

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: P510559

Luminaire Tested: **CST-CA10-630-750-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510559
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-CA10-630-750-U-T3
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: 94153 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

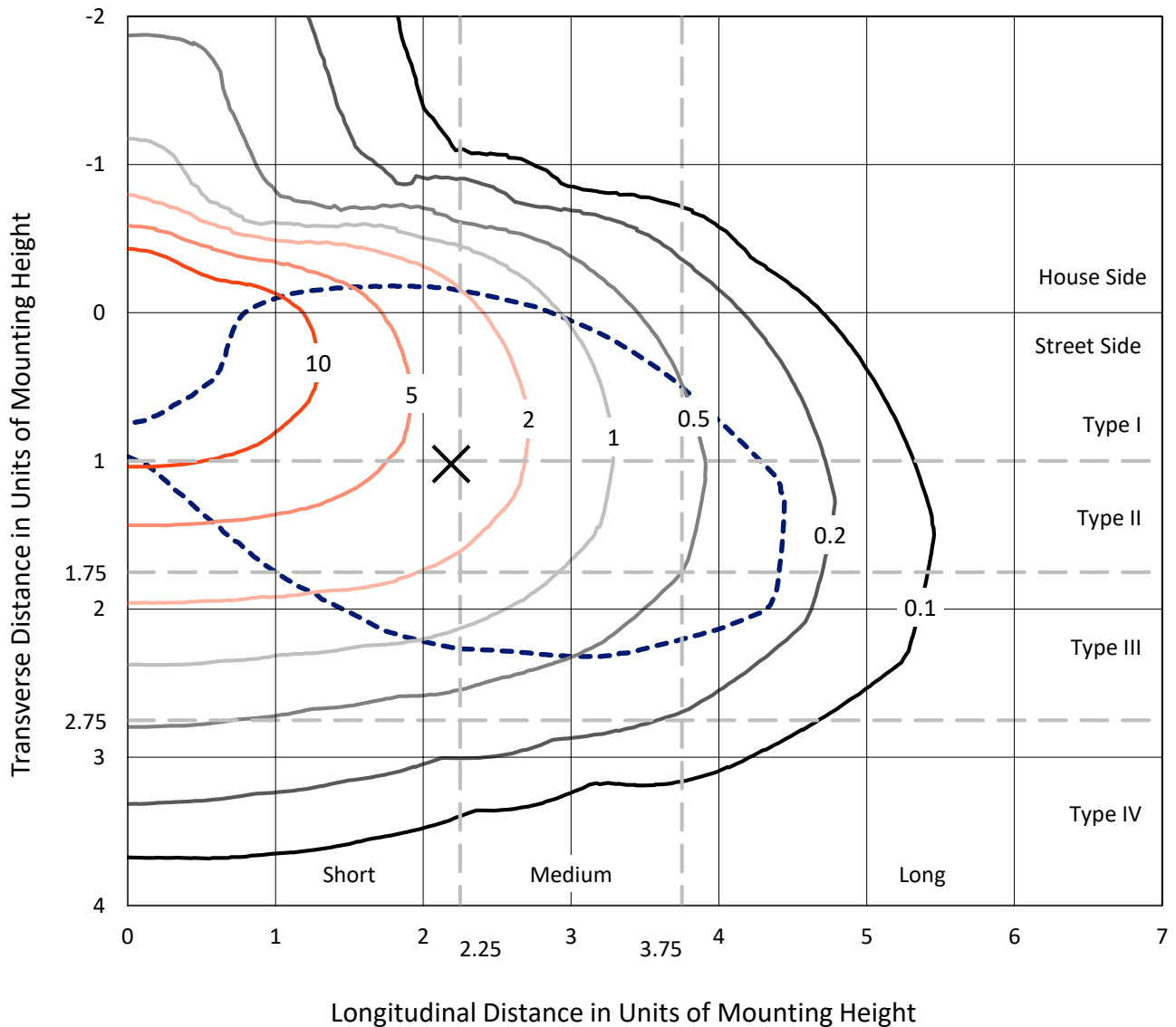
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

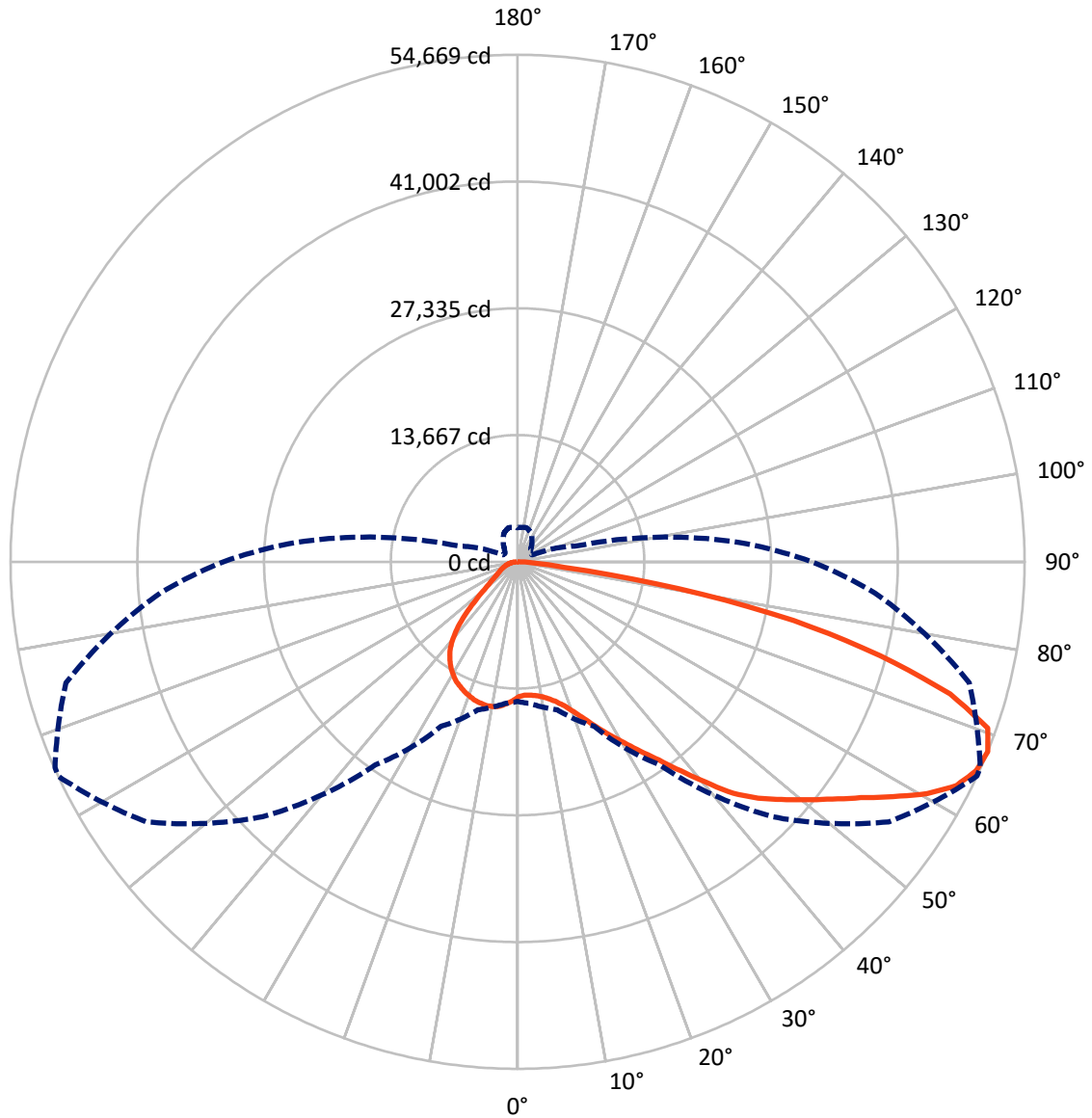
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 18 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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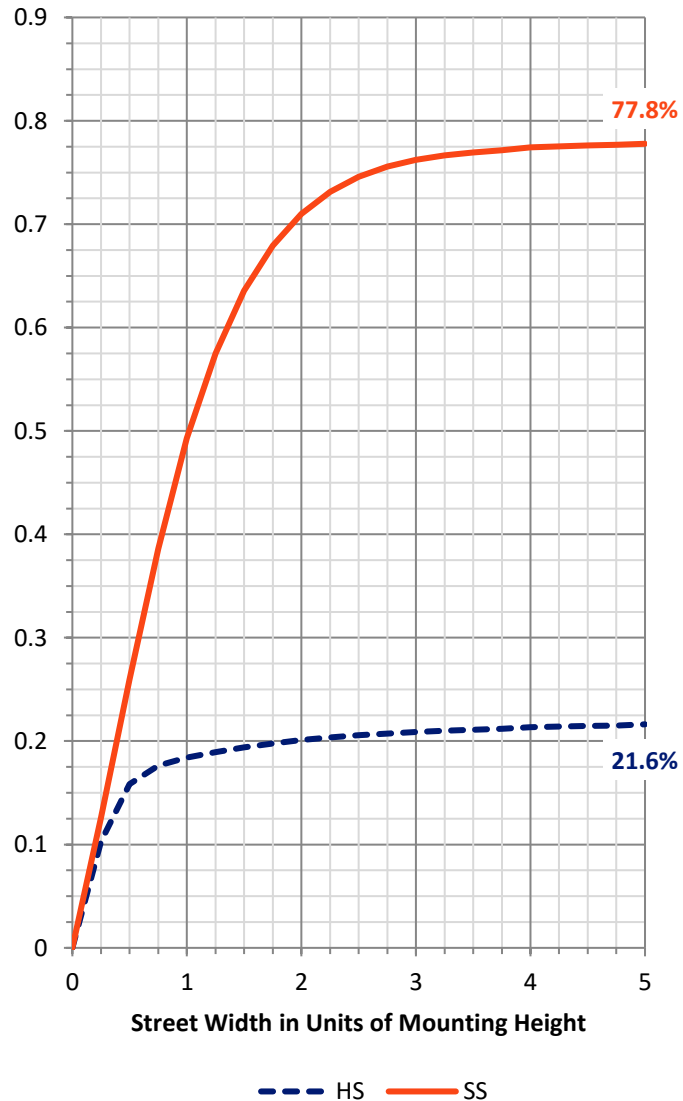
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20797.2	0.0	20797.2
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	73355.8	0.0	73355.8
	% Fixture	77.9	0.0	77.9
Total	Lumens	94153.0	0.0	94153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1449.0	1.5
10°-20°	4527.1	4.8
20°-30°	7837.1	8.3
30°-40°	11515.8	12.2
40°-50°	15565.0	16.5
50°-60°	19140.3	20.3
60°-70°	20510.1	21.8
70°-80°	12096.6	12.8
80°-90°	1512.0	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°	94153.0	100.0
0°-180°	94153.0	100.0

Coefficient of Utilization

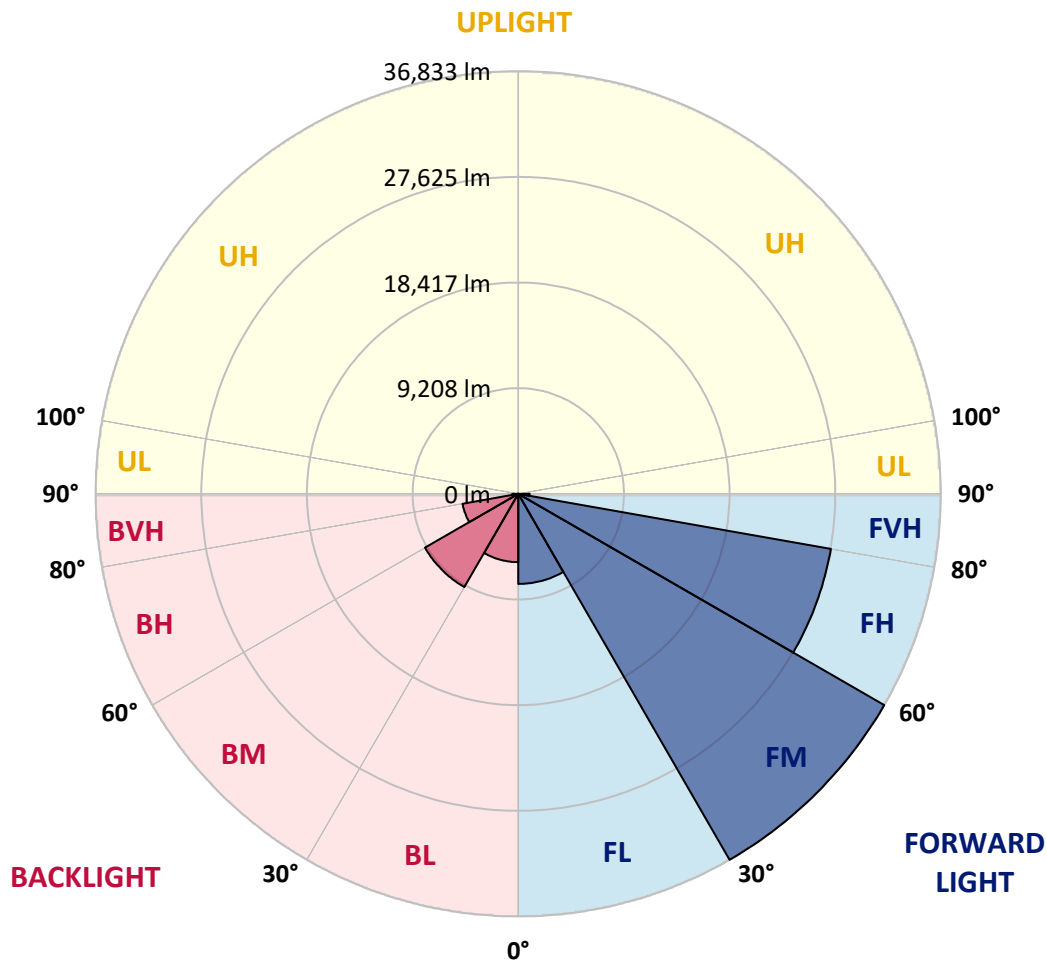


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7856.3	8.3			
FM (30°-60°)	36833.3	39.1			
FH (60°-80°)	27674.7	29.4			G5
FVH (80°-90°)	991.5	1.1			G5
BL (0°-30°)	5956.9	6.3	B5		
BM (30°-60°)	9387.8	10.0	B5		
BH (60°-80°)	4932.0	5.2	B4/5000		G4/5000
BVH (80°-90°)	520.5	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°	14543.1	14543.1	14543.1	14543.1	14543.1	14543.1	14543.1	14543.1	14543.1	14543.1	14543.1
2.5°	14268.6	14241.7	14230.2	14266.6	14293.5	14324.2	14368.4	14410.6	14416.4	14472.0	14545.0
5°	14441.3	14418.3	14393.3	14387.6	14378.0	14376.1	14387.6	14435.6	14447.1	14500.8	14658.2
7.5°	14825.3	14802.2	14756.1	14738.9	14687.0	14594.9	14550.7	14575.7	14581.5	14646.7	14842.5
10°	15451.1	15380.0	15324.4	15266.8	15103.6	14957.7	14850.2	14804.1	14794.5	14857.9	15084.4
12.5°	16197.8	16138.3	16076.8	15925.2	15717.9	15454.9	15264.8	15159.3	15151.6	15205.3	15376.2
15°	16986.8	16986.8	16944.5	16764.1	16560.6	16124.8	15831.1	15654.5	15666.0	15708.3	15787.0
17.5°	18006.1	17921.6	17902.4	17697.0	17470.5	17073.1	16606.7	16324.5	16337.9	16357.1	16297.6
20°	19042.7	19017.7	18988.9	18852.6	18647.2	18136.6	17612.5	17242.1	17244.0	17174.9	16910.0
22.5°	20413.3	20330.7	20351.9	20198.3	19919.9	19395.9	18793.1	18353.5	18382.3	18282.5	17802.6
25°	21774.3	21691.7	21647.6	21543.9	21304.0	20806.8	20090.8	19687.7	19653.1	19472.7	18775.8
27.5°	23133.4	23085.4	23121.9	22997.1	22801.3	22246.5	21590.0	21142.7	21165.8	21041.0	20002.5
30°	24540.5	24486.7	24646.0	24444.5	24323.6	23784.1	23154.5	22628.5	22647.7	22693.8	21528.6
32.5°	25602.0	25665.4	25943.7	25920.7	25897.6	25296.8	24634.5	24342.7	24371.5	24532.8	23340.7
35°	26627.1	26632.9	27024.5	27320.1	27444.9	26941.9	26254.7	26245.1	26433.2	26924.6	25866.9
37.5°	27477.5	27458.3	27980.4	28439.2	28780.9	28391.2	28013.1	28602.4	28773.2	29792.6	28410.4
40°	27942.0	27982.4	28654.2	29226.3	29898.1	29713.9	29754.2	31261.1	31681.5	32574.1	30312.8
42.5°	27615.7	27738.6	28784.8	29951.9	30965.5	31211.2	32021.2	34132.8	34311.4	34472.6	32184.4
45°	27068.6	27197.2	28356.7	30241.8	31846.6	32885.1	34276.8	36342.3	36538.1	36357.7	33741.2
47.5°	26498.5	26630.9	27922.8	30124.7	32576.0	34566.7	36282.8	38296.5	38546.0	37987.4	35238.5
50°	25774.8	25980.2	27393.0	29877.0	33167.3	36380.7	38181.3	40308.3	40423.4	39617.2	36373.0
52.5°	24884.1	25110.6	26638.6	29452.8	33629.9	37647.7	40102.9	42490.9	42479.4	41521.5	37670.7
55°	23947.3	24152.7	25726.8	28784.8	33889.0	38622.8	41638.6	44896.2	45034.4	44232.0	38845.5
57.5°	22747.5	22933.7	24649.9	27886.4	33620.3	39450.2	44126.4	47754.5	47823.6	46119.0	39780.4
60°	21158.1	21432.6	23156.4	26744.2	32848.6	40408.1	46867.6	50760.6	50845.1	47975.2	40381.2
62.5°	19413.2	19522.6	21279.0	24985.8	31725.6	41147.1	48768.0	53112.1	52989.3	49426.5	40561.6
65°	17286.2	17372.6	18892.9	22724.5	29639.0	40742.1	49449.5	54321.5	54169.9	50338.3	40006.9
67.5°	15059.4	15326.3	16520.3	19587.8	26726.9	38872.4	48873.6	54669.0	54592.2	50407.4	38682.3
70°	12168.5	12262.6	13341.4	15957.8	22300.3	35129.1	46954.0	53778.3	53718.8	48864.0	35977.6
72.5°	8580.7	8488.6	9012.6	11064.7	16107.6	27944.0	40089.4	48773.8	48873.6	43711.8	31330.2
75°	4555.3	4731.9	5547.7	6774.4	9131.7	17963.8	31961.7	40365.8	40331.3	36551.6	24765.1
77.5°	2426.4	2422.6	2983.1	3507.2	4470.8	8254.4	21081.3	30441.4	30610.3	28320.2	17004.0
80°	1165.2	1209.4	1243.9	1426.3	2228.7	3814.3	8818.8	17652.9	18804.6	16890.8	8077.8
82.5°	932.9	936.8	940.6	900.3	921.4	1553.0	3397.7	5108.1	5292.4	4253.9	2604.9
85°	691.1	648.8	643.1	545.2	616.2	932.9	1714.2	2180.7	2073.2	2017.5	1470.4
87.5°	278.3	261.1	253.4	238.0	238.0	351.3	604.7	789.0	787.0	717.9	493.3
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°	14543.1	14543.1	14543.1	14543.1	14543.1	14543.1	14543.1	14543.1	14543.1	14543.1	14543.1
2.5°	14602.6	14671.7	14832.9	14971.1	15023.0	15149.7	15268.7	15337.8	15385.8	15414.6	15545.1
5°	14754.2	14892.4	15149.7	15343.6	15531.7	15765.9	15917.5	16013.5	16067.3	16098.0	16192.0
7.5°	14986.5	15126.6	15399.2	15696.8	15869.5	16061.5	16159.4	16228.5	16263.1	16253.5	16328.3
10°	15193.8	15332.0	15604.6	15833.1	15931.0	16040.4	16092.2	16107.6	16109.5	16117.2	16192.0
12.5°	15476.0	15560.5	15706.4	15856.1	15835.0	15838.8	15883.0	15863.8	15819.6	15811.9	15861.9
15°	15779.3	15781.2	15792.7	15760.1	15627.7	15570.1	15508.6	15456.8	15335.9	15328.2	15406.9
17.5°	16159.4	16069.2	15859.9	15637.3	15322.4	15105.5	14886.7	14796.5	14648.6	14619.9	14658.2
20°	16648.9	16460.8	15952.1	15399.2	14809.9	14422.1	14157.2	13890.4	13685.0	13635.1	13671.6
22.5°	17351.5	16981.0	16069.2	15145.8	14234.0	13571.7	13057.3	12736.7	12391.2	12214.6	12231.8
25°	18200.0	17620.2	16272.7	14825.3	13556.4	12600.4	11765.4	11122.3	10732.6	10473.5	10542.6
27.5°	19311.4	18514.8	16516.4	14508.5	12713.7	11358.4	10147.1	9275.6	8878.3	8755.4	8674.8
30°	20599.5	19595.5	16773.7	14040.1	11803.8	9820.8	8269.7	7544.1	7089.2	7016.2	6954.8
32.5°	22323.3	20956.5	17255.5	13531.4	10717.3	8283.2	6599.7	5764.6	5661.0	5601.5	5588.0
35°	24546.2	22739.9	17760.4	12871.1	9300.6	6480.6	4992.9	4541.8	4491.9	4557.2	4562.9
37.5°	26905.4	24674.8	18365.0	12126.3	7670.8	4835.5	3820.1	3507.2	3562.8	3766.3	3812.4
40°	28502.6	25949.5	18914.1	11114.6	5657.1	3512.9	2779.6	2712.4	3019.6	3280.6	3334.4
42.5°	30034.4	26915.0	19136.7	9776.6	4035.0	2501.3	2244.0	2474.4	2904.4	3190.4	3228.8
45°	31341.7	28038.0	18576.2	8171.8	2735.5	2090.5	2150.0	2468.6	2946.6	3263.4	3292.2
47.5°	32585.6	28955.6	17810.3	6438.4	2157.7	2011.8	2148.1	2520.5	3040.7	3340.1	3357.4
50°	33773.9	29654.3	16503.0	4898.9	2021.4	1975.3	2165.3	2601.1	3092.5	3280.6	3273.0
52.5°	34655.0	30015.2	15111.3	3954.4	1967.6	1946.5	2211.4	2702.8	3102.1	3215.4	3207.7
55°	35301.9	29946.1	14197.5	3238.4	1923.5	1935.0	2286.3	2779.6	3194.3	3365.1	3359.3
57.5°	35361.4	29633.2	13159.0	2735.5	1869.7	1933.1	2366.9	2887.1	3655.0	3969.8	3873.8
60°	35290.4	29114.9	12122.4	2401.4	1810.2	1944.6	2451.4	3209.6	4319.2	4566.8	4499.6
62.5°	34941.0	28149.4	10569.4	2180.7	1758.4	1986.8	2514.7	3464.9	4286.5	4315.3	4219.3
65°	33862.2	26857.5	8530.8	1958.0	1706.5	2015.6	2566.5	3532.1	3937.1	3845.0	3797.0
67.5°	31727.5	23972.3	6580.5	1754.5	1639.4	2009.8	2720.1	3436.1	3804.7	3737.5	3676.1
70°	28694.5	20693.5	4568.7	1545.3	1526.1	1973.4	2681.7	3468.8	3741.3	3637.7	3555.1
72.5°	23972.3	16234.3	2906.3	1374.5	1357.2	1887.0	2585.7	3447.6	3699.1	3653.0	3539.8
75°	18050.2	11331.5	1846.7	1188.2	1207.4	1729.6	2432.2	3334.4	3678.0	3534.0	3317.1
77.5°	11364.2	5593.8	1435.9	1009.7	1038.5	1491.5	2102.0	2912.1	3530.2	3443.8	3165.5
80°	4298.0	2270.9	1123.0	819.7	844.6	1159.5	1723.8	2395.7	3249.9	3392.0	3273.0
82.5°	1979.1	1420.5	842.7	658.4	668.0	844.6	1286.1	1773.7	2750.8	3113.6	3411.2
85°	1155.6	931.0	562.4	439.6	456.9	499.1	723.7	1082.7	1783.3	2374.6	2656.8
87.5°	393.5	324.4	218.8	186.2	180.4	205.4	174.7	355.1	529.8	932.9	1065.4
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)