

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: P510519

Luminaire Tested: **CST-CA10-630-722-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510519  
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-CA10-630-722-U-T3  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 75352 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

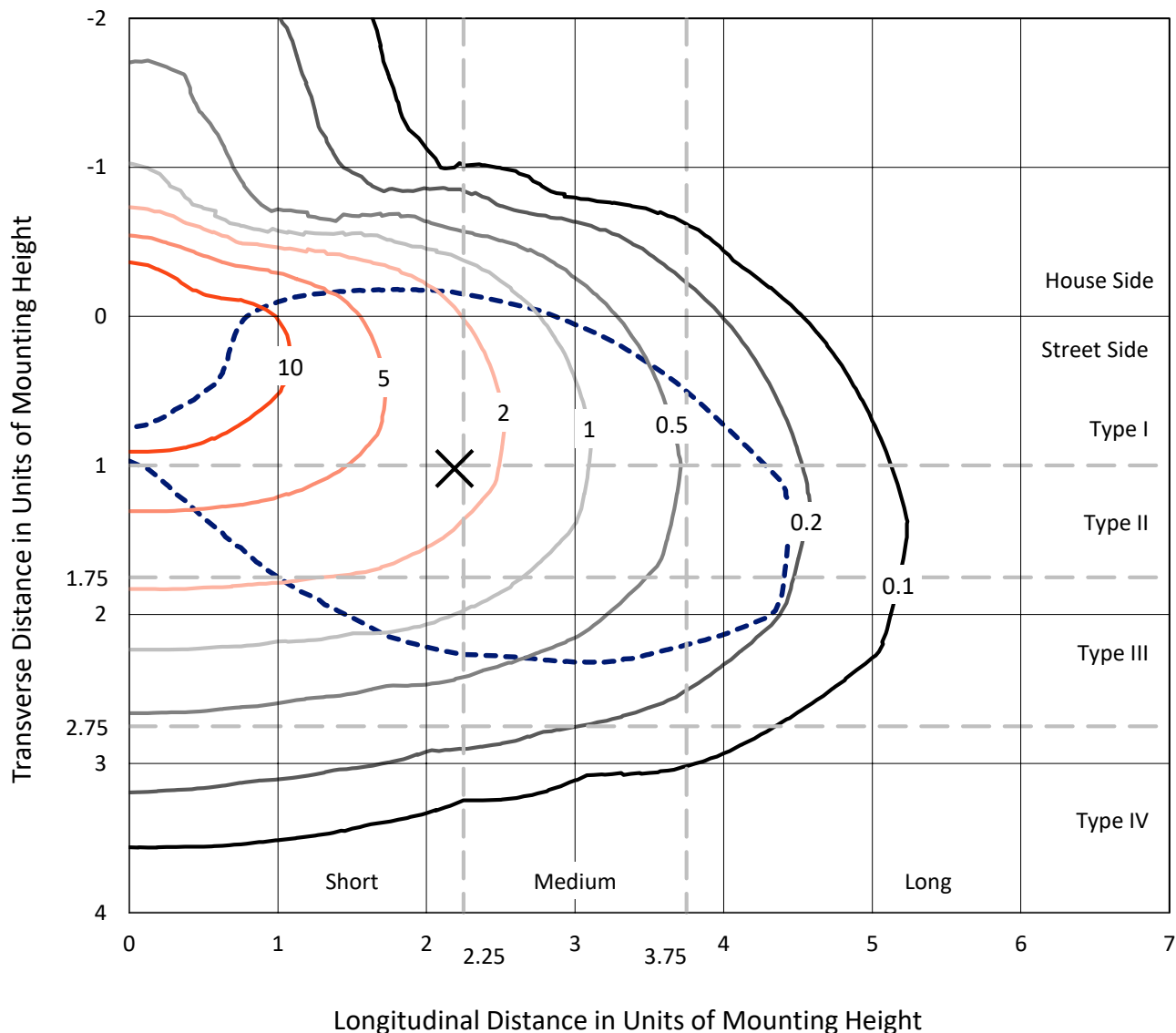
Input Watts (W): 631.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

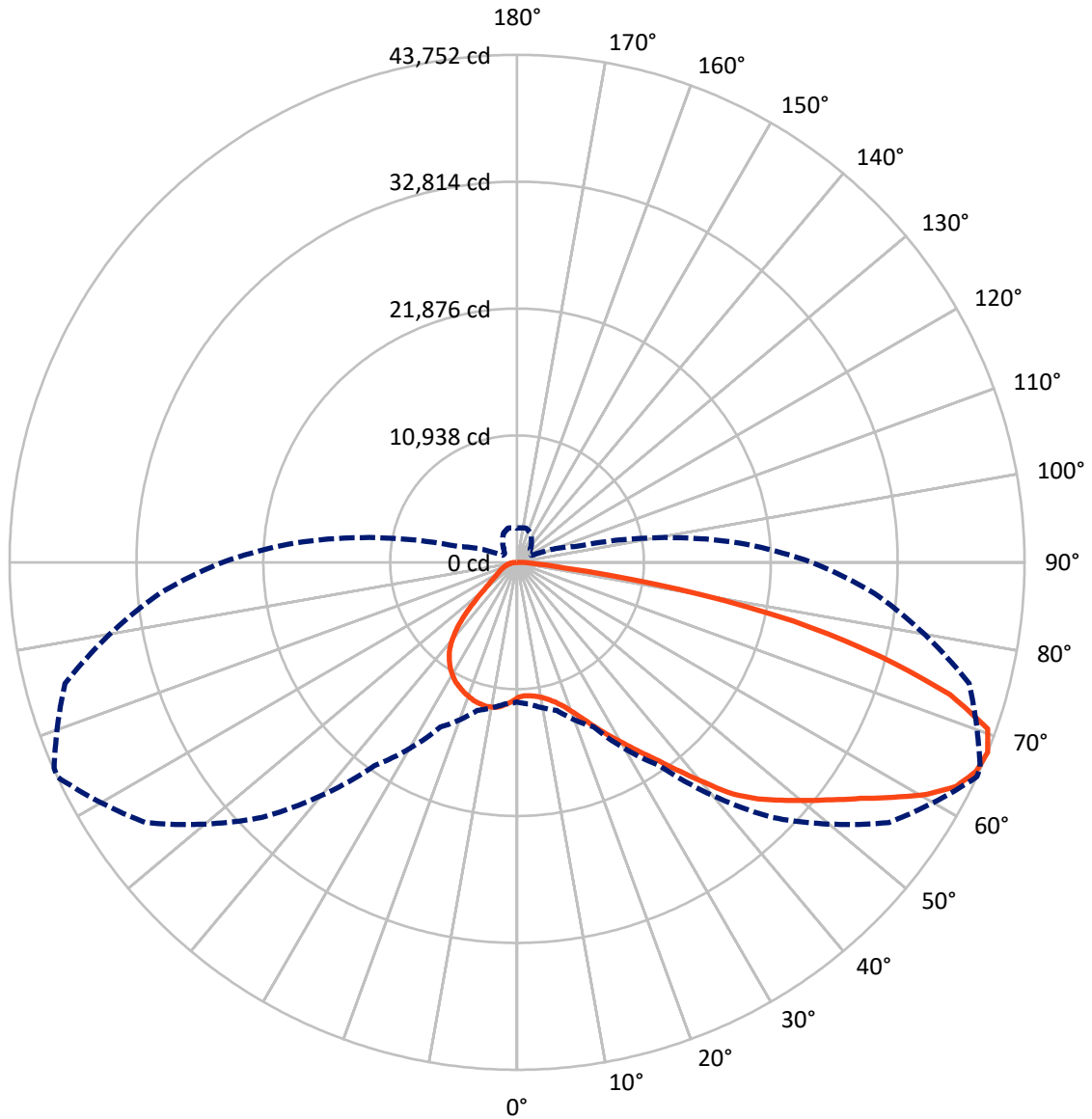
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.4 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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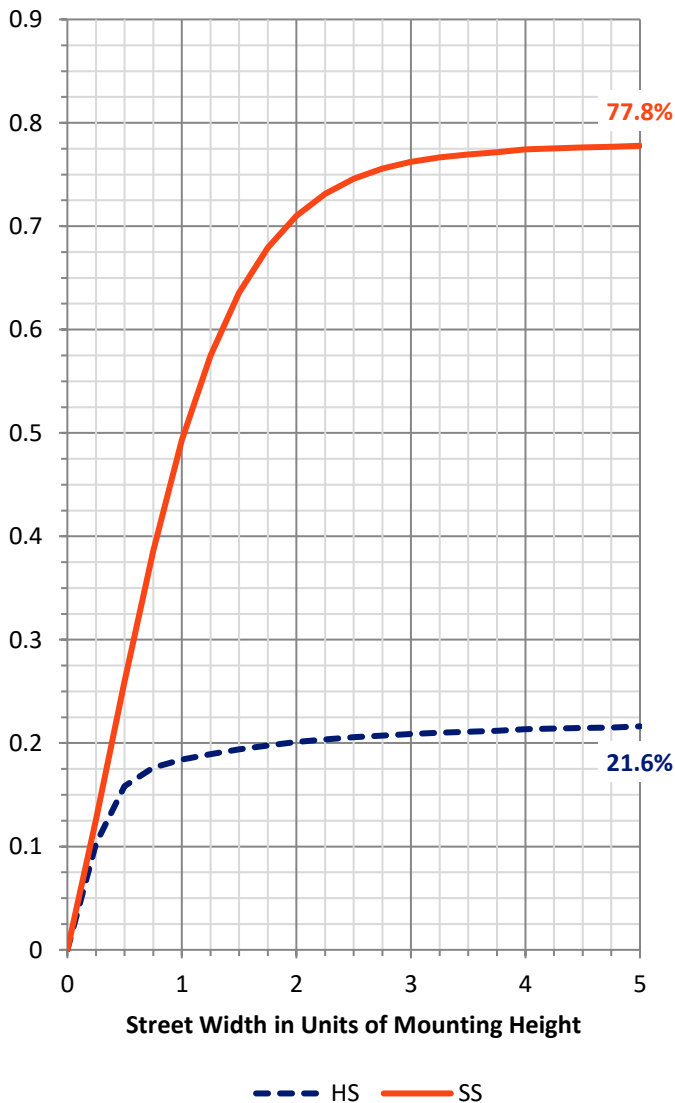
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16644.3	0.0	16644.3
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	58707.7	0.0	58707.7
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	75352.0	0.0	75352.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1159.6	1.5
10°-20°	3623.1	4.8
20°-30°	6272.1	8.3
30°-40°	9216.2	12.2
40°-50°	12456.9	16.5
50°-60°	15318.3	20.3
60°-70°	16414.5	21.8
70°-80°	9681.1	12.8
80°-90°	1210.1	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°	75352.0	100.0
0°-180°	75352.0	100.0

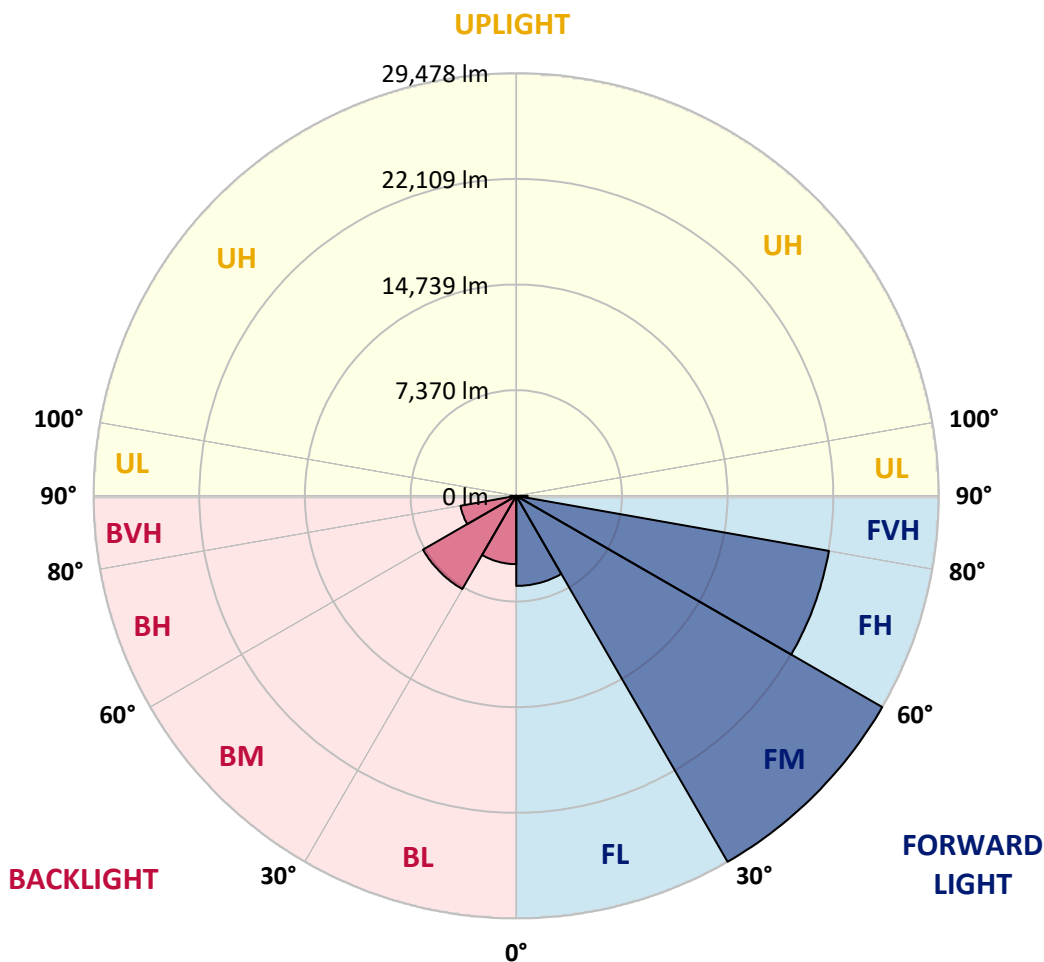


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6287.5	8.3			
FM (30°-60°)	29478.2	39.1			
FH (60°-80°)	22148.4	29.4			G5
FVH (80°-90°)	793.5	1.1			G5
BL (0°-30°)	4767.4	6.3	B4/5000		
BM (30°-60°)	7513.2	10.0	B4/8500		
BH (60°-80°)	3947.2	5.2	B4/5000		G4/5000
BVH (80°-90°)	416.6	0.6			G3/500
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°	11639.0	11639.0	11639.0	11639.0	11639.0	11639.0	11639.0	11639.0	11639.0	11639.0	11639.0
2.5°	11419.3	11397.8	11388.6	11417.8	11439.3	11463.9	11499.2	11533.0	11537.6	11582.2	11640.6
5°	11557.6	11539.2	11519.2	11514.6	11506.9	11505.4	11514.6	11553.0	11562.2	11605.2	11731.2
7.5°	11864.9	11846.4	11809.6	11795.7	11754.3	11680.5	11645.2	11665.1	11669.8	11722.0	11878.7
10°	12365.7	12308.9	12264.3	12218.2	12087.6	11970.9	11884.8	11848.0	11840.3	11891.0	12072.3
12.5°	12963.3	12915.7	12866.5	12745.2	12579.2	12368.8	12216.7	12132.2	12126.0	12169.1	12305.8
15°	13594.7	13594.7	13560.9	13416.5	13253.7	12904.9	12669.9	12528.5	12537.8	12571.6	12634.6
17.5°	14410.5	14342.9	14327.6	14163.2	13981.9	13663.9	13290.6	13064.7	13075.5	13090.8	13043.2
20°	15240.1	15220.1	15197.1	15088.0	14923.6	14515.0	14095.6	13799.1	13800.6	13745.3	13533.3
22.5°	16337.0	16271.0	16287.9	16165.0	15942.2	15522.8	15040.4	14688.6	14711.6	14631.7	14247.7
25°	17426.3	17360.2	17324.9	17241.9	17049.9	16652.0	16078.9	15756.3	15728.7	15584.3	15026.6
27.5°	18514.0	18475.6	18504.8	18404.9	18248.2	17804.2	17278.8	16920.8	16939.3	16839.4	16008.3
30°	19640.1	19597.1	19724.6	19563.3	19466.5	19034.8	18530.9	18109.9	18125.3	18162.2	17229.6
32.5°	20489.7	20540.4	20763.1	20744.7	20726.3	20245.4	19715.4	19481.9	19504.9	19633.9	18679.9
35°	21310.1	21314.7	21628.1	21864.7	21964.5	21562.0	21012.0	21004.3	21154.9	21548.2	20701.7
37.5°	21990.6	21975.3	22393.1	22760.3	23033.8	22721.9	22419.3	22890.9	23027.6	23843.4	22737.3
40°	22362.4	22394.7	22932.4	23390.2	23927.9	23780.4	23812.7	25018.7	25355.1	26069.5	24259.8
42.5°	22101.2	22199.6	23036.9	23970.9	24782.1	24978.7	25627.1	27317.0	27459.9	27588.9	25757.6
45°	21663.4	21766.3	22694.3	24202.9	25487.3	26318.4	27432.2	29085.3	29242.0	29097.6	27003.6
47.5°	21207.1	21313.1	22347.1	24109.2	26071.1	27664.2	29037.7	30649.2	30849.0	30401.9	28201.9
50°	20627.9	20792.3	21923.0	23911.0	26544.2	29116.0	30557.1	32259.3	32351.5	31706.2	29109.9
52.5°	19915.1	20096.4	21319.3	23571.5	26914.5	30130.0	32094.9	34006.1	33996.8	33230.2	30148.4
55°	19165.4	19329.8	20589.5	23036.9	27121.9	30910.4	33323.9	35931.0	36041.7	35399.5	31088.6
57.5°	18205.2	18354.2	19727.7	22317.9	26906.8	31572.6	35315.0	38218.6	38273.9	36909.7	31836.8
60°	16933.1	17152.8	18532.4	21403.8	26289.2	32339.2	37508.8	40624.4	40692.0	38395.3	32317.7
62.5°	15536.6	15624.2	17029.9	19996.5	25390.5	32930.6	39029.8	42506.4	42408.1	39556.7	32462.1
65°	13834.4	13903.5	15120.3	18186.7	23720.5	32606.5	39575.2	43474.3	43352.9	40286.5	32018.1
67.5°	12052.3	12265.8	13221.4	15676.4	21389.9	31110.1	39114.3	43752.4	43690.9	40341.8	30958.0
70°	9738.6	9813.9	10677.3	12771.3	17847.2	28114.3	37578.0	43039.5	42991.9	39106.6	28793.4
72.5°	6867.3	6793.5	7212.9	8855.2	12891.1	22364.0	32084.1	39034.4	39114.3	34983.1	25074.0
75°	3645.6	3787.0	4439.9	5421.6	7308.2	14376.7	25579.4	32305.4	32277.7	29252.7	19819.8
77.5°	1941.9	1938.8	2387.4	2806.8	3578.0	6606.1	16871.7	24362.7	24497.9	22665.1	13608.6
80°	932.5	967.9	995.5	1141.5	1783.6	3052.6	7057.8	14127.8	15049.6	13517.9	6464.8
82.5°	746.6	749.7	752.8	720.5	737.4	1242.9	2719.3	4088.1	4235.6	3404.4	2084.8
85°	553.1	519.3	514.7	436.3	493.2	746.6	1371.9	1745.2	1659.2	1614.7	1176.8
87.5°	222.8	208.9	202.8	190.5	190.5	281.1	483.9	631.4	629.9	574.6	394.8
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°	11639.0	11639.0	11639.0	11639.0	11639.0	11639.0	11639.0	11639.0	11639.0	11639.0	11639.0
2.5°	11686.7	11742.0	11871.0	11981.6	12023.1	12124.5	12219.7	12275.1	12313.5	12336.5	12441.0
5°	11808.0	11918.6	12124.5	12279.7	12430.2	12617.7	12739.0	12815.8	12858.9	12883.4	12958.7
7.5°	11993.9	12106.1	12324.2	12562.3	12700.6	12854.2	12932.6	12987.9	13015.6	13007.9	13067.8
10°	12159.8	12270.4	12488.6	12671.4	12749.8	12837.3	12878.8	12891.1	12892.7	12898.8	12958.7
12.5°	12385.7	12453.3	12570.0	12689.9	12673.0	12676.0	12711.4	12696.0	12660.7	12654.5	12694.5
15°	12628.4	12629.9	12639.2	12613.0	12507.0	12460.9	12411.8	12370.3	12273.5	12267.4	12330.4
17.5°	12932.6	12860.4	12692.9	12514.7	12262.8	12089.2	11914.0	11841.8	11723.5	11700.5	11731.2
20°	13324.4	13173.8	12766.7	12324.2	11852.6	11542.2	11330.2	11116.7	10952.3	10912.4	10941.5
22.5°	13886.6	13590.1	12860.4	12121.4	11391.7	10861.7	10449.9	10193.4	9916.8	9775.5	9789.3
25°	14565.7	14101.7	13023.2	11864.9	10849.4	10084.3	9416.0	8901.3	8589.5	8382.1	8437.4
27.5°	15455.2	14817.6	13218.3	11611.4	10174.9	9090.3	8120.9	7423.4	7105.4	7007.1	6942.6
30°	16486.1	15682.6	13424.2	11236.5	9446.7	7859.7	6618.4	6037.7	5673.6	5615.2	5566.0
32.5°	17865.7	16771.8	13809.8	10829.4	8577.2	6629.1	5281.8	4613.5	4530.6	4482.9	4472.2
35°	19644.7	18199.0	14213.9	10300.9	7443.4	5186.6	3995.9	3634.9	3594.9	3647.2	3651.8
37.5°	21532.8	19747.6	14697.8	9704.8	6139.1	3869.9	3057.2	2806.8	2851.4	3014.2	3051.1
40°	22811.0	20767.7	15137.2	8895.2	4527.5	2811.4	2224.6	2170.8	2416.6	2625.5	2668.6
42.5°	24037.0	21540.5	15315.4	7824.4	3229.3	2001.8	1795.9	1980.3	2324.4	2553.3	2584.1
45°	25083.2	22439.2	14866.8	6540.0	2189.2	1673.0	1720.7	1975.7	2358.2	2611.7	2634.8
47.5°	26078.7	23173.6	14253.8	5152.8	1726.8	1610.0	1719.1	2017.2	2433.5	2673.2	2687.0
50°	27029.7	23732.8	13207.6	3920.6	1617.7	1580.9	1732.9	2081.7	2475.0	2625.5	2619.4
52.5°	27734.9	24021.6	12093.8	3164.8	1574.7	1557.8	1769.8	2163.1	2482.7	2573.3	2567.2
55°	28252.6	23966.3	11362.5	2591.7	1539.4	1548.6	1829.7	2224.6	2556.4	2693.1	2688.5
57.5°	28300.2	23715.9	10531.4	2189.2	1496.4	1547.1	1894.3	2310.6	2925.1	3177.1	3100.3
60°	28243.4	23301.1	9701.8	1921.9	1448.7	1556.3	1961.9	2568.7	3456.7	3654.9	3601.1
62.5°	27963.8	22528.3	8458.9	1745.2	1407.3	1590.1	2012.6	2773.0	3430.6	3453.6	3376.8
65°	27100.4	21494.4	6827.3	1567.0	1365.8	1613.1	2054.0	2826.8	3151.0	3077.2	3038.8
67.5°	25392.0	19185.3	5266.4	1404.2	1312.0	1608.5	2176.9	2750.0	3045.0	2991.2	2942.0
70°	22964.6	16561.3	3656.4	1236.7	1221.4	1579.3	2146.2	2776.1	2994.3	2911.3	2845.2
72.5°	19185.3	12992.5	2326.0	1100.0	1086.2	1510.2	2069.4	2759.2	2960.5	2923.6	2832.9
75°	14445.9	9068.8	1477.9	951.0	966.3	1384.2	1946.5	2668.6	2943.6	2828.3	2654.7
77.5°	9094.9	4476.8	1149.2	808.1	831.1	1193.7	1682.3	2330.6	2825.3	2756.1	2533.4
80°	3439.8	1817.4	898.7	656.0	676.0	927.9	1379.6	1917.3	2601.0	2714.6	2619.4
82.5°	1583.9	1136.9	674.4	527.0	534.6	676.0	1029.3	1419.5	2201.5	2491.9	2730.0
85°	924.9	745.1	450.1	351.8	365.6	399.4	579.2	866.5	1427.2	1900.4	2126.2
87.5°	314.9	259.6	175.1	149.0	144.4	164.4	139.8	284.2	424.0	746.6	852.6
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)