.1	9605.7	8599.2	7596.9	6686.6	5836.1	5314.6	5235.6
22.5°	12751.3	12638.0	11988.4	10964.8	9725.3	8473.1	7282.8	6064.7	4944.9	4308.1	4218.4
25°	13777.0	13529.1	12571.8	11270.4	9697.6	8208.1	6772.0	5220.6	4006.8	3455.5	3395.6
27.5°	14789.9	14475.8	13165.9	11430.6	9575.7	7787.1	6024.1	4233.3	3137.1	2746.0	2696.9
30°	16046.5	15439.6	13693.7	11505.4	9268.0	7156.7	5021.9	3218.3	2348.5	2079.3	2032.3
32.5°	17540.2	16621.3	14189.5	11422.1	8755.2	6195.1	3904.2	2357.1	1745.9	1577.1	1574.9
35°	19510.5	18070.2	14734.4	11148.6	7968.8	5158.6	2737.5	1611.3	1361.2	1303.5	1314.2
37.5°	21814.2	20031.9	15287.9	10699.8	7079.8	3947.0	1825.0	1241.6	1196.7	1198.8	1201.0
40°	24243.9	22198.8	16033.7	10069.4	6000.6	2857.1	1314.2	1115.5	1113.4	1134.7	1141.1
42.5°	26564.6	24303.7	16952.6	9229.6	4870.1	1889.1	1139.0	1064.2	1036.4	1045.0	1051.4
45°	28720.8	26109.5	17734.7	8411.1	3658.5	1348.4	1117.6	1004.4	961.6	957.4	961.6
47.5°	30458.2	27556.2	18211.2	7449.5	2607.1	1119.8	1072.8	948.8	889.0	876.2	869.7
50°	31781.0	28631.1	18384.3	6359.6	1763.0	1068.5	1012.9	884.7	812.0	814.2	814.2
52.5°	33071.7	29607.7	18183.5	5261.2	1297.1	1023.6	972.3	833.4	756.5	797.1	807.8
55°	34001.3	30018.0	17597.9	4073.1	1081.3	968.0	927.4	773.6	720.2	786.4	807.8
57.5°	34544.1	30340.7	16523.0	2940.5	991.6	914.6	869.7	718.0	668.9	686.0	696.7
60°	34881.7	29889.8	15101.9	2010.9	944.5	871.9	812.0	681.7	615.4	574.8	568.4
62.5°	34695.8	28761.4	13230.0	1382.6	895.4	824.9	762.9	647.5	559.9	506.5	502.2
65°	33180.7	26673.6	10157.0	1119.8	865.5	803.5	733.0	615.4	521.4	470.1	463.7
67.5°	30370.6	22921.1	5932.2	995.8	852.6	782.1	709.5	585.5	500.1	444.5	435.9
70°	25752.6	17241.1	1987.4	889.0	850.5	780.0	690.2	564.2	476.5	418.8	410.3
72.5°	18578.8	10402.8	968.0	782.1	795.0	747.9	675.3	547.1	461.6	388.9	374.0
75°	10558.8	3387.1	874.0	675.3	739.4	713.7	666.7	549.2	468.0	352.6	335.5
77.5°	3004.6	989.4	844.1	574.8	698.8	737.3	624.0	495.8	478.7	327.0	305.6
80°	1015.1	880.4	814.2	446.6	564.2	609.0	540.7	435.9	483.0	297.0	275.7
82.5°	814.2	884.7	683.8	356.9	429.5	461.6	429.5	391.1	391.1	265.0	247.9
85°	651.8	820.6	433.8	284.2	320.5	354.7	303.4	292.8	273.5	222.2	215.8
87.5°	378.2	256.4	179.5	145.3	134.6	136.8	117.5	141.0	173.1	151.7	149.6
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)