

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: P510627

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

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510627
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-CA10-760-760-U-T2
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: 105402 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

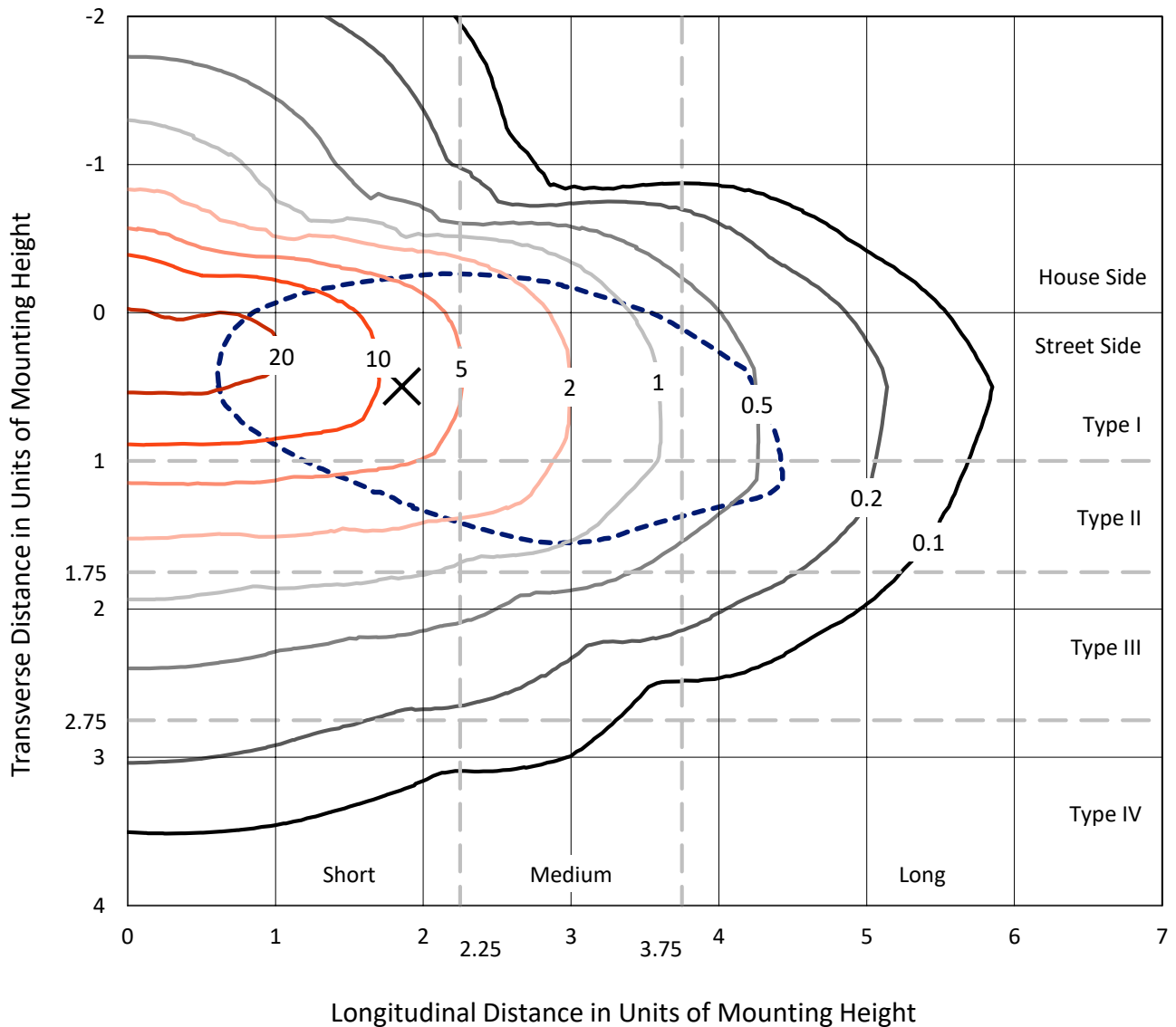
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

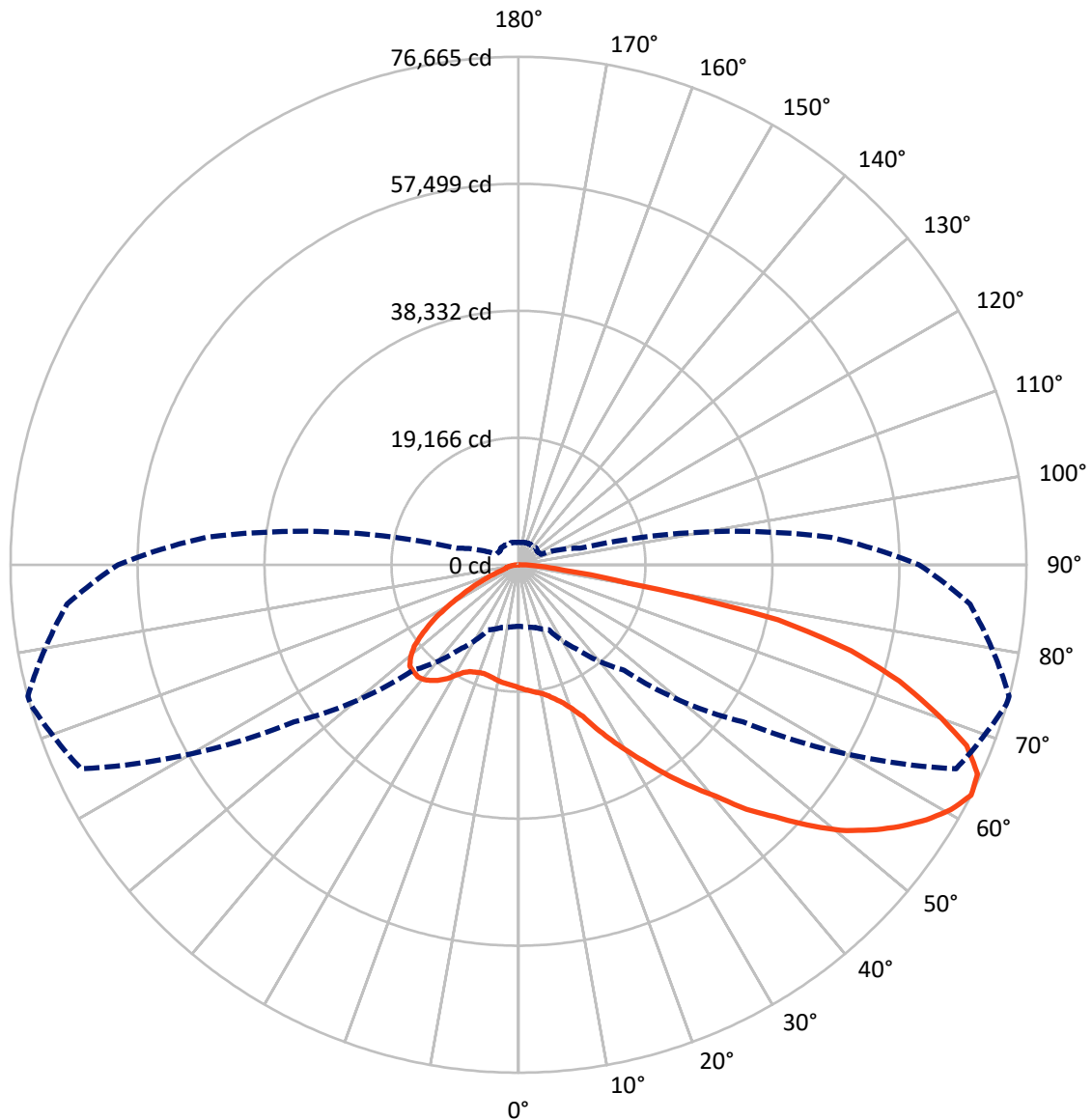
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 24.3 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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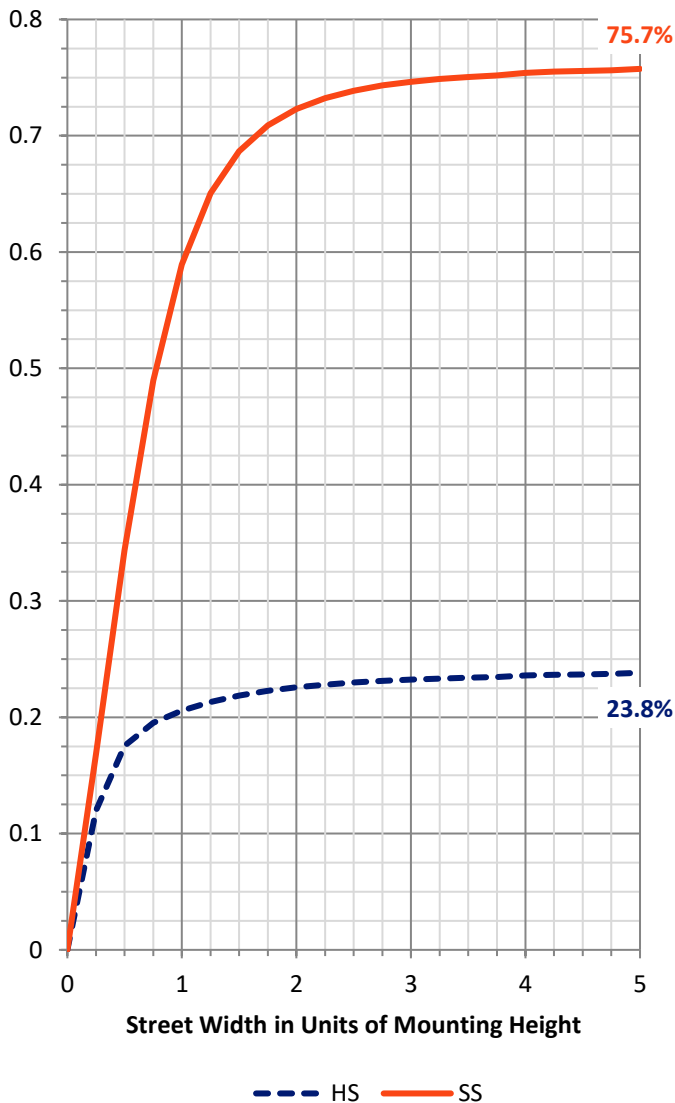
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25537.0	0.0	25537.0
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	79865.0	0.0	79865.0
	% Fixture	75.8	0.0	75.8
Total	Lumens	105402.0	0.0	105402.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1787.5	1.7
10°-20°	5424.8	5.1
20°-30°	9356.4	8.9
30°-40°	13796.2	13.1
40°-50°	18186.4	17.3
50°-60°	21403.8	20.3
60°-70°	21294.6	20.2
70°-80°	12418.4	11.8
80°-90°	1734.0	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°	105402.0	100.0
0°-180°	105402.0	100.0

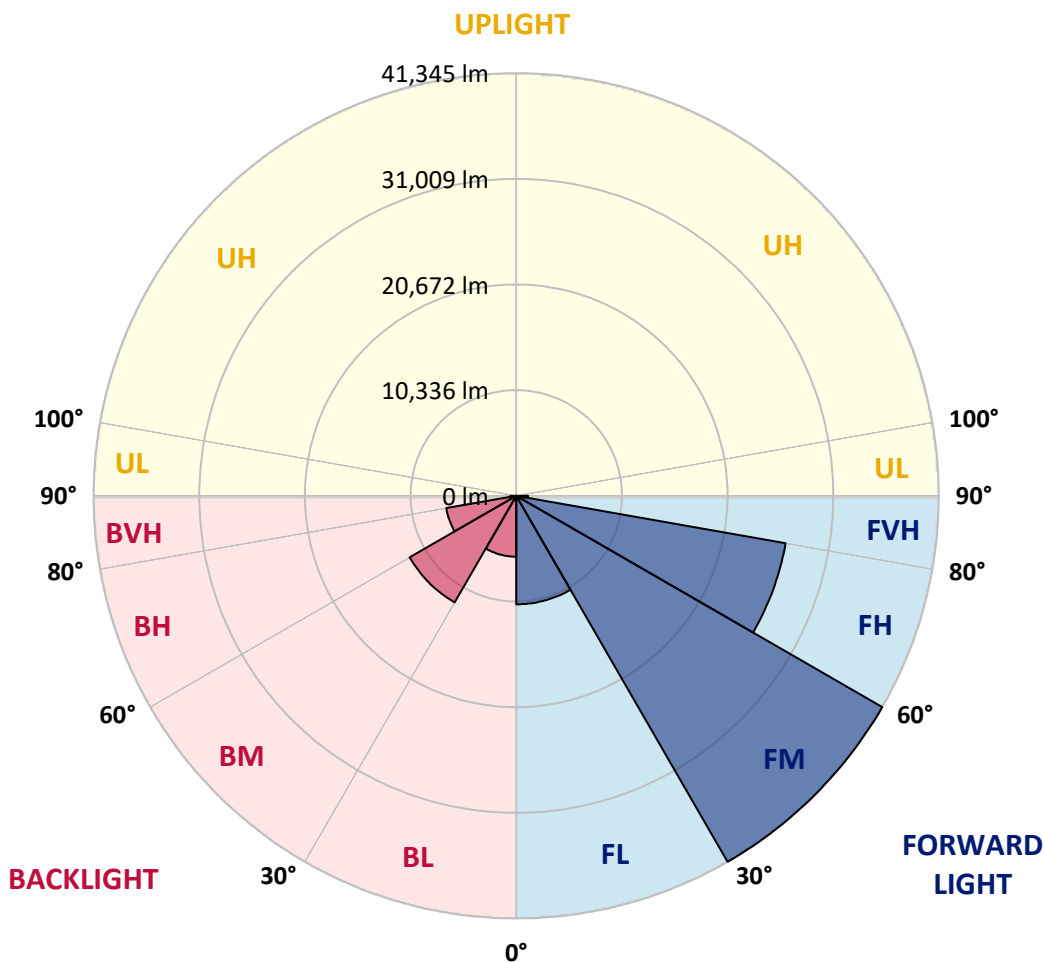


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10613.5	10.1			
FM (30°-60°)	41344.9	39.2			
FH (60°-80°)	26755.9	25.4			G5
FVH (80°-90°)	1150.7	1.1			G5
BL (0°-30°)	5955.1	5.6	B5		
BM (30°-60°)	12041.5	11.4	B5		
BH (60°-80°)	6957.2	6.6	B5		G5
BVH (80°-90°)	583.3	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°	18580.0	18580.0	18580.0	18580.0	18580.0	18580.0	18580.0	18580.0	18580.0	18580.0	18580.0
2.5°	19597.4	19517.1	19527.9	19471.5	19386.9	19324.0	19159.2	18981.3	18875.0	18866.3	18714.5
5°	20582.2	20608.3	20614.8	20434.7	20256.8	20055.1	19803.4	19460.7	19180.9	19137.5	18842.4
7.5°	21480.3	21478.1	21465.1	21365.3	21282.9	20983.5	20480.3	19942.3	19486.7	19445.5	18966.1
10°	22400.1	22393.6	22263.4	22096.4	21909.8	21634.3	21202.6	20558.4	19820.8	19766.6	19081.1
12.5°	23402.3	23330.7	23248.3	23046.5	22825.3	22348.0	21894.6	21194.0	20423.9	20326.2	19285.0
15°	24228.8	24155.0	24040.1	23903.4	23671.3	23306.8	22825.3	21994.4	21167.9	21072.5	19742.7
17.5°	25046.6	25011.9	24929.5	24784.1	24606.3	24291.7	23849.2	23144.2	22061.7	21944.5	20504.1
20°	25716.9	25634.5	25573.8	25641.0	25656.2	25424.1	25181.1	24588.9	23395.8	23215.7	21439.1
22.5°	26098.7	26081.4	26413.3	26660.6	26760.4	26812.4	26736.5	26259.3	25178.9	24864.4	22740.7
25°	26461.0	26432.8	26884.0	27502.3	28090.1	28389.5	28591.2	28654.1	27662.8	27378.6	24834.0
27.5°	26471.8	26549.9	27205.1	28242.0	29137.9	30051.2	31018.7	31129.3	30259.4	30033.8	27215.9
30°	26530.4	26565.1	27213.7	28404.7	30270.3	31734.5	32994.9	33617.5	32866.9	32762.8	29838.6
32.5°	25786.3	25831.9	26840.6	28688.9	31125.0	33476.5	35149.0	36073.1	35886.6	35754.2	32637.0
35°	25011.9	25051.0	26222.4	28285.4	31760.6	35057.9	37094.9	38910.5	39251.1	39151.3	35758.6
37.5°	23797.1	23927.3	25155.1	27803.8	31871.2	36220.6	38951.8	41737.1	42765.4	42466.0	39060.2
40°	22478.2	22573.6	24003.2	26795.1	31747.6	36984.2	40776.1	44865.2	46110.4	45949.9	42338.0
42.5°	20812.2	21068.1	22499.9	25506.5	31112.0	37459.3	42463.8	48412.0	50221.2	50436.0	45349.0
45°	19408.6	19402.1	20731.9	23640.9	29960.1	37572.1	44017.1	51997.9	54644.4	54240.9	49329.6
47.5°	17757.8	17825.1	19213.4	21784.0	28261.5	37214.2	45227.5	56236.7	58915.7	58696.6	52594.4
50°	13937.7	14421.4	17050.6	20187.4	25964.2	36216.3	46236.2	60364.8	62922.4	63022.2	55562.0
52.5°	12015.7	12202.3	13653.5	18580.0	23925.1	34541.6	47342.6	65009.3	66794.6	66540.8	58930.9
55°	11245.6	11345.4	12041.7	15692.6	21953.2	31949.3	47874.1	69250.2	69814.2	69773.0	61703.3
57.5°	10688.1	10764.0	11258.6	13096.0	19788.3	28621.6	47425.0	72009.6	72886.0	72617.0	64319.4
60°	9883.3	9944.0	10681.6	11800.9	17560.4	25261.4	44663.5	73261.2	75113.8	75014.0	66631.9
62.5°	9278.1	9382.2	9794.3	10844.3	15657.9	22493.4	41372.7	72870.8	76575.9	76664.9	68397.7
65°	8638.1	8731.4	9080.6	9998.3	13933.3	20673.3	37823.7	70914.1	75903.4	76139.9	68684.0
67.5°	7848.5	7920.1	8334.4	9128.4	11918.1	18853.3	33821.4	67454.1	72172.3	72933.7	65833.6
70°	6855.0	6881.0	7388.6	7928.8	9896.3	16109.1	26892.7	61790.0	66772.9	66788.1	60451.6
72.5°	5455.8	5477.5	5612.0	6021.9	7434.2	12748.9	19766.6	51629.1	60208.6	60098.0	53726.8
75°	3709.5	3900.4	4366.8	4757.3	5362.5	8952.7	12293.4	34784.6	51010.8	51878.6	44132.0
77.5°	2930.7	2948.1	3141.1	3499.1	4021.9	6687.9	6889.7	19245.9	38029.8	40092.8	34689.1
80°	2043.5	2073.8	1969.7	2056.5	2804.9	4577.2	4026.2	8375.6	15859.7	16933.5	20827.3
82.5°	974.0	1008.7	1158.4	1076.0	1394.9	1945.9	2125.9	4327.7	6850.6	7030.7	8108.8
85°	642.1	642.1	644.3	609.6	813.5	848.2	965.3	1846.1	3345.0	3457.8	3438.3
87.5°	206.1	227.8	221.3	258.1	312.4	282.0	295.0	579.2	1147.6	1136.7	950.1
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°	18580.0	18580.0	18580.0	18580.0	18580.0	18580.0	18580.0	18580.0	18580.0	18580.0	18580.0
2.5°	18606.0	18517.1	18308.8	18126.6	17946.5	17809.9	17692.7	17536.5	17462.8	17395.5	17536.5
5°	18660.2	18501.9	18128.8	17755.6	17412.9	17161.3	17007.2	16894.4	16792.5	16792.5	16840.2
7.5°	18723.1	18508.4	17974.7	17445.4	16931.3	16645.0	16425.9	16282.7	16200.3	16204.6	16306.6
10°	18764.4	18434.6	17799.0	17085.3	16525.6	16065.8	15851.0	15644.9	15488.7	15395.4	15499.6
12.5°	18812.1	18410.8	17562.6	16757.8	16076.6	15556.0	15109.1	14955.1	14803.2	14686.1	14742.5
15°	19107.1	18501.9	17365.2	16341.3	15551.6	14903.0	14317.3	14035.3	13991.9	13911.7	13931.2
17.5°	19588.7	18747.0	17237.2	15831.5	14920.4	14154.6	13412.7	13048.3	12961.5	12920.3	12942.0
20°	20306.7	19213.4	17276.2	15473.5	14208.8	13352.0	12393.2	11965.8	11677.3	11694.6	11779.2
22.5°	21404.4	19966.1	17488.8	15080.9	13438.7	12315.1	11347.6	10766.2	10475.5	10412.6	10508.0
25°	23152.8	21178.8	17723.1	14705.6	12694.7	11195.7	10124.1	9495.0	9121.9	9098.0	9204.3
27.5°	25393.7	23037.9	18232.9	14380.2	11770.6	9850.7	8785.6	8247.6	7850.7	7802.9	7768.2
30°	27686.6	25103.0	19154.8	13885.6	10692.4	8462.4	7536.1	7115.3	6670.6	6490.5	6529.6
32.5°	30116.2	27027.2	20235.1	13538.5	9486.3	7241.1	6436.3	6035.0	5627.1	5366.8	5306.1
35°	32563.2	28940.5	21144.1	13020.1	8343.1	6271.4	5501.3	5087.0	4731.2	4518.6	4503.4
37.5°	35426.7	30931.9	21872.9	12469.1	7156.5	5512.2	4585.9	4347.3	4175.9	3989.3	4008.8
40°	38294.5	33253.0	22456.5	11558.0	6171.6	4696.5	3902.6	3950.3	3987.2	3831.0	3817.9
42.5°	40676.3	35203.2	22723.3	10377.9	5299.6	3987.2	3601.0	3817.9	3978.5	3876.5	3863.5
45°	43095.1	36845.4	22619.2	8913.6	4575.0	3648.7	3577.2	3798.4	4004.5	3980.6	3969.8
47.5°	45724.3	38997.3	22439.1	7245.4	4056.6	3616.2	3629.2	3733.3	3993.7	4037.0	4019.7
50°	48939.2	40977.9	21374.0	5642.3	3804.9	3668.3	3746.4	3692.1	3913.4	4002.3	4017.5
52.5°	52138.9	42502.9	19948.8	4889.6	3705.1	3718.2	3909.1	3724.7	3822.3	3900.4	3972.0
55°	54607.5	44056.1	17642.8	4436.2	3672.6	3742.0	3954.6	3794.1	3791.9	3791.9	3815.8
57.5°	57134.8	46136.5	15336.9	4143.3	3616.2	3768.1	3900.4	3807.1	3776.7	3733.3	3705.1
60°	58894.0	46906.5	12373.6	3950.3	3557.6	3731.2	3748.5	3735.5	3642.2	3601.0	3568.5
62.5°	60455.9	47325.2	9633.8	3729.0	3477.4	3644.4	3553.3	3525.1	3470.9	3371.1	3388.4
65°	60037.3	46427.1	7340.9	3479.5	3421.0	3540.3	3381.9	3314.7	3319.0	3214.9	3249.6
67.5°	57343.0	42398.8	5271.4	3097.7	3267.0	3334.2	3186.7	3136.8	3063.0	3011.0	3058.7
70°	51900.3	37585.1	3555.5	2570.6	2915.5	3060.9	2963.2	2876.5	2761.5	2726.8	2778.9
72.5°	43683.0	31374.4	2453.5	2067.3	2516.4	2705.1	2668.2	2579.3	2496.9	2581.5	2683.4
75°	35886.6	23211.4	2002.3	1694.2	1935.0	2253.9	2362.4	2388.4	2635.7	3460.0	3544.6
77.5°	25831.9	14388.9	1800.5	1377.5	1544.5	1802.7	2019.6	2108.5	3219.2	3082.6	3076.1
80°	15061.4	8386.5	1373.2	1086.8	1249.5	1321.1	1579.2	2475.2	2776.7	2381.9	2323.3
82.5°	6872.3	3700.8	956.7	869.9	867.7	874.2	1076.0	2381.9	2130.2	1876.4	1807.0
85°	2527.2	1301.6	581.4	503.3	577.0	501.1	705.0	1746.3	1234.3	1214.8	1013.1
87.5°	622.6	266.8	197.4	164.9	134.5	128.0	214.8	574.9	301.5	275.5	264.7
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)