

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: P510597

Luminaire Tested: **CST-CA10-760-730-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-10)
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-T2
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: 103831 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

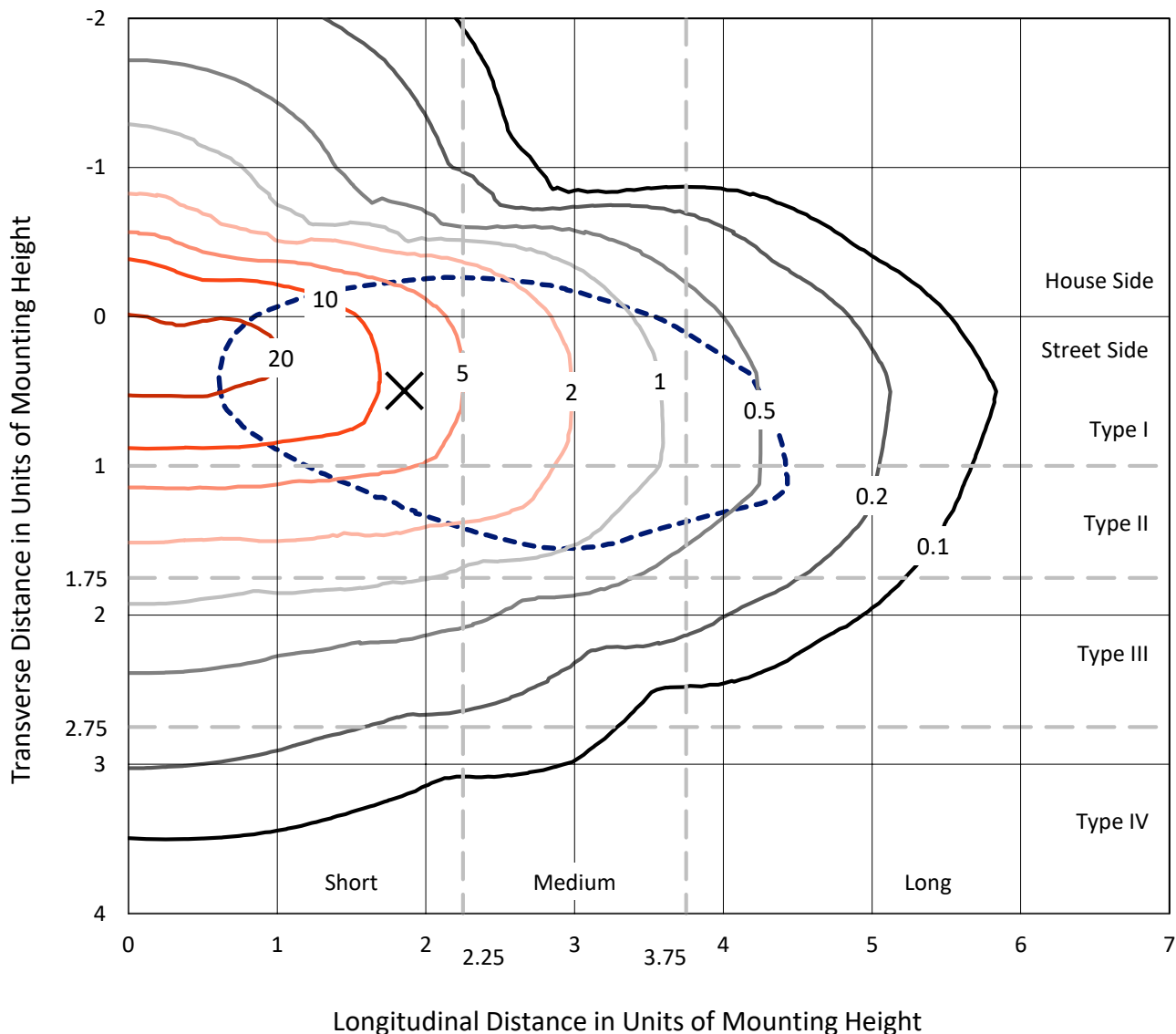
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

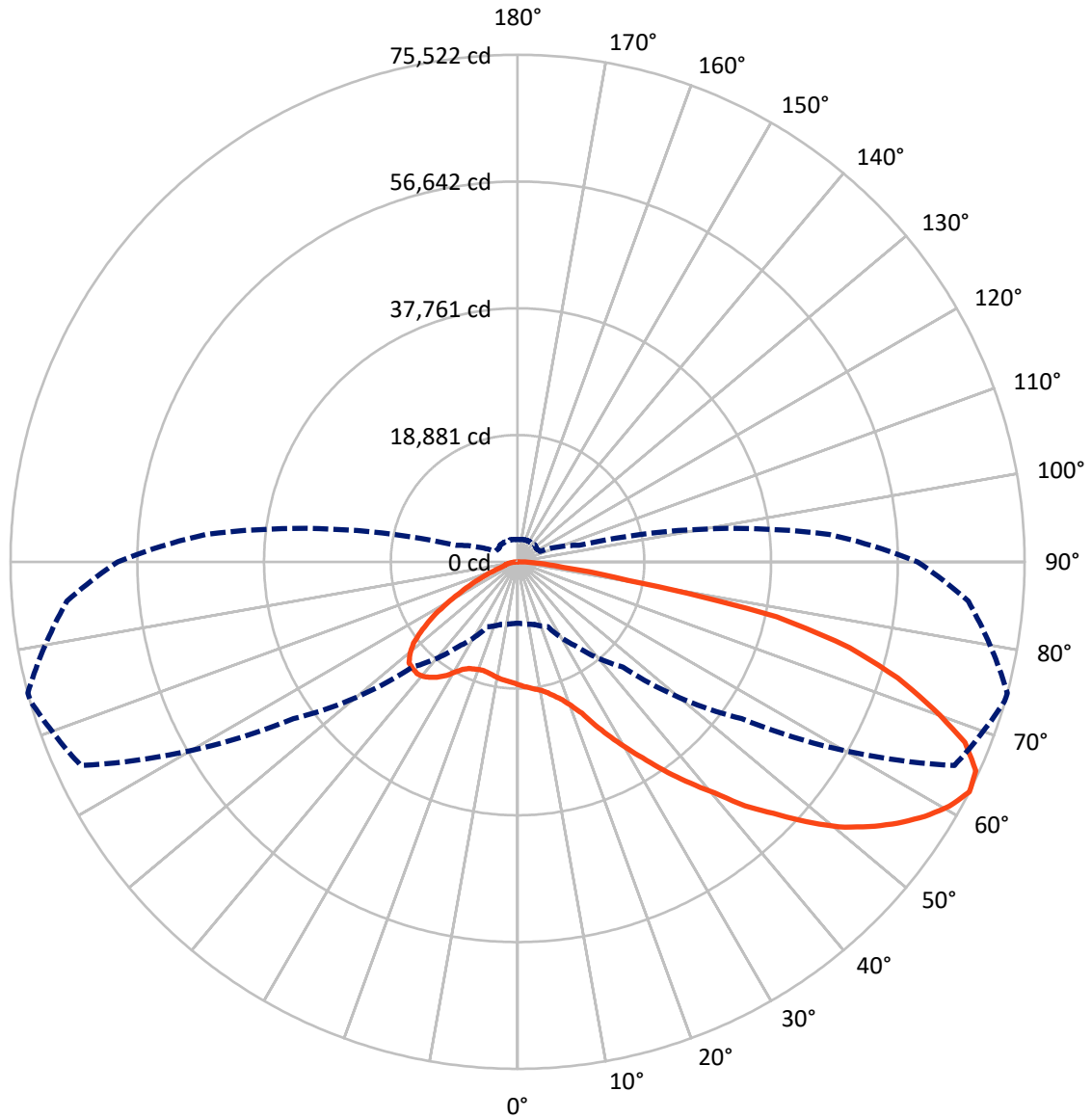
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 23.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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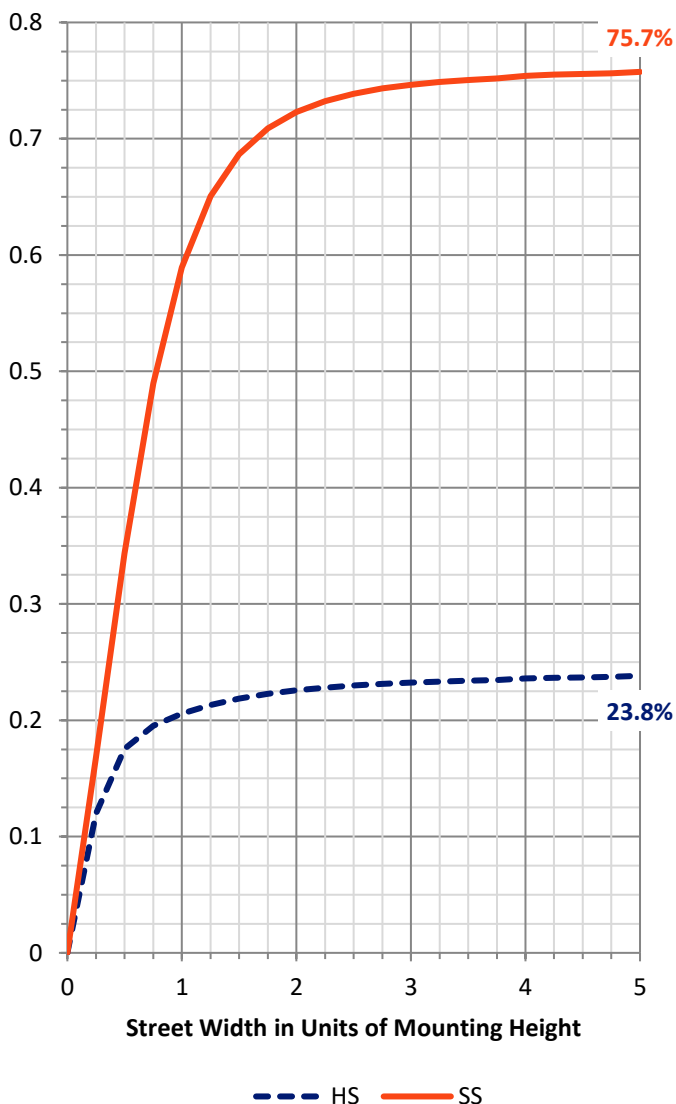
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25156.4	0.0	25156.4
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	78674.6	0.0	78674.6
	% Fixture	75.8	0.0	75.8
Total	Lumens	103831.0	0.0	103831.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1760.8	1.7
10°-20°	5343.9	5.1
20°-30°	9217.0	8.9
30°-40°	13590.6	13.1
40°-50°	17915.3	17.3
50°-60°	21084.7	20.3
60°-70°	20977.2	20.2
70°-80°	12233.3	11.8
80°-90°	1708.1	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°	103831.0	100.0
0°-180°	103831.0	100.0

Coefficient of Utilization

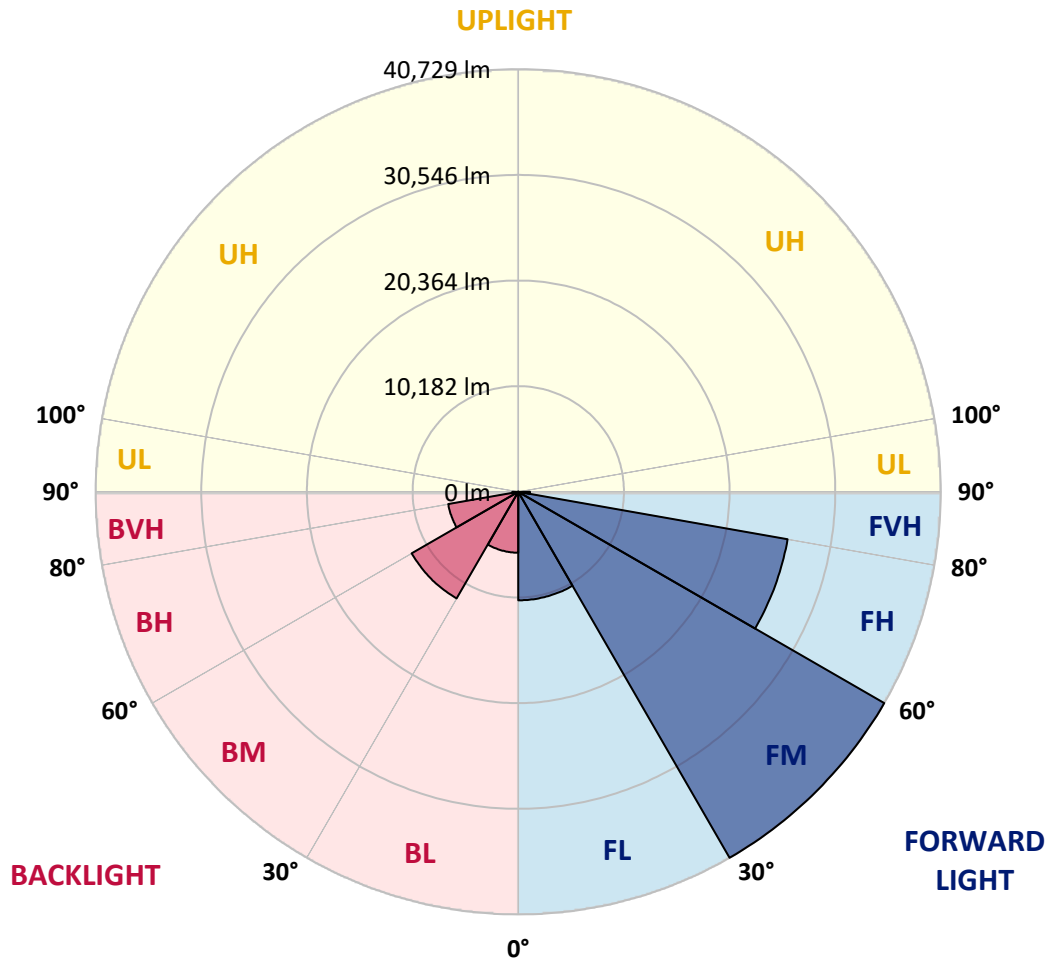


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10455.3	10.1			
FM (30°-60°)	40728.7	39.2			
FH (60°-80°)	26357.1	25.4			G5
FVH (80°-90°)	1133.5	1.1			G5
BL (0°-30°)	5866.3	5.6	B5		
BM (30°-60°)	11862.0	11.4	B5		
BH (60°-80°)	6853.5	6.6	B5		G5
BVH (80°-90°)	574.6	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	18303.0	18303.0	18303.0	18303.0	18303.0	18303.0	18303.0	18303.0	18303.0	18303.0	18303.0
2.5°	19305.3	19226.2	19236.9	19181.3	19098.0	19036.0	18873.6	18698.4	18593.7	18585.1	18435.5
5°	20275.4	20301.1	20307.5	20130.1	19954.9	19756.2	19508.3	19170.6	18895.0	18852.2	18561.6
7.5°	21160.1	21158.0	21145.2	21046.9	20965.7	20670.8	20175.0	19645.0	19196.3	19155.7	18683.4
10°	22066.2	22059.8	21931.6	21767.0	21583.3	21311.9	20886.6	20251.9	19525.4	19471.9	18796.7
12.5°	23053.5	22983.0	22901.8	22703.0	22485.1	22014.9	21568.3	20878.1	20119.4	20023.3	18997.5
15°	23867.7	23795.0	23681.8	23547.1	23318.5	22959.5	22485.1	21666.6	20852.4	20758.4	19448.4
17.5°	24673.3	24639.1	24557.9	24414.7	24239.5	23929.6	23493.7	22799.2	21732.8	21617.5	20198.5
20°	25333.6	25252.4	25192.6	25258.8	25273.8	25045.1	24805.8	24222.4	23047.1	22869.7	21119.5
22.5°	25709.7	25692.6	26019.6	26263.2	26361.5	26412.8	26338.0	25867.9	24803.7	24493.8	22401.7
25°	26066.6	26038.8	26483.3	27092.3	27671.5	27966.4	28165.1	28227.1	27250.5	26970.5	24463.9
27.5°	26077.3	26154.2	26799.6	27821.0	28703.6	29603.3	30556.3	30665.3	29808.4	29586.2	26810.3
30°	26135.0	26169.2	26808.1	27981.3	29819.1	31261.5	32503.1	33116.4	32377.0	32274.5	29393.8
32.5°	25402.0	25446.9	26440.6	28261.3	30661.1	32977.5	34625.1	35535.5	35351.7	35221.3	32150.5
35°	24639.1	24677.6	25831.5	27863.8	31287.2	34535.4	36542.0	38330.6	38666.1	38567.8	35225.6
37.5°	23442.4	23570.6	24780.1	27389.4	31396.2	35680.8	38371.2	41115.0	42128.0	41833.1	38478.0
40°	22143.1	22237.2	23645.4	26395.7	31274.4	36433.0	40168.4	44196.5	45423.2	45265.0	41707.0
42.5°	20502.0	20754.1	22164.5	25126.3	30648.2	36901.0	41830.9	47690.5	49472.7	49684.2	44673.1
45°	19119.4	19112.9	20422.9	23288.6	29513.5	37012.1	43361.0	51222.9	53829.9	53432.5	48594.4
47.5°	17493.1	17559.4	18927.0	21459.3	27840.3	36659.5	44553.4	55398.5	58037.6	57821.8	51810.5
50°	13729.9	14206.5	16796.5	19886.5	25577.2	35676.5	45547.1	59465.1	61984.6	62082.9	54733.9
52.5°	11836.6	12020.4	13450.0	18303.0	23568.5	34026.8	46636.9	64040.3	65799.0	65549.0	58052.6
55°	11078.0	11176.3	11862.2	15458.7	21626.0	31473.1	47160.5	68218.1	68773.7	68733.1	60783.6
57.5°	10528.8	10603.6	11090.8	12900.8	19493.3	28195.0	46718.1	70936.3	71799.6	71534.6	63360.8
60°	9736.0	9795.8	10522.4	11625.0	17298.7	24884.9	43997.8	72169.3	73994.3	73896.0	65638.8
62.5°	9139.8	9242.3	9648.4	10682.6	15424.6	22158.1	40756.0	71784.6	75434.6	75522.2	67378.2
65°	8509.4	8601.3	8945.3	9849.2	13725.7	20365.2	37260.0	69857.1	74772.1	75005.0	67660.3
67.5°	7731.5	7802.0	8210.2	8992.3	11740.4	18572.3	33317.3	66448.7	71096.5	71846.6	64852.4
70°	6752.8	6778.4	7278.5	7810.6	9748.8	15869.0	26491.9	60869.1	65777.7	65792.6	59550.6
72.5°	5374.4	5395.8	5528.3	5932.2	7323.4	12558.9	19471.9	50859.6	59311.2	59202.2	52926.0
75°	3654.2	3842.2	4301.7	4686.3	5282.6	8819.2	12110.1	34266.1	50250.5	51105.3	43474.2
77.5°	2887.0	2904.1	3094.3	3446.9	3961.9	6588.2	6787.0	18959.1	37463.0	39495.2	34172.1
80°	2013.0	2042.9	1940.4	2025.8	2763.1	4509.0	3966.2	8250.8	15623.3	16681.1	20516.9
82.5°	959.5	993.7	1141.1	1059.9	1374.1	1916.9	2094.2	4263.2	6748.5	6925.9	7987.9
85°	632.5	632.5	634.7	600.5	801.4	835.6	950.9	1818.6	3295.2	3406.3	3387.1
87.5°	203.0	224.4	218.0	254.3	307.7	277.8	290.6	570.6	1130.5	1119.8	936.0
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°	18303.0	18303.0	18303.0	18303.0	18303.0	18303.0	18303.0	18303.0	18303.0	18303.0	18303.0
2.5°	18328.7	18241.1	18035.9	17856.4	17679.0	17544.4	17429.0	17275.2	17202.5	17136.3	17275.2
5°	18382.1	18226.1	17858.5	17491.0	17153.4	16905.5	16753.7	16642.6	16542.2	16542.2	16589.2
7.5°	18444.1	18232.5	17706.8	17185.4	16678.9	16396.9	16181.0	16040.0	15958.8	15963.1	16063.5
10°	18484.7	18159.9	17533.7	16830.7	16279.3	15826.3	15614.7	15411.7	15257.9	15166.0	15268.6
12.5°	18531.7	18136.4	17300.8	16508.0	15837.0	15324.1	14883.9	14732.2	14582.6	14467.2	14522.8
15°	18822.3	18226.1	17106.3	16097.7	15319.8	14680.9	14103.9	13826.1	13783.4	13704.3	13723.5
17.5°	19296.7	18467.6	16980.3	15595.5	14698.0	13943.6	13212.8	12853.8	12768.3	12727.7	12749.1
20°	20004.1	18927.0	17018.7	15242.9	13997.1	13153.0	12208.4	11787.5	11503.2	11520.3	11603.7
22.5°	21085.4	19668.5	17228.1	14856.1	13238.4	12131.5	11178.4	10605.7	10319.4	10257.4	10351.4
25°	22807.7	20863.1	17458.9	14486.4	12505.5	11028.8	9973.2	9353.5	8985.9	8962.4	9067.1
27.5°	25015.2	22694.5	17961.1	14165.9	11595.1	9703.9	8654.7	8124.7	7733.6	7686.6	7652.4
30°	27274.0	24728.9	18869.3	13678.7	10533.1	8336.3	7423.8	7009.2	6571.1	6393.8	6432.2
32.5°	29667.4	26624.3	19933.5	13336.7	9344.9	7133.2	6340.4	5945.0	5543.3	5286.8	5227.0
35°	32077.9	28509.1	20828.9	12826.0	8218.7	6177.9	5419.3	5011.2	4660.7	4451.3	4436.3
37.5°	34898.6	30470.9	21546.9	12283.2	7049.8	5430.0	4517.5	4282.5	4113.6	3929.9	3949.1
40°	37723.7	32757.4	22121.8	11385.7	6079.6	4626.5	3844.4	3891.4	3927.7	3773.9	3761.0
42.5°	40070.1	34678.5	22384.6	10223.2	5220.6	3927.7	3547.3	3761.0	3919.2	3818.7	3805.9
45°	42452.8	36296.2	22282.0	8780.8	4506.8	3594.4	3523.8	3741.8	3944.8	3921.3	3910.6
47.5°	45042.8	38416.1	22104.7	7137.4	3996.1	3562.3	3575.1	3677.7	3934.1	3976.9	3959.8
50°	48209.7	40367.1	21055.4	5558.2	3748.2	3613.6	3690.5	3637.1	3855.1	3942.7	3957.6
52.5°	51361.8	41869.4	19651.5	4816.7	3649.9	3662.7	3850.8	3669.2	3765.3	3842.2	3912.8
55°	53793.6	43399.5	17379.9	4370.1	3617.9	3686.3	3895.7	3737.5	3735.4	3735.4	3758.9
57.5°	56283.2	45448.8	15108.3	4081.6	3562.3	3711.9	3842.2	3750.4	3720.4	3677.7	3649.9
60°	58016.2	46207.4	12189.2	3891.4	3504.6	3675.6	3692.7	3679.8	3588.0	3547.3	3515.3
62.5°	59554.8	46619.8	9490.2	3673.4	3425.5	3590.1	3500.3	3472.6	3419.1	3320.8	3337.9
65°	59142.4	45735.1	7231.5	3427.7	3370.0	3487.5	3331.5	3265.3	3269.5	3167.0	3201.2
67.5°	56488.3	41766.8	5192.8	3051.6	3218.3	3284.5	3139.2	3090.0	3017.4	2966.1	3013.1
70°	51126.7	37024.9	3502.5	2532.3	2872.1	3015.2	2919.1	2833.6	2720.3	2686.2	2737.4
72.5°	43031.9	30906.8	2416.9	2036.5	2478.9	2664.8	2628.5	2540.8	2459.6	2543.0	2643.4
75°	35351.7	22865.4	1972.4	1669.0	1906.2	2220.3	2327.1	2352.8	2596.4	3408.4	3491.8
77.5°	25446.9	14174.4	1773.7	1357.0	1521.5	1775.8	1989.5	2077.1	3171.2	3036.6	3030.2
80°	14836.9	8261.5	1352.7	1070.6	1230.9	1301.4	1555.7	2438.3	2735.3	2346.4	2288.7
82.5°	6769.9	3645.6	942.4	856.9	854.8	861.2	1059.9	2346.4	2098.5	1848.5	1780.1
85°	2489.6	1282.2	572.7	495.8	568.4	493.6	694.5	1720.3	1215.9	1196.7	998.0
87.5°	613.3	262.8	194.5	162.4	132.5	126.1	211.6	566.3	297.0	271.4	260.7
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)