

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: P510599

Luminaire Tested: **CST-CA10-760-730-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510599  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-11)  
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-T3  
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: 104814 lumens  
Efficiency: N/A  
Efficacy: 137.6 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

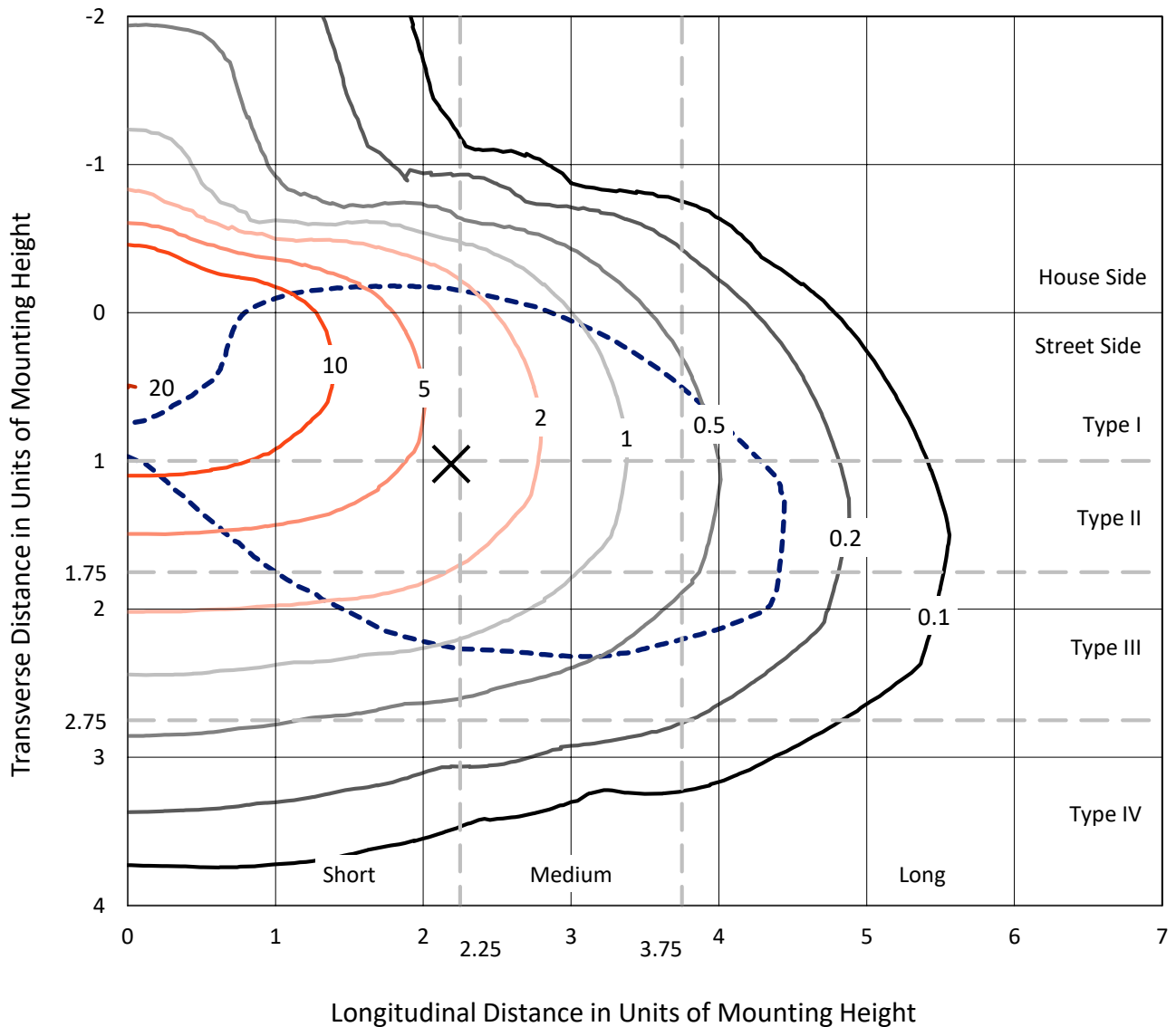
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

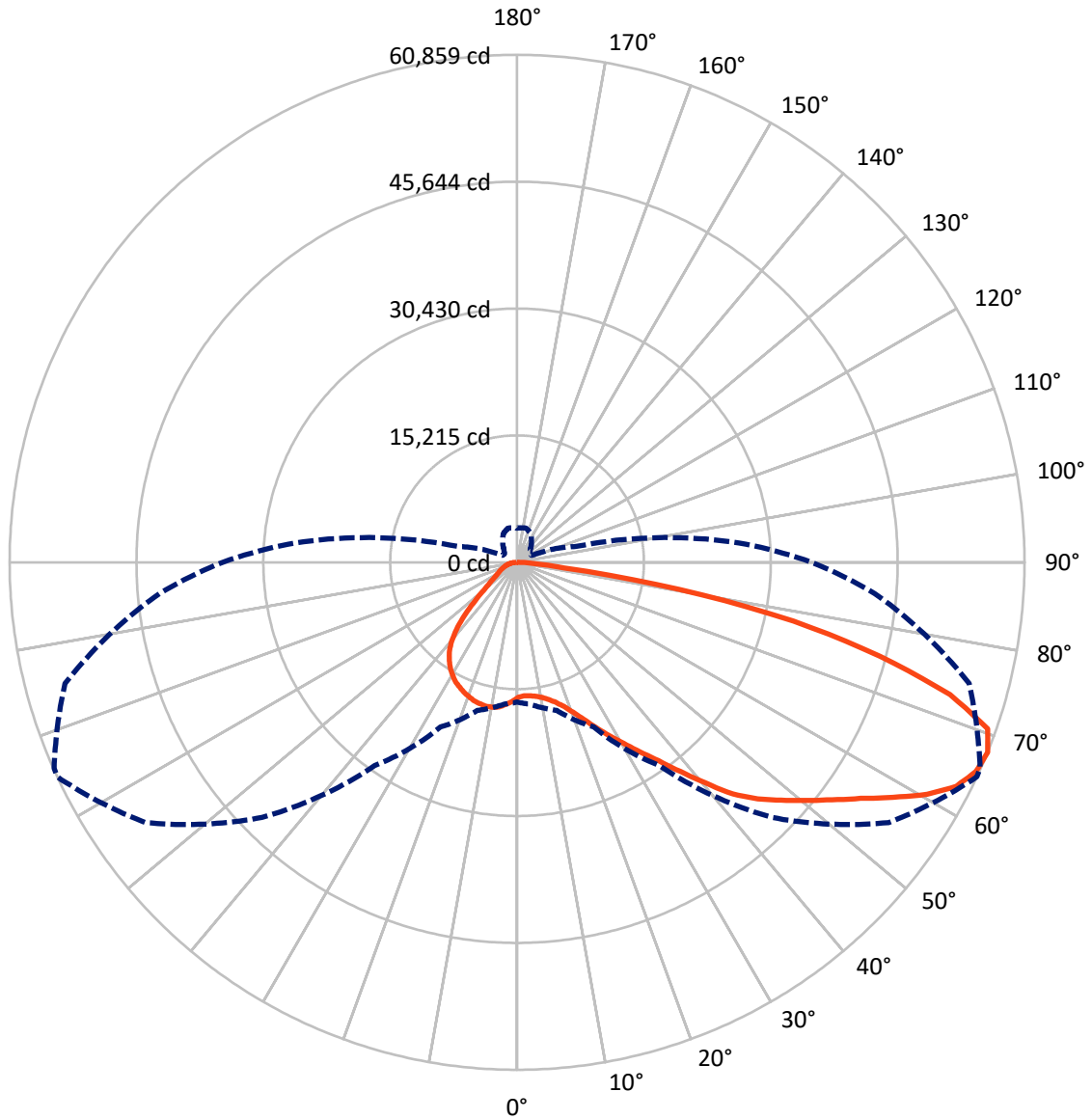
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 20 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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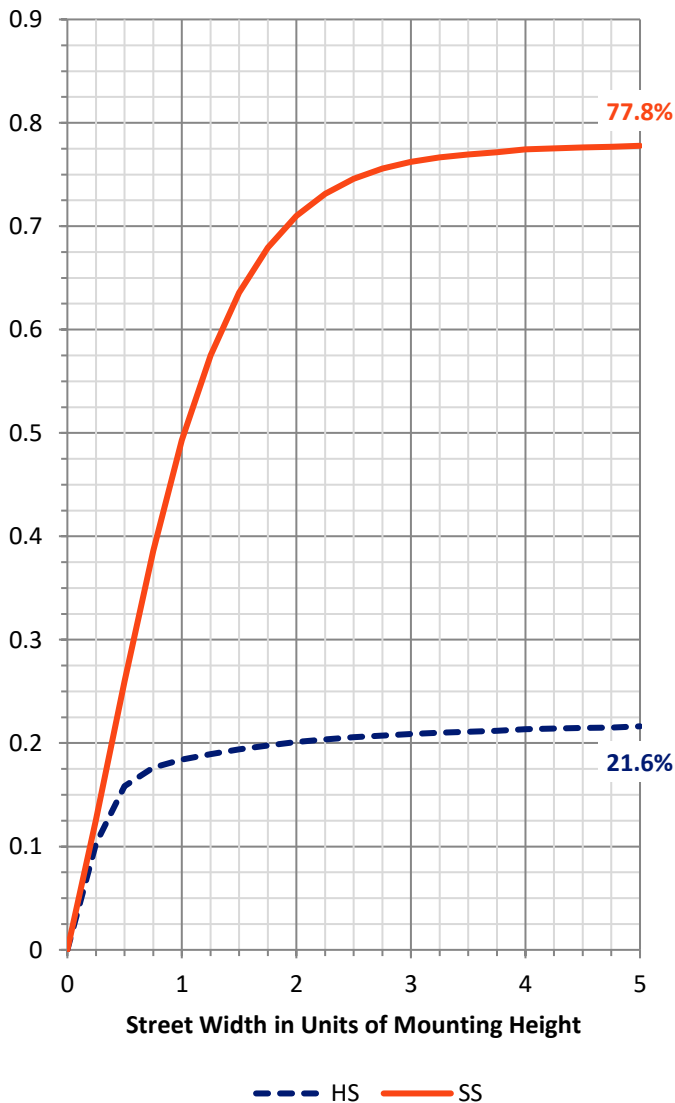
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23152.1	0.0	23152.1
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	81661.9	0.0	81661.9
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	104814.0	0.0	104814.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1613.1	1.5
10°-20°	5039.8	4.8
20°-30°	8724.5	8.3
30°-40°	12819.7	12.2
40°-50°	17327.5	16.5
50°-60°	21307.6	20.3
60°-70°	22832.4	21.8
70°-80°	13466.3	12.8
80°-90°	1683.3	1.6
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°	104814.0	100.0
0°-180°	104814.0	100.0

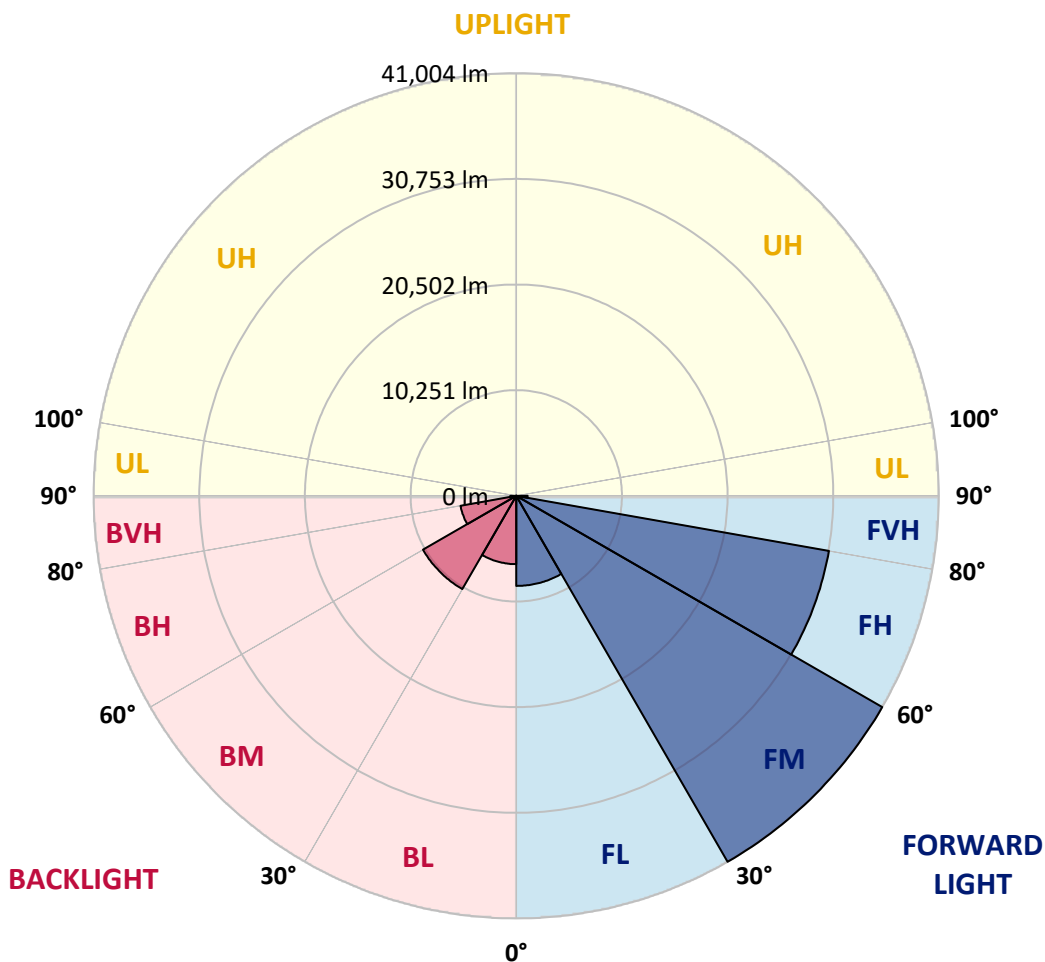


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8745.9	8.3			
FM (30°-60°)	41003.9	39.1			
FH (60°-80°)	30808.3	29.4			G5
FVH (80°-90°)	1103.8	1.1			G5
BL (0°-30°)	6631.4	6.3	B5		
BM (30°-60°)	10450.8	10.0	B5		
BH (60°-80°)	5490.5	5.2	B5		G5
BVH (80°-90°)	579.5	0.6			G4/750
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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	16189.8	16189.8	16189.8	16189.8	16189.8	16189.8	16189.8	16189.8	16189.8	16189.8	16189.8
2.5°	15884.2	15854.3	15841.5	15882.1	15912.0	15946.2	15995.3	16042.3	16048.7	16110.7	16191.9
5°	16076.5	16050.9	16023.1	16016.7	16006.0	16003.9	16016.7	16070.1	16082.9	16142.8	16318.0
7.5°	16503.9	16478.3	16427.0	16407.8	16350.1	16247.5	16198.3	16226.1	16232.5	16305.2	16523.2
10°	17200.6	17121.5	17059.5	16995.4	16813.8	16651.4	16531.7	16480.4	16469.7	16540.3	16792.4
12.5°	18031.9	17965.6	17897.2	17728.4	17497.6	17204.9	16993.3	16875.8	16867.2	16927.0	17117.2
15°	18910.2	18910.2	18863.2	18662.3	18435.8	17950.7	17623.7	17427.1	17439.9	17486.9	17574.6
17.5°	20044.9	19950.9	19929.5	19700.9	19448.7	19006.3	18487.0	18172.9	18187.9	18209.2	18143.0
20°	21198.9	21171.1	21139.0	20987.3	20758.7	20190.2	19606.8	19194.4	19196.5	19119.6	18824.7
22.5°	22724.7	22632.8	22656.3	22485.3	22175.5	21592.1	20921.1	20431.7	20463.8	20352.6	19818.4
25°	24239.8	24147.9	24098.8	23983.4	23716.2	23162.8	22365.7	21916.9	21878.4	21677.6	20901.8
27.5°	25752.8	25699.4	25740.0	25601.1	25383.1	24765.5	24034.7	23536.7	23562.4	23423.5	22267.4
30°	27319.2	27259.4	27436.7	27212.4	27077.7	26477.2	25776.3	25190.8	25212.1	25263.4	23966.3
32.5°	28501.0	28571.5	28881.3	28855.7	28830.0	28161.2	27423.9	27099.1	27131.1	27310.7	25983.6
35°	29642.1	29648.5	30084.5	30413.6	30552.5	29992.6	29227.5	29216.8	29426.3	29973.3	28795.9
37.5°	30588.8	30567.4	31148.7	31659.4	32039.8	31606.0	31185.0	31841.1	32031.3	33166.0	31627.4
40°	31105.9	31150.8	31898.8	32535.6	33283.5	33078.4	33123.2	34800.8	35268.8	36262.5	33745.1
42.5°	30742.6	30879.4	32044.1	33343.4	34471.7	34745.2	35647.0	37997.7	38196.4	38376.0	35828.7
45°	30133.6	30276.8	31567.5	33666.0	35452.6	36608.7	38158.0	40457.4	40675.4	40474.5	37561.8
47.5°	29498.9	29646.4	31084.6	33535.7	36264.6	38480.7	40391.1	42632.8	42910.6	42288.8	39228.6
50°	28693.3	28921.9	30494.8	33260.0	36922.8	40500.1	42504.6	44872.4	45000.6	44103.1	40491.6
52.5°	27701.7	27953.9	29654.9	32787.7	37437.8	41910.5	44643.7	47302.1	47289.3	46223.0	41936.2
55°	26658.9	26887.5	28639.9	32044.1	37726.3	42996.1	46353.3	49979.8	50133.6	49240.4	43244.0
57.5°	25323.3	25530.5	27441.0	31044.0	37427.1	43917.2	49122.8	53161.7	53238.7	51341.0	44284.7
60°	23553.8	23859.4	25778.4	29772.5	36568.1	44983.5	52174.5	56508.3	56602.3	53407.5	44953.6
62.5°	21611.3	21733.1	23688.5	27815.0	35317.9	45806.2	54290.1	59126.1	58989.3	55023.1	45154.5
65°	19243.5	19339.7	21032.2	25297.6	32995.0	45355.3	55048.7	60472.4	60303.5	56038.1	44536.9
67.5°	16764.6	17061.7	18390.9	21805.8	29753.2	43273.9	54407.6	60859.2	60773.7	56115.1	43062.4
70°	13546.3	13651.1	14852.0	17764.7	24825.3	39106.8	52270.6	59867.6	59801.4	54396.9	40051.4
72.5°	9552.3	9449.7	10033.1	12317.6	17931.4	31108.1	44628.8	54296.5	54407.6	48661.3	34877.7
75°	5071.1	5267.7	6175.9	7541.4	10165.6	19997.9	35580.8	44936.5	44898.0	40690.3	27569.2
77.5°	2701.1	2696.9	3320.9	3904.3	4977.0	9189.0	23468.4	33888.3	34076.3	31526.9	18929.4
80°	1297.1	1346.3	1384.8	1587.8	2481.0	4246.2	9817.3	19651.7	20933.9	18803.3	8992.4
82.5°	1038.6	1042.8	1047.1	1002.2	1025.8	1728.8	3782.5	5686.5	5891.7	4735.6	2899.9
85°	769.3	722.3	715.9	606.9	686.0	1038.6	1908.3	2427.6	2307.9	2246.0	1636.9
87.5°	309.9	290.6	282.1	265.0	265.0	391.1	673.1	878.3	876.2	799.2	549.2
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°	16189.8	16189.8	16189.8	16189.8	16189.8	16189.8	16189.8	16189.8	16189.8	16189.8	16189.8
2.5°	16256.0	16333.0	16512.5	16666.3	16724.0	16865.1	16997.6	17074.5	17127.9	17160.0	17305.3
5°	16424.9	16578.7	16865.1	17080.9	17290.3	17551.0	17719.9	17826.7	17886.6	17920.7	18025.5
7.5°	16683.4	16839.4	17142.9	17474.1	17666.4	17880.1	17989.1	18066.1	18104.5	18093.8	18177.2
10°	16914.2	17068.1	17371.5	17625.8	17734.8	17856.6	17914.3	17931.4	17933.6	17942.1	18025.5
12.5°	17228.4	17322.4	17484.8	17651.5	17628.0	17632.3	17681.4	17660.0	17610.9	17602.3	17657.9
15°	17566.0	17568.1	17581.0	17544.6	17397.2	17333.1	17264.7	17207.0	17072.4	17063.8	17151.4
17.5°	17989.1	17888.7	17655.8	17407.9	17057.4	16815.9	16572.3	16471.9	16307.3	16275.3	16318.0
20°	18534.1	18324.6	17758.3	17142.9	16486.8	16055.2	15760.3	15463.2	15234.6	15179.0	15219.6
22.5°	19316.2	18903.8	17888.7	16860.8	15845.7	15108.5	14535.8	14178.9	13794.2	13597.6	13616.9
25°	20260.7	19615.4	18115.2	16503.9	15091.4	14027.2	13097.6	12381.7	11947.9	11659.4	11736.3
27.5°	21498.1	20611.2	18386.6	16151.3	14153.2	12644.5	11296.1	10325.9	9883.6	9746.8	9657.0
30°	22932.0	21814.3	18673.0	15629.9	13140.3	10932.8	9206.1	8398.3	7891.9	7810.7	7742.3
32.5°	24851.0	23329.5	19209.3	15063.6	11930.8	9221.1	7347.0	6417.4	6302.0	6235.7	6220.8
35°	27325.6	25314.7	19771.4	14328.5	10353.7	7214.5	5558.3	5056.1	5000.5	5073.2	5079.6
37.5°	29952.0	27468.8	20444.5	13499.3	8539.4	5383.1	4252.6	3904.3	3966.2	4192.8	4244.0
40°	31729.9	28887.7	21055.7	12373.1	6297.7	3910.7	3094.4	3019.6	3361.5	3652.1	3711.9
42.5°	33435.2	29962.7	21303.6	10883.7	4491.9	2784.5	2498.1	2754.6	3233.3	3551.7	3594.4
45°	34890.5	31212.8	20679.6	9097.1	3045.2	2327.2	2393.4	2748.2	3280.3	3632.9	3664.9
47.5°	36275.3	32234.3	19826.9	7167.4	2402.0	2239.6	2391.3	2805.9	3385.0	3718.4	3737.6
50°	37598.1	33012.1	18371.7	5453.6	2250.2	2199.0	2410.5	2895.6	3442.7	3652.1	3643.6
52.5°	38579.0	33413.9	16822.3	4402.2	2190.4	2166.9	2461.8	3008.9	3453.4	3579.4	3570.9
55°	39299.1	33336.9	15805.1	3605.1	2141.3	2154.1	2545.1	3094.4	3555.9	3746.1	3739.7
57.5°	39365.4	32988.6	14649.0	3045.2	2081.4	2151.9	2634.9	3214.0	4068.8	4419.3	4312.4
60°	39286.3	32411.6	13495.1	2673.4	2015.2	2164.8	2728.9	3573.0	4808.2	5083.9	5009.1
62.5°	38897.4	31336.7	11766.2	2427.6	1957.5	2211.8	2799.4	3857.3	4771.9	4803.9	4697.1
65°	37696.4	29898.5	9496.8	2179.7	1899.8	2243.8	2857.1	3932.1	4383.0	4280.4	4227.0
67.5°	35320.1	26686.7	7325.6	1953.2	1825.0	2237.4	3028.1	3825.2	4235.5	4160.7	4092.3
70°	31943.6	23036.7	5086.0	1720.3	1698.9	2196.8	2985.4	3861.5	4165.0	4049.6	3957.7
72.5°	26686.7	18072.5	3235.4	1530.1	1510.8	2100.7	2878.5	3838.0	4118.0	4066.7	3940.6
75°	20094.1	12614.6	2055.8	1322.8	1344.2	1925.4	2707.6	3711.9	4094.5	3934.2	3692.7
77.5°	12650.9	6227.2	1598.5	1124.1	1156.1	1660.4	2340.0	3241.8	3929.9	3833.7	3523.9
80°	4784.7	2528.1	1250.1	912.5	940.3	1290.7	1919.0	2667.0	3617.9	3776.1	3643.6
82.5°	2203.2	1581.4	938.1	733.0	743.7	940.3	1431.8	1974.6	3062.3	3466.2	3797.4
85°	1286.5	1036.4	626.1	489.4	508.6	555.6	805.6	1205.3	1985.3	2643.4	2957.6
87.5°	438.1	361.2	243.6	207.3	200.9	228.7	194.5	395.3	589.8	1038.6	1186.0
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)