

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: P510569

Luminaire Tested: **CST-CA10-630-760-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510569
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-CA10-630-760-U-T3
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 92157 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

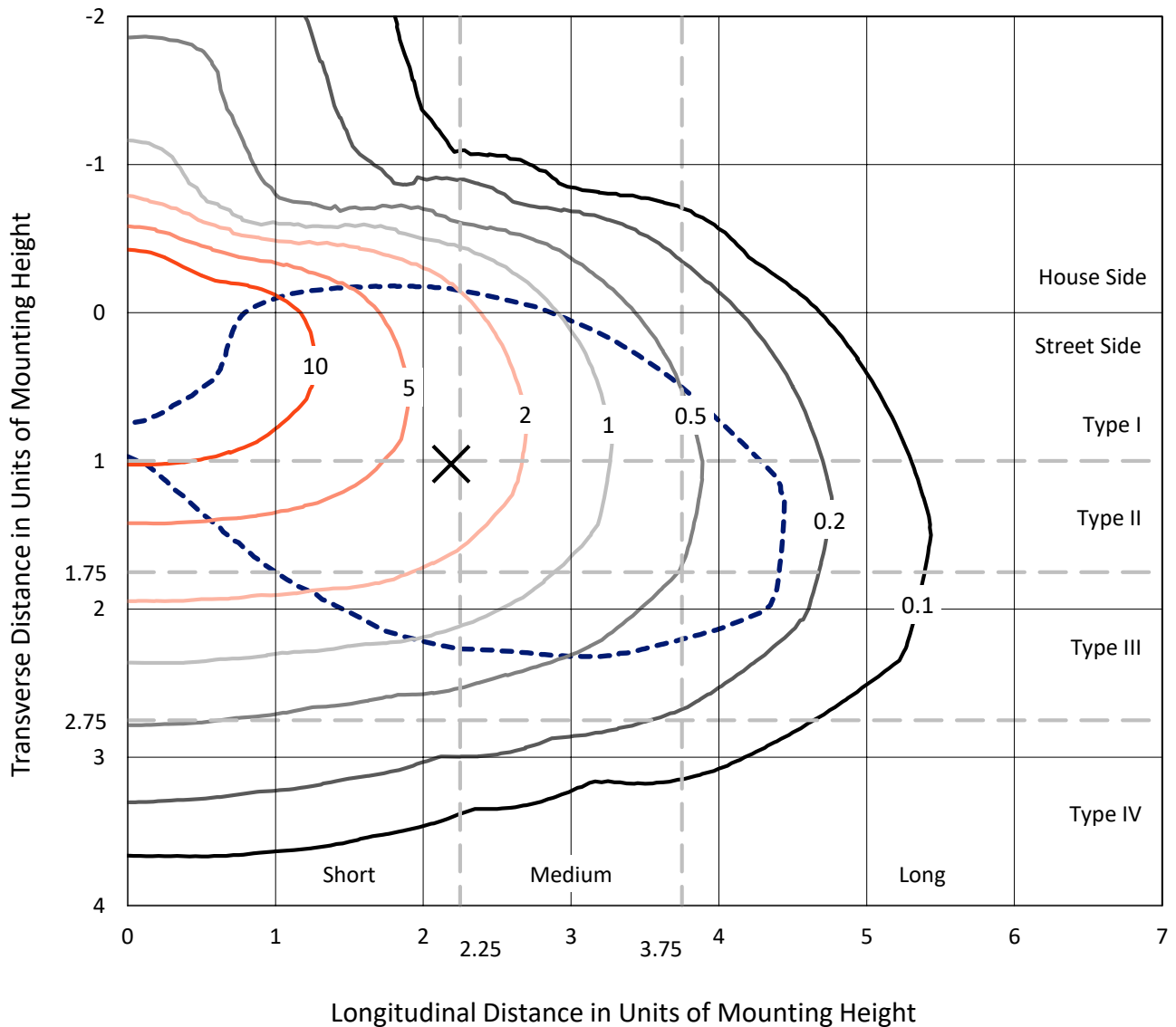
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

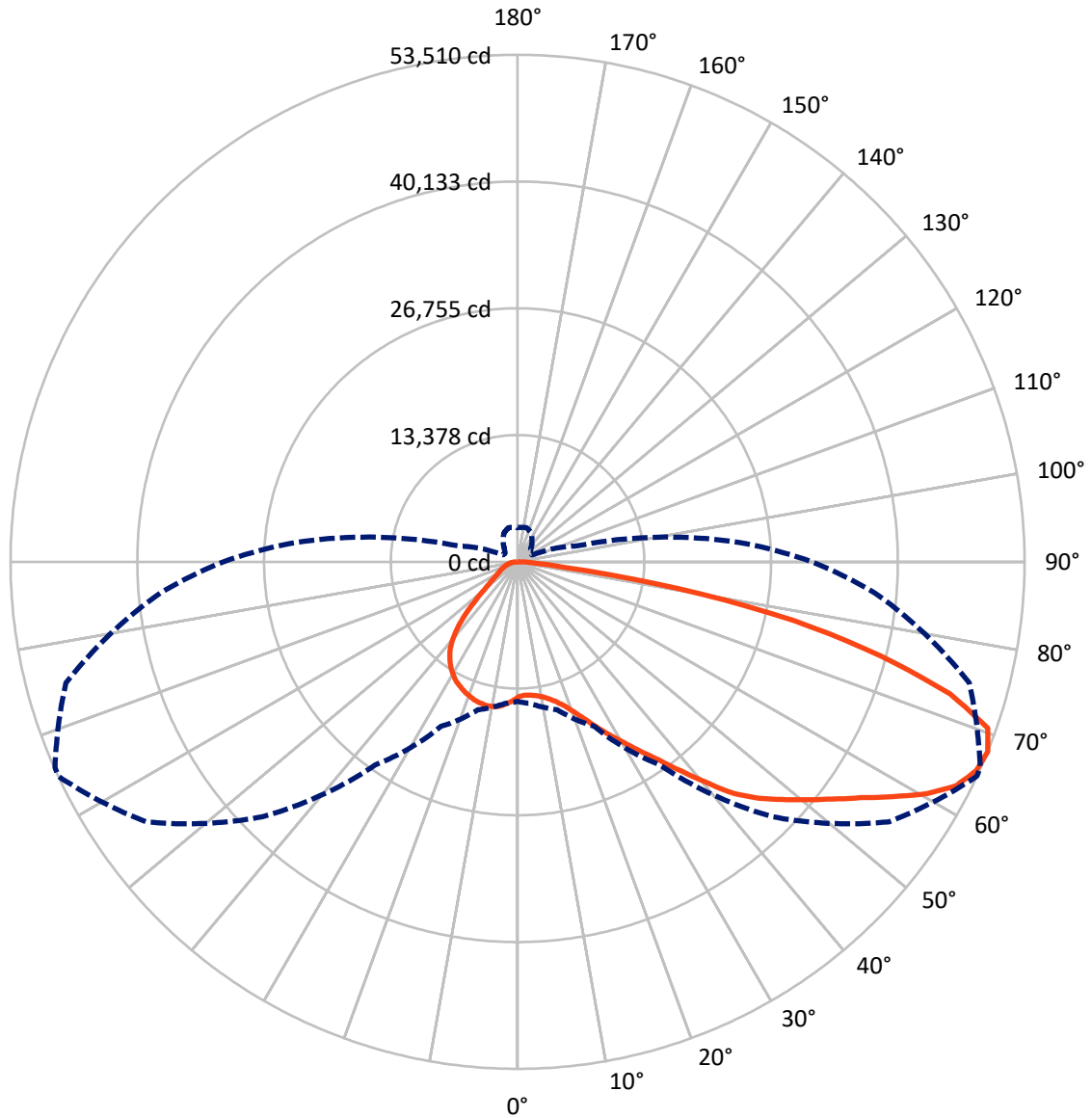
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.6 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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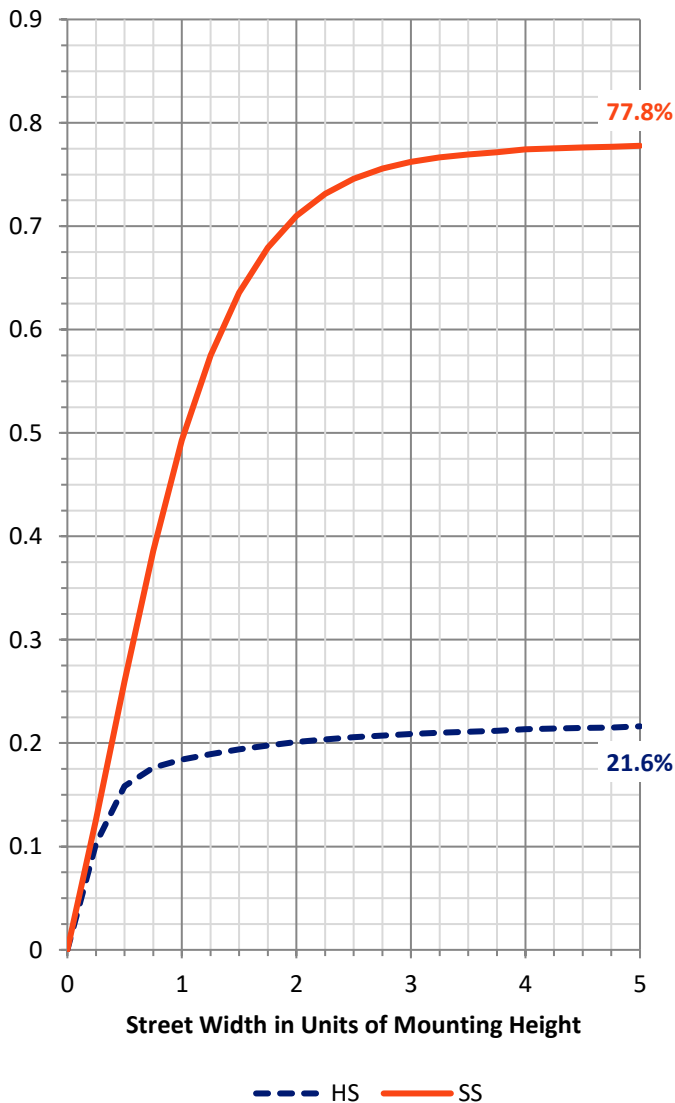
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20356.3	0.0	20356.3
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	71800.7	0.0	71800.7
	% Fixture	77.9	0.0	77.9
Total	Lumens	92157.0	0.0	92157.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1418.3	1.5
10°-20°	4431.2	4.8
20°-30°	7670.9	8.3
30°-40°	11271.6	12.2
40°-50°	15235.0	16.5
50°-60°	18734.5	20.3
60°-70°	20075.3	21.8
70°-80°	11840.2	12.8
80°-90°	1480.0	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°	92157.0	100.0
0°-180°	92157.0	100.0

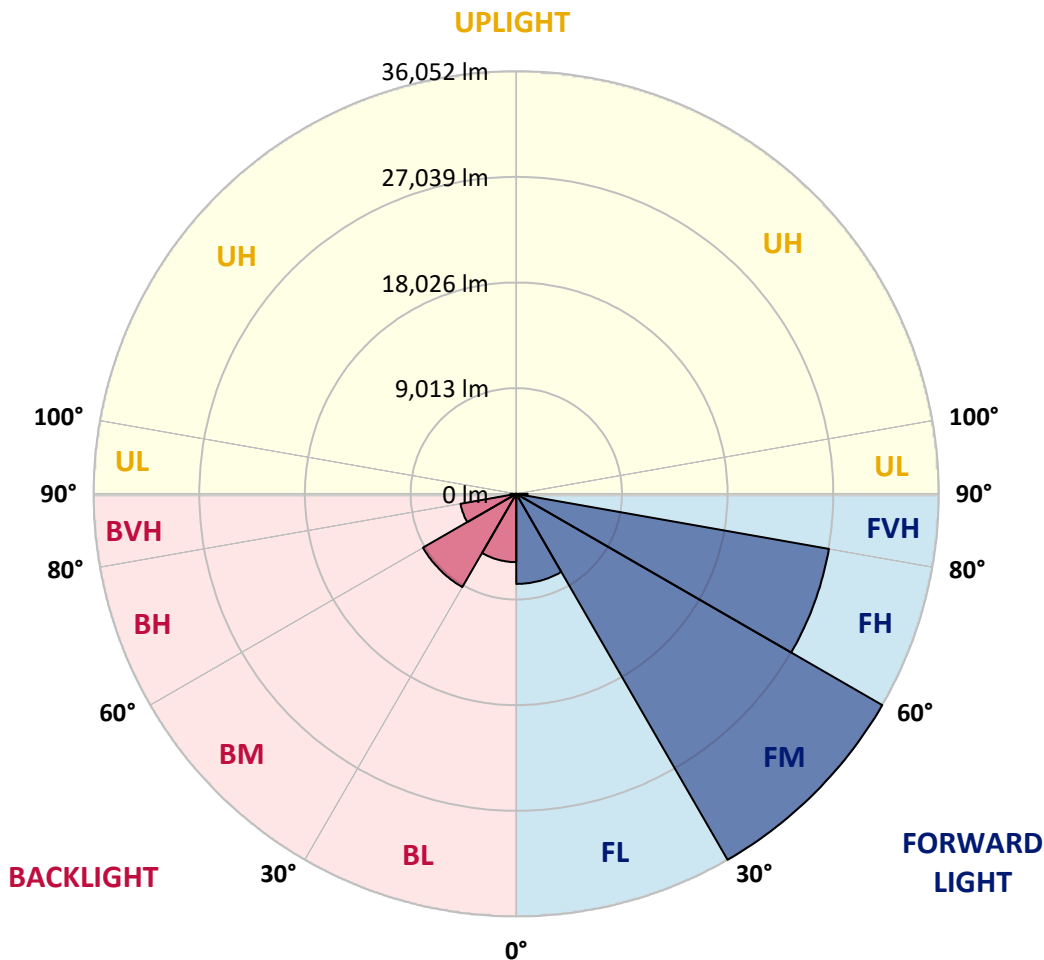


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7689.8	8.3			
FM (30°-60°)	36052.4	39.1			
FH (60°-80°)	27088.0	29.4			G5
FVH (80°-90°)	970.5	1.1			G5
BL (0°-30°)	5830.6	6.3	B5		
BM (30°-60°)	9188.8	10.0	B5		
BH (60°-80°)	4827.4	5.2	B4/5000		G4/5000
BVH (80°-90°)	509.5	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°	14234.8	14234.8	14234.8	14234.8	14234.8	14234.8	14234.8	14234.8	14234.8	14234.8	14234.8
2.5°	13966.1	13939.8	13928.5	13964.2	13990.5	14020.6	14063.8	14105.1	14110.8	14165.2	14236.6
5°	14135.2	14112.6	14088.2	14082.6	14073.2	14071.3	14082.6	14129.5	14140.8	14193.4	14347.5
7.5°	14511.0	14488.4	14443.3	14426.4	14375.7	14285.5	14242.3	14266.7	14272.3	14336.2	14527.9
10°	15123.5	15054.0	14999.5	14943.1	14783.4	14640.6	14535.4	14490.3	14480.9	14542.9	14764.6
12.5°	15854.4	15796.2	15736.0	15587.6	15384.7	15127.3	14941.2	14837.9	14830.4	14883.0	15050.2
15°	16626.6	16626.6	16585.3	16408.7	16209.5	15783.0	15495.5	15322.7	15333.9	15375.3	15452.3
17.5°	17624.4	17541.7	17522.9	17321.8	17100.1	16711.2	16254.6	15978.4	15991.6	16010.4	15952.1
20°	18639.0	18614.5	18586.4	18453.0	18251.9	17752.1	17239.2	16876.5	16878.4	16810.8	16551.5
22.5°	19980.5	19899.7	19920.4	19770.1	19497.6	18984.7	18394.7	17964.4	17992.6	17894.9	17425.2
25°	21312.7	21231.9	21188.7	21087.2	20852.3	20365.7	19664.9	19270.3	19236.5	19059.9	18377.8
27.5°	22643.0	22596.0	22631.7	22509.6	22317.9	21774.9	21132.3	20694.5	20717.1	20594.9	19578.4
30°	24020.2	23967.6	24123.6	23926.3	23807.9	23279.9	22663.6	22148.8	22167.6	22212.7	21072.2
32.5°	25059.3	25121.3	25393.7	25371.2	25348.6	24760.5	24112.3	23826.7	23854.9	24012.7	22845.9
35°	26062.6	26068.3	26451.6	26740.9	26863.0	26370.8	25698.1	25688.7	25872.8	26353.9	25318.6
37.5°	26895.0	26876.2	27387.3	27836.3	28170.8	27789.4	27419.2	27996.0	28163.3	29161.0	27808.1
40°	27349.7	27389.1	28046.8	28606.7	29264.3	29083.9	29123.4	30598.4	31009.8	31883.5	29670.2
42.5°	27030.3	27150.5	28174.5	29316.9	30309.0	30549.5	31342.4	33409.2	33584.0	33741.8	31502.1
45°	26494.8	26620.7	27755.5	29600.6	31171.4	32187.9	33550.1	35571.9	35763.5	35586.9	33025.9
47.5°	25936.7	26066.4	27330.9	29486.0	31885.4	33833.9	35513.6	37484.6	37728.9	37182.1	34491.5
50°	25228.4	25429.4	26812.3	29243.6	32464.1	35609.5	37371.9	39453.7	39566.5	38777.3	35601.9
52.5°	24356.6	24578.3	26073.9	28828.4	32916.9	36849.5	39252.7	41590.1	41578.8	40641.2	36872.1
55°	23439.6	23640.7	25181.4	28174.5	33170.6	37804.0	40755.8	43944.4	44079.7	43294.3	38022.0
57.5°	22265.3	22447.6	24127.3	27295.2	32907.6	38613.9	43190.9	46742.1	46809.7	45141.3	38937.0
60°	20709.6	20978.2	22665.5	26177.2	32152.2	39551.4	45874.0	49684.5	49767.2	46958.2	39525.1
62.5°	19001.6	19108.7	20827.9	24456.1	31053.1	40274.8	47734.2	51986.2	51865.9	48378.7	39701.8
65°	16919.8	17004.3	18492.4	22242.8	29010.7	39878.4	48401.2	53169.9	53021.5	49271.1	39158.8
67.5°	14740.2	15001.4	16170.1	19172.6	26160.3	38048.3	47837.5	53510.0	53434.8	49338.8	37862.3
70°	11910.5	12002.6	13058.6	15619.5	21827.5	34384.4	45958.6	52638.2	52579.9	47828.1	35214.9
72.5°	8398.8	8308.6	8821.6	10830.1	15766.1	27351.6	39239.5	47739.8	47837.5	42785.1	30666.0
75°	4458.7	4631.6	5430.1	6630.7	8938.1	17583.0	31284.2	39510.1	39476.3	35776.7	24240.1
77.5°	2375.0	2371.2	2919.9	3432.8	4376.0	8079.4	20634.4	29796.0	29961.4	27719.8	16643.5
80°	1140.5	1183.7	1217.5	1396.0	2181.4	3733.4	8631.8	17278.6	18406.0	16532.7	7906.5
82.5°	913.2	916.9	920.7	881.2	901.9	1520.1	3325.7	4999.8	5180.2	4163.7	2549.7
85°	676.4	635.1	629.4	533.6	603.1	913.2	1677.9	2134.5	2029.2	1974.8	1439.3
87.5°	272.4	255.5	248.0	233.0	233.0	343.8	591.9	772.2	770.4	702.7	482.9
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°	14234.8	14234.8	14234.8	14234.8	14234.8	14234.8	14234.8	14234.8	14234.8	14234.8	14234.8
2.5°	14293.0	14360.7	14518.5	14653.8	14704.5	14828.5	14945.0	15012.6	15059.6	15087.8	15215.6
5°	14441.4	14576.7	14828.5	15018.3	15202.4	15431.6	15580.1	15674.0	15726.6	15756.7	15848.8
7.5°	14668.8	14806.0	15072.8	15364.0	15533.1	15721.0	15816.8	15884.5	15918.3	15908.9	15982.2
10°	14871.7	15007.0	15273.8	15497.4	15593.2	15700.3	15751.1	15766.1	15768.0	15775.5	15848.8
12.5°	15147.9	15230.6	15373.4	15520.0	15499.3	15503.0	15546.3	15527.5	15484.3	15476.7	15525.6
15°	15444.8	15446.7	15457.9	15426.0	15296.4	15240.0	15179.9	15129.1	15010.8	15003.2	15080.3
17.5°	15816.8	15728.5	15523.7	15305.8	14997.6	14785.3	14571.1	14482.8	14338.1	14309.9	14347.5
20°	16295.9	16111.8	15613.9	15072.8	14495.9	14116.4	13857.1	13595.9	13394.9	13346.0	13381.7
22.5°	16983.6	16621.0	15728.5	14824.7	13932.3	13284.0	12780.5	12466.7	12128.5	11955.6	11972.5
25°	17814.1	17246.7	15927.7	14511.0	13269.0	12333.3	11516.0	10886.5	10505.1	10251.4	10319.1
27.5°	18902.0	18122.3	16166.3	14200.9	12444.1	11117.6	9932.0	9079.0	8690.0	8569.8	8490.9
30°	20162.8	19180.1	16418.1	13742.5	11553.5	9612.6	8094.4	7384.2	6938.9	6867.5	6807.4
32.5°	21850.1	20512.3	16889.7	13244.6	10490.1	8107.6	6459.8	5642.4	5541.0	5482.7	5469.6
35°	24025.9	22257.8	17383.8	12598.2	9103.4	6343.3	4887.1	4445.5	4396.7	4460.6	4466.2
37.5°	26335.1	24151.7	17975.7	11869.2	7508.2	4733.0	3739.1	3432.8	3487.3	3686.5	3731.6
40°	27898.3	25399.4	18513.1	10879.0	5537.2	3438.4	2720.7	2654.9	2955.6	3211.1	3263.7
42.5°	29397.7	26344.5	18731.0	9569.4	3949.5	2448.2	2196.5	2421.9	2842.8	3122.8	3160.4
45°	30677.3	27443.6	18182.4	7998.6	2677.5	2046.2	2104.4	2416.3	2884.2	3194.2	3222.4
47.5°	31894.8	28341.8	17432.7	6301.9	2111.9	1969.1	2102.5	2467.0	2976.2	3269.3	3286.2
50°	33057.9	29025.7	16153.1	4795.0	1978.5	1933.4	2119.4	2545.9	3027.0	3211.1	3203.6
52.5°	33920.3	29378.9	14790.9	3870.6	1925.9	1905.2	2164.5	2645.5	3036.3	3147.2	3139.7
55°	34553.5	29311.3	13896.6	3169.8	1882.7	1894.0	2237.8	2720.7	3126.5	3293.8	3288.1
57.5°	34611.7	29005.0	12880.1	2677.5	1830.1	1892.1	2316.7	2825.9	3577.5	3885.6	3791.7
60°	34542.2	28497.7	11865.4	2350.5	1771.8	1903.4	2399.4	3141.6	4227.6	4470.0	4404.2
62.5°	34200.3	27552.6	10345.4	2134.5	1721.1	1944.7	2461.4	3391.5	4195.6	4223.8	4129.9
65°	33144.3	26288.1	8350.0	1916.5	1670.4	1972.9	2512.1	3457.2	3853.7	3763.5	3716.5
67.5°	31054.9	23464.1	6441.0	1717.3	1604.6	1967.2	2662.4	3363.3	3724.0	3658.3	3598.1
70°	28086.2	20254.9	4471.9	1512.5	1493.7	1931.5	2624.9	3395.2	3662.0	3560.6	3479.8
72.5°	23464.1	15890.1	2844.7	1345.3	1328.4	1847.0	2530.9	3374.6	3620.7	3575.6	3464.7
75°	17667.6	11091.3	1807.5	1163.1	1181.8	1692.9	2380.6	3263.7	3600.0	3459.1	3246.8
77.5°	11123.3	5475.2	1405.4	988.3	1016.5	1459.9	2057.4	2850.3	3455.3	3370.8	3098.4
80°	4206.9	2222.8	1099.2	802.3	826.7	1134.9	1687.3	2344.9	3181.0	3320.1	3203.6
82.5°	1937.2	1390.4	824.8	644.5	653.9	826.7	1258.9	1736.1	2692.5	3047.6	3338.9
85°	1131.1	911.3	550.5	430.3	447.2	488.5	708.4	1059.7	1745.5	2324.2	2600.4
87.5°	385.2	317.5	214.2	182.3	176.6	201.0	171.0	347.6	518.6	913.2	1042.8
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)