

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: P510618

Luminaire Tested: **CST-CA10-760-750-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510618  
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-CA10-760-750-U-T3-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: 101175 lumens  
Efficiency: N/A  
Efficacy: 132.8 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

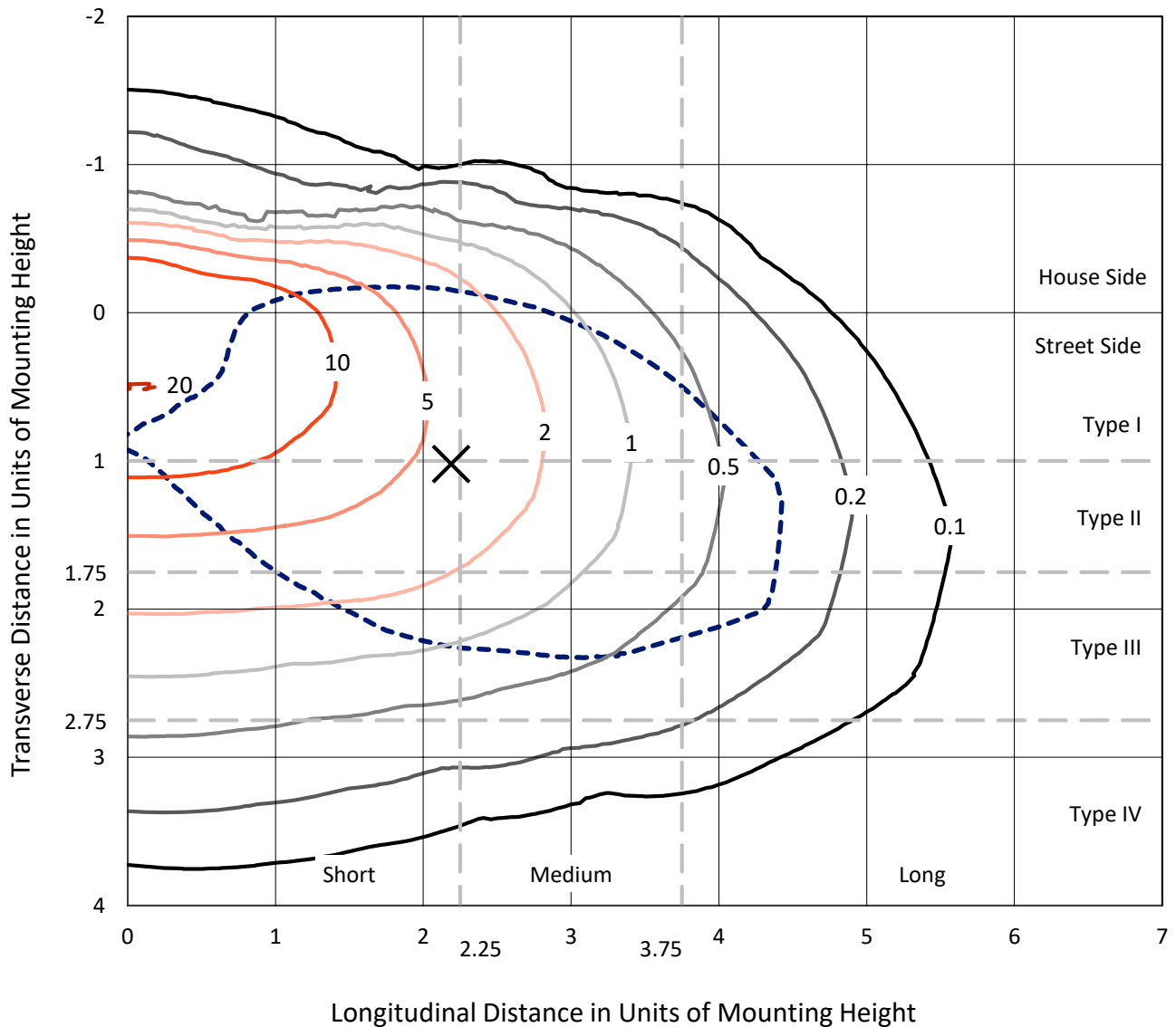
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P510618  
 CATALOG NUMBER: CST-CA10-760-750-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

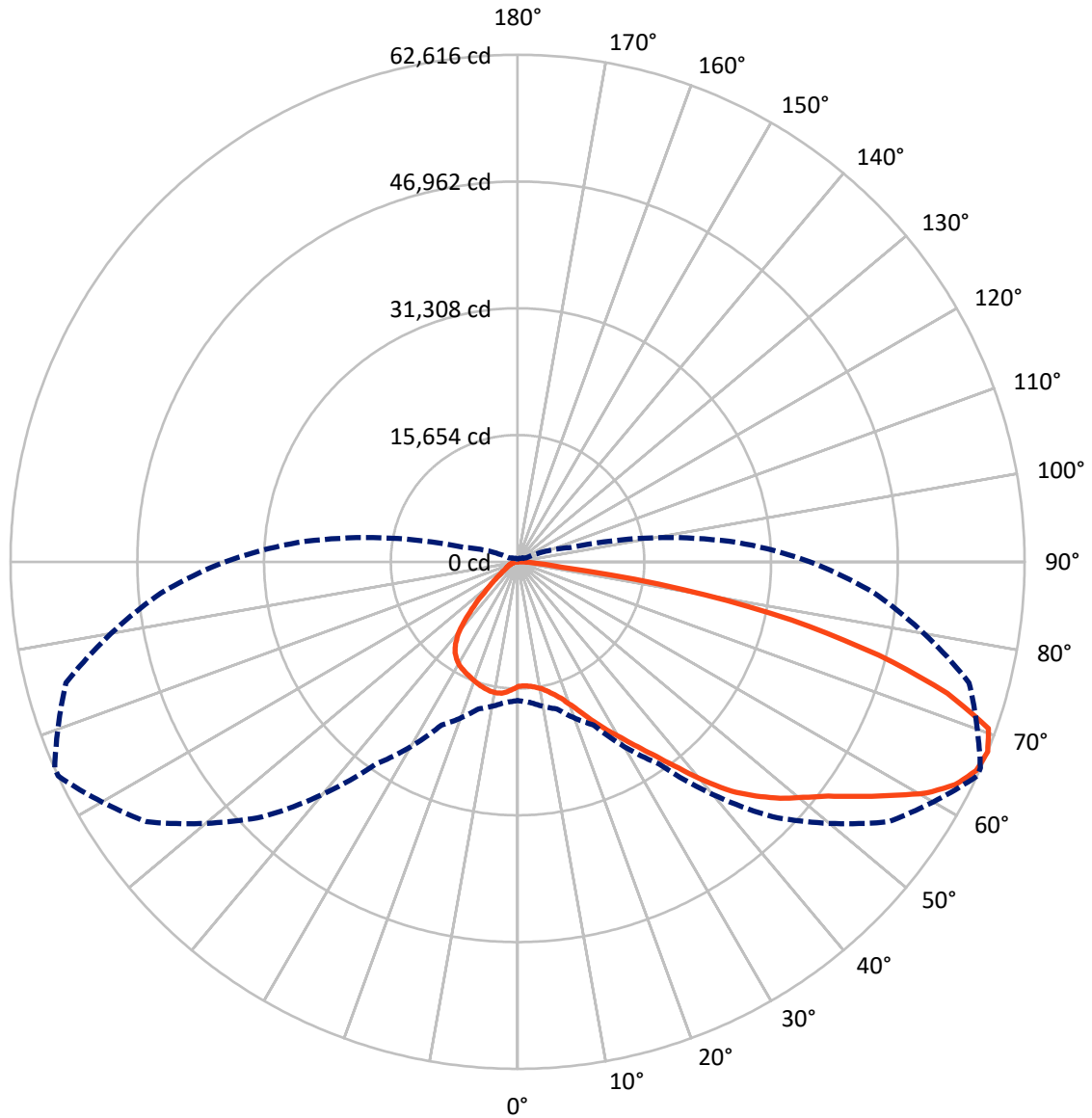
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 20.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P510618  
CATALOG NUMBER: CST-CA10-760-750-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P510618  
 CATALOG NUMBER: CST-CA10-760-750-U-T3-HSS

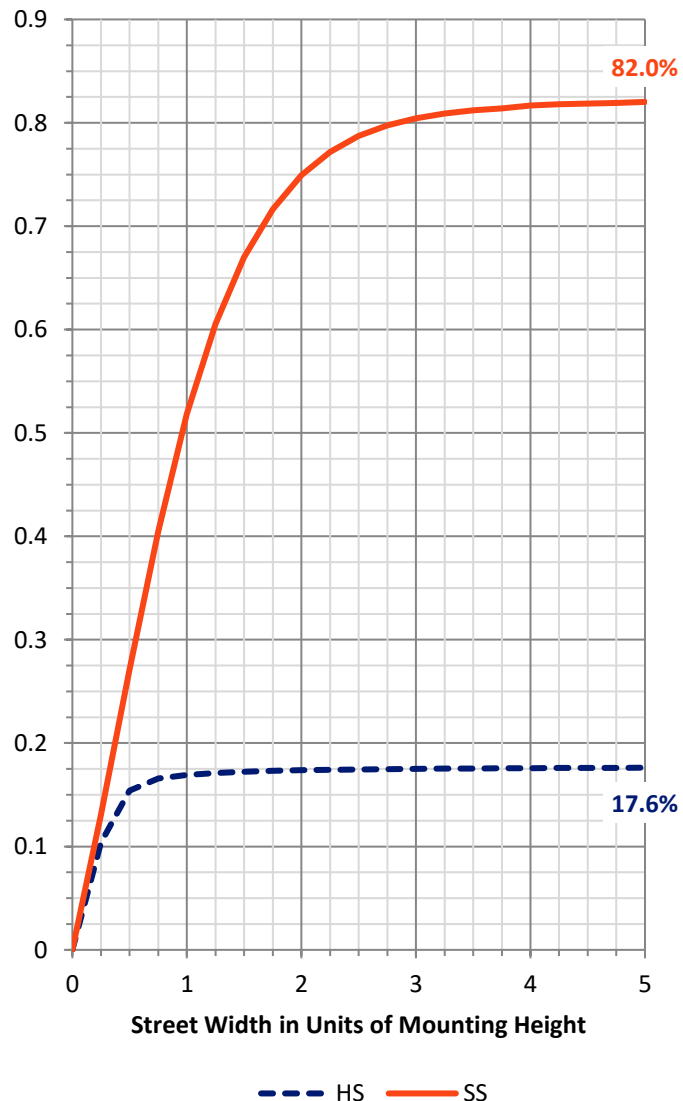
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18082.4	0.0	18082.4
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	83092.6	0.0	83092.6
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	101175.0	0.0	101175.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1521.0	1.5
10°-20°	4695.9	4.6
20°-30°	8146.5	8.1
30°-40°	12288.9	12.1
40°-50°	17039.4	16.8
50°-60°	21032.9	20.8
60°-70°	22410.2	22.1
70°-80°	12823.5	12.7
80°-90°	1216.7	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°	101175.0	100.0
0°-180°	101175.0	100.0

**Coefficient of Utilization**

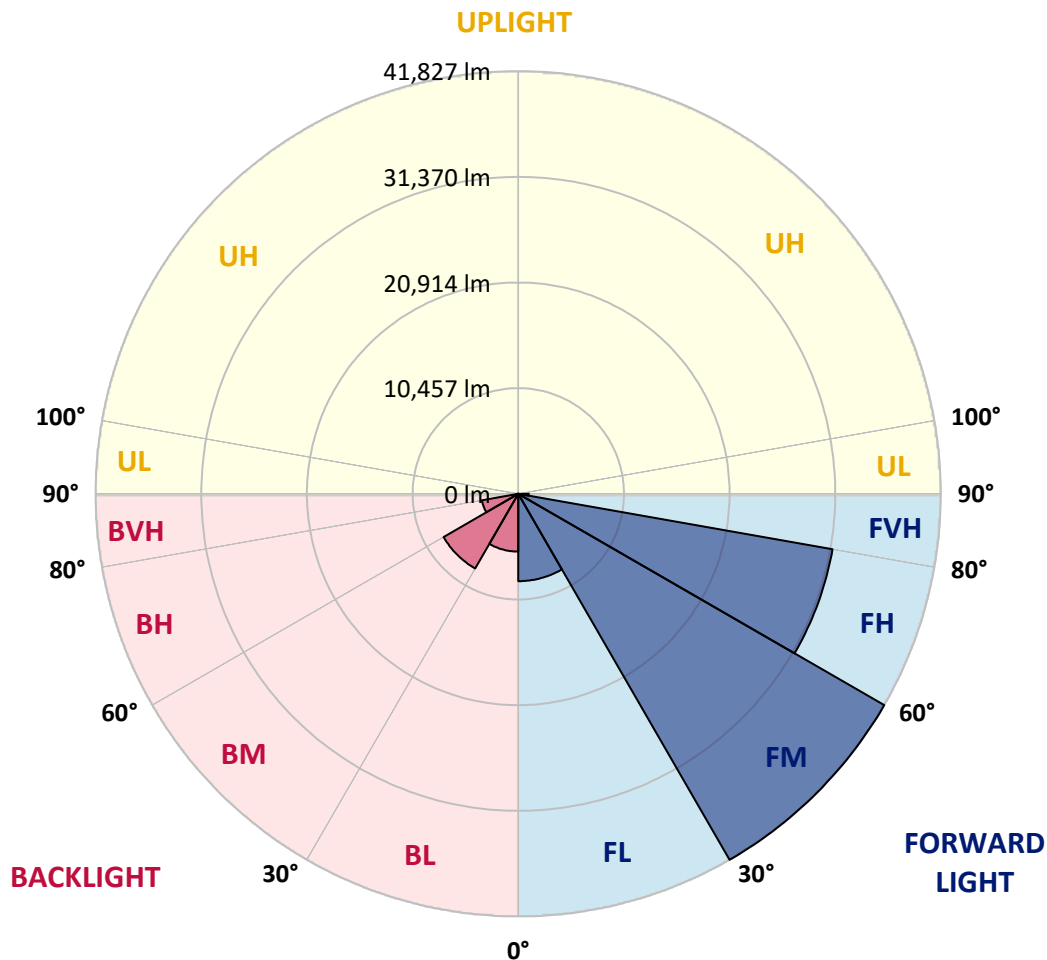


REPORT NUMBER: P510618  
 CATALOG NUMBER: CST-CA10-760-750-U-T3-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8641.7	8.5			
FM	(30°-60°)	41827.2	41.3			
FH	(60°-80°)	31584.1	31.2			G5
FVH	(80°-90°)	1039.6	1.0			G5
BL	(0°-30°)	5721.8	5.7	B5		
BM	(30°-60°)	8534.0	8.4	B5		
BH	(60°-80°)	3649.6	3.6	B4/5000		G4/5000
BVH	(80°-90°)	177.1	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type III Short





REPORT NUMBER: P510618

CATALOG NUMBER: CST-CA10-760-750-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	15374.2	15374.2	15374.2	15374.2	15374.2	15374.2	15374.2	15374.2	15374.2	15374.2	15374.2
2.5°	15225.7	15205.8	15188.0	15219.1	15236.8	15265.6	15307.7	15336.5	15345.4	15372.0	15405.2
5°	15469.5	15467.3	15442.9	15429.6	15391.9	15378.6	15387.5	15423.0	15425.2	15458.4	15562.6
7.5°	15948.2	15943.8	15883.9	15857.3	15777.6	15688.9	15622.4	15629.1	15626.9	15660.1	15799.7
10°	16670.7	16635.3	16551.0	16469.0	16313.9	16147.7	16025.8	15915.0	15915.0	15963.7	16118.9
12.5°	17486.3	17535.1	17419.8	17295.7	17036.4	16737.2	16524.4	16400.3	16387.0	16411.4	16522.2
15°	18499.1	18499.1	18421.6	18244.3	18016.0	17599.3	17160.5	17003.2	16981.0	17032.0	17025.3
17.5°	19640.5	19673.7	19527.5	19438.8	19088.7	18627.7	18078.0	17805.4	17805.4	17772.2	17619.3
20°	21096.6	20914.9	20930.4	20784.1	20527.0	19857.7	19299.2	18902.5	18898.1	18831.6	18401.6
22.5°	22679.0	22579.3	22492.8	22364.3	22009.7	21411.3	20635.6	20243.3	20234.5	20070.5	19432.2
25°	24239.2	24314.6	24219.3	23984.4	23725.1	23073.5	22218.0	21832.4	21830.2	21557.6	20653.3
27.5°	25843.8	25925.8	25894.8	25682.0	25336.3	24826.6	24017.6	23514.5	23483.5	23306.2	22169.3
30°	27616.8	27543.7	27639.0	27548.1	27375.3	26544.2	25812.8	25227.7	25303.1	25249.9	23891.3
32.5°	28906.7	28953.2	29265.7	29274.6	29092.9	28476.7	27583.6	27224.5	27344.2	27273.3	26007.8
35°	30072.4	30147.8	30551.2	30947.9	31080.8	30407.1	29498.4	29476.3	29631.4	30063.6	28924.4
37.5°	31074.2	31127.4	31692.5	32208.9	32638.9	32177.9	31517.4	32304.2	32532.5	33416.8	31934.1
40°	31674.8	31743.5	32474.9	33201.8	33968.6	33804.6	33742.6	35604.2	35819.2	36597.1	34130.4
42.5°	31335.7	31470.9	32689.8	34019.6	35147.7	35475.7	36324.5	38718.1	38964.1	39030.6	36289.1
45°	30730.7	30899.1	32262.1	34414.1	36253.6	37306.3	38922.0	41255.7	41390.9	41202.5	38077.6
47.5°	30079.1	30258.6	31781.2	34296.6	37142.3	39436.1	41242.4	43644.8	43740.1	43161.7	39879.4
50°	29338.9	29505.1	31142.9	34021.8	37811.6	41446.3	43627.1	45710.4	46067.2	44923.6	41280.1
52.5°	28439.1	28616.4	30353.9	33591.9	38398.9	42937.8	45730.3	48044.1	48068.5	47126.6	42858.1
55°	27273.3	27581.4	29363.2	32847.2	38707.0	44218.8	47563.2	51131.4	51288.7	50377.8	44178.9
57.5°	25976.8	26245.0	28170.9	31854.3	38430.0	45191.8	50510.8	54442.4	54422.5	52594.1	45333.6
60°	24263.6	24454.2	26617.3	30555.6	37536.8	46368.6	53580.3	57990.7	57955.2	54766.0	46076.1
62.5°	22065.1	22255.7	24290.2	28518.8	36224.8	47157.6	55663.6	60648.0	60546.0	56346.2	46304.3
65°	19516.4	19857.7	21624.1	25874.8	33904.4	46639.0	56669.8	62212.7	62048.7	57551.9	45759.1
67.5°	17127.3	17417.6	18816.1	22235.7	30480.2	44535.8	55960.6	62616.0	62567.3	57726.9	44218.8
70°	13745.2	13851.6	15132.6	18060.3	25360.7	40032.3	53509.4	61685.2	61707.4	56113.5	41124.9
72.5°	9408.0	9667.3	10236.9	12548.5	18454.8	31836.6	46120.4	55515.1	55519.6	50315.8	35830.3
75°	5059.7	5460.9	6125.7	7271.6	10316.7	20429.5	37038.2	46065.0	46151.4	41951.6	28479.0
77.5°	2508.8	2652.9	3038.5	3889.5	4729.5	9638.5	23820.4	34578.1	34784.2	32202.3	19423.3
80°	1148.0	1172.4	1201.2	1194.6	1810.7	4228.6	10225.8	20766.4	20828.4	19152.9	8867.3
82.5°	897.6	893.2	906.5	824.4	828.9	1631.2	3539.4	5438.7	5800.0	4565.5	2812.4
85°	543.0	540.8	582.9	452.1	556.3	882.1	1786.3	2169.7	2196.3	1786.3	1456.1
87.5°	206.1	199.5	183.9	161.8	186.2	248.2	618.3	797.9	780.1	554.1	503.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P510618

CATALOG NUMBER: CST-CA10-760-750-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15374.2	15374.2	15374.2	15374.2	15374.2	15374.2	15374.2	15374.2	15374.2	15374.2	15374.2
2.5°	15434.0	15505.0	15635.7	15735.5	15768.7	15875.1	15977.0	15994.8	16067.9	16096.7	16192.0
5°	15626.9	15746.5	15950.4	16085.6	16145.5	16322.8	16438.0	16495.6	16475.7	16486.8	16593.1
7.5°	15908.3	16021.3	16185.4	16349.4	16378.2	16409.2	16398.1	16389.2	16311.7	16245.2	16344.9
10°	16165.4	16271.8	16373.7	16398.1	16251.8	16169.8	16023.6	15910.5	15759.8	15691.1	15770.9
12.5°	16526.7	16548.8	16449.1	16316.1	16001.4	15708.9	15471.7	15265.6	15079.4	14950.9	15057.3
15°	16907.9	16821.4	16531.1	16143.2	15655.7	15236.8	14848.9	14505.4	14197.4	14122.0	14150.8
17.5°	17413.2	17178.2	16593.1	15941.6	15183.6	14532.0	14033.4	13599.0	13195.6	13027.2	13011.7
20°	18029.3	17650.3	16719.5	15686.7	14625.1	13758.5	12987.3	12337.9	11781.6	11325.1	11336.2
22.5°	18831.6	18281.9	16910.1	15420.7	14006.8	12852.1	11730.7	10627.0	9711.7	9317.2	9219.6
25°	19890.9	19070.9	17180.5	15179.2	13315.3	11699.6	10115.0	8557.0	7588.5	7205.1	7163.0
27.5°	21209.6	20130.3	17592.7	14911.0	12575.1	10332.2	8053.9	6526.9	5638.2	5234.8	5099.6
30°	22707.8	21435.7	18016.0	14631.8	11679.7	8574.7	6141.3	4645.3	3734.4	3373.1	3326.6
32.5°	24647.0	23089.0	18645.4	14192.9	10372.1	6739.6	4284.0	2898.9	2280.5	2125.4	2081.1
35°	27401.8	25325.2	19423.3	13638.9	8692.2	4707.3	2655.1	1697.7	1367.4	1289.9	1274.3
37.5°	29970.5	27519.3	20207.9	12719.1	6600.0	2938.8	1518.1	1088.2	1015.0	1017.3	1021.7
40°	32007.2	29019.7	20841.7	11509.0	4341.7	1668.8	1054.9	904.2	906.5	899.8	895.4
42.5°	33820.1	30216.5	21127.6	9720.5	2515.5	1117.0	915.3	833.3	813.4	820.0	815.6
45°	35320.5	31437.7	20573.5	7710.4	1482.7	1001.7	864.3	773.5	751.3	786.8	791.2
47.5°	36898.5	32596.8	19724.7	5808.8	1203.4	953.0	817.8	729.1	718.1	762.4	766.8
50°	38226.1	33436.7	18277.5	4377.1	1148.0	899.8	775.7	684.8	682.6	722.5	722.5
52.5°	39336.4	33944.3	16559.9	3379.8	1110.3	853.3	733.6	642.7	642.7	656.0	658.2
55°	40118.8	33842.3	15536.0	2659.5	1070.5	808.9	689.3	602.8	576.2	567.4	571.8
57.5°	40260.6	33571.9	14348.1	2074.4	1023.9	766.8	649.4	556.3	507.5	500.9	498.7
60°	40169.7	32978.0	12991.7	1733.1	970.7	726.9	609.5	507.5	458.8	443.3	447.7
62.5°	39790.7	31925.2	11424.8	1520.4	917.5	695.9	565.1	474.3	430.0	410.0	410.0
65°	38647.2	30418.2	9097.8	1332.0	851.0	662.7	529.7	461.0	412.2	390.1	385.6
67.5°	36133.9	27291.0	6837.2	1168.0	786.8	627.2	525.3	458.8	403.4	372.3	367.9
70°	32763.0	23443.6	4667.4	1026.1	715.9	594.0	523.0	461.0	394.5	354.6	350.2
72.5°	27350.9	18481.4	2688.3	893.2	644.9	562.9	514.2	463.2	379.0	330.2	323.6
75°	20551.4	12962.9	1578.0	766.8	576.2	516.4	489.8	449.9	354.6	301.4	294.8
77.5°	12360.1	6052.6	1187.9	636.1	494.2	454.3	436.6	412.2	323.6	279.2	272.6
80°	4534.5	2298.3	933.0	509.7	392.3	394.5	376.8	361.3	294.8	257.1	252.7
82.5°	1976.9	1405.1	689.3	387.8	308.1	352.4	310.3	297.0	252.7	230.5	221.6
85°	1199.0	837.7	443.3	263.7	212.8	239.4	217.2	228.3	195.0	181.7	175.1
87.5°	396.7	250.4	197.2	128.5	106.4	99.7	97.5	117.5	110.8	101.9	101.9
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)