

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: McGRAW-EDISON

Report Number: P510607

Luminaire Tested: **CTN-CA10-760-740-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510607
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: McGRAW-EDISON
Catalog Number: CTN-CA10-760-740-U-T2
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 105745 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

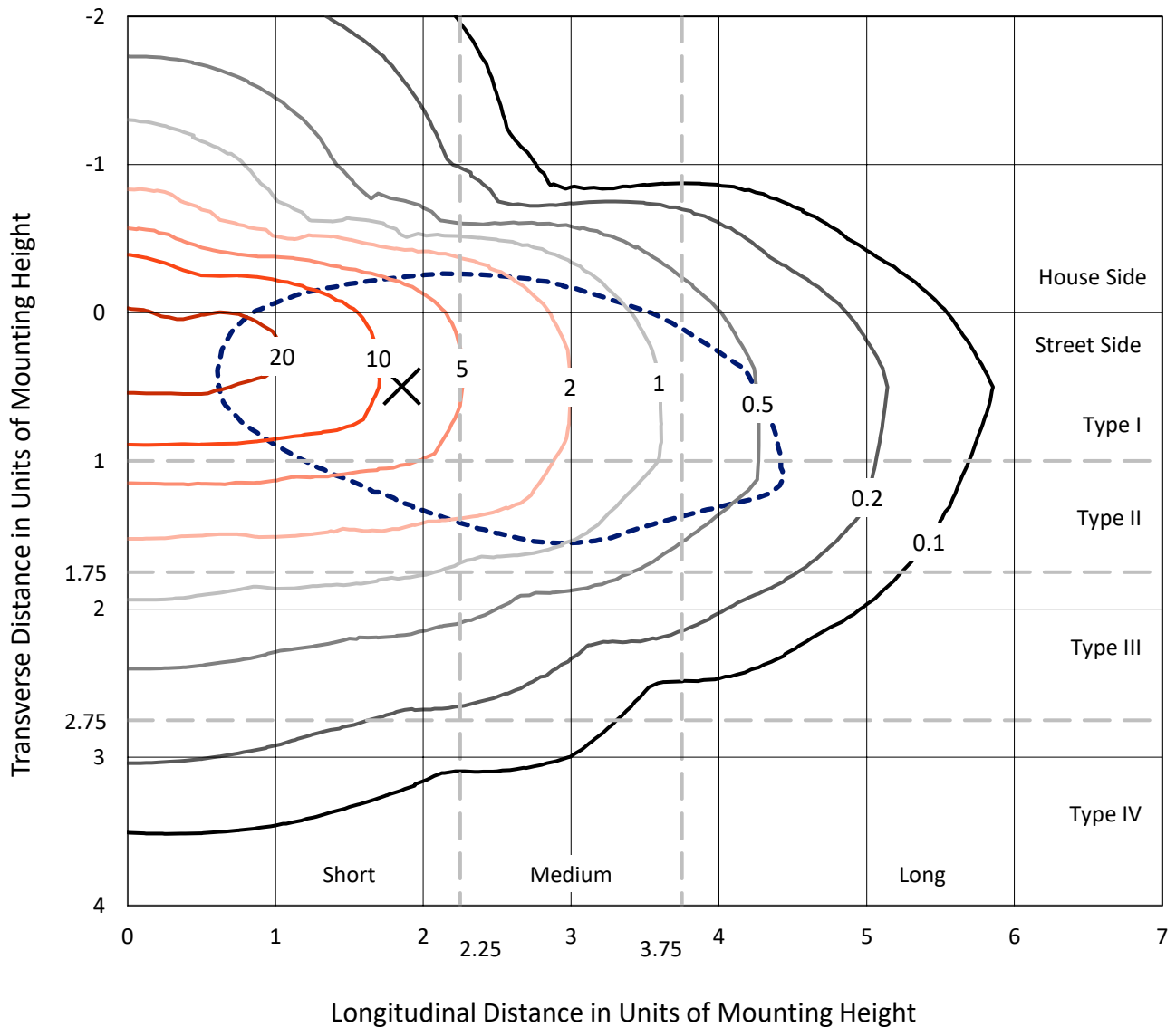
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

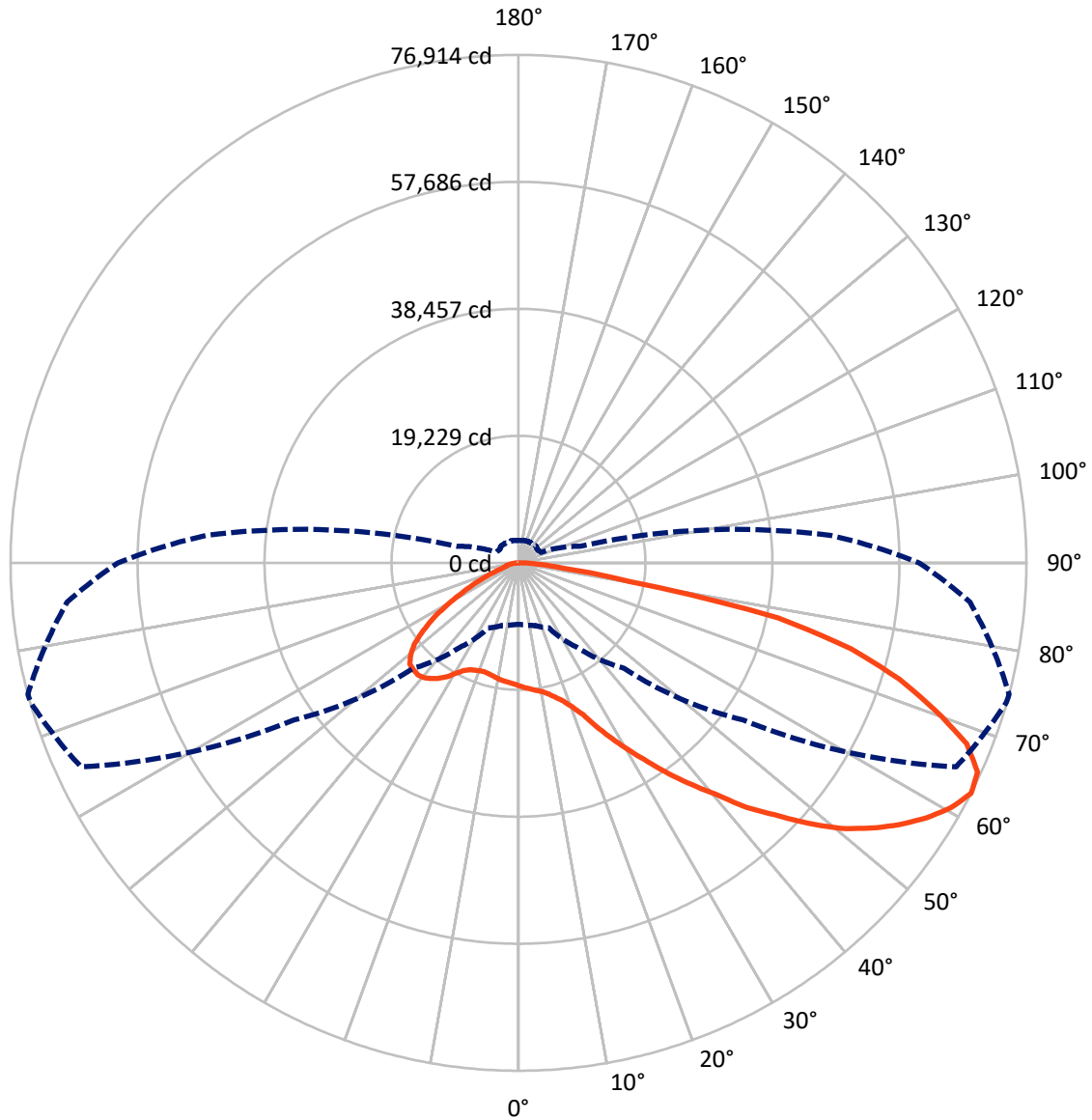
✕ Max cd
 - - - 1/2 Max cd



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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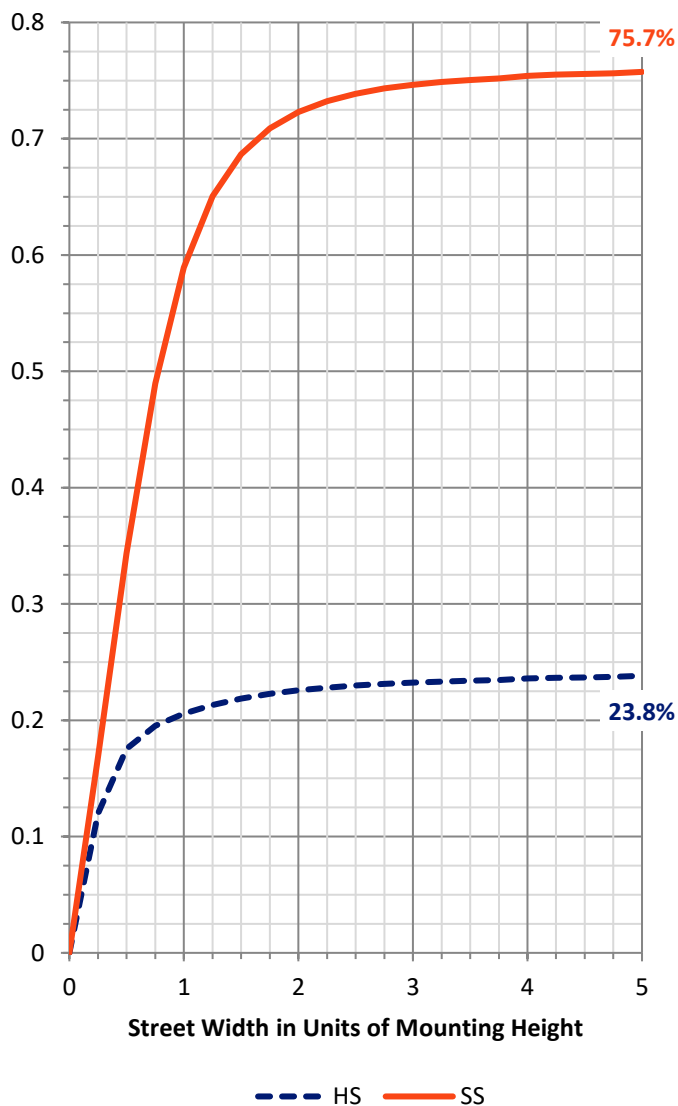
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25620.1	0.0	25620.1
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	80124.9	0.0	80124.9
	% Fixture	75.8	0.0	75.8
Total	Lumens	105745.0	0.0	105745.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1793.3	1.7
10°-20°	5442.4	5.1
20°-30°	9386.9	8.9
30°-40°	13841.1	13.1
40°-50°	18245.6	17.3
50°-60°	21473.4	20.3
60°-70°	21363.9	20.2
70°-80°	12458.8	11.8
80°-90°	1739.6	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°	105745.0	100.0
0°-180°	105745.0	100.0

Coefficient of Utilization

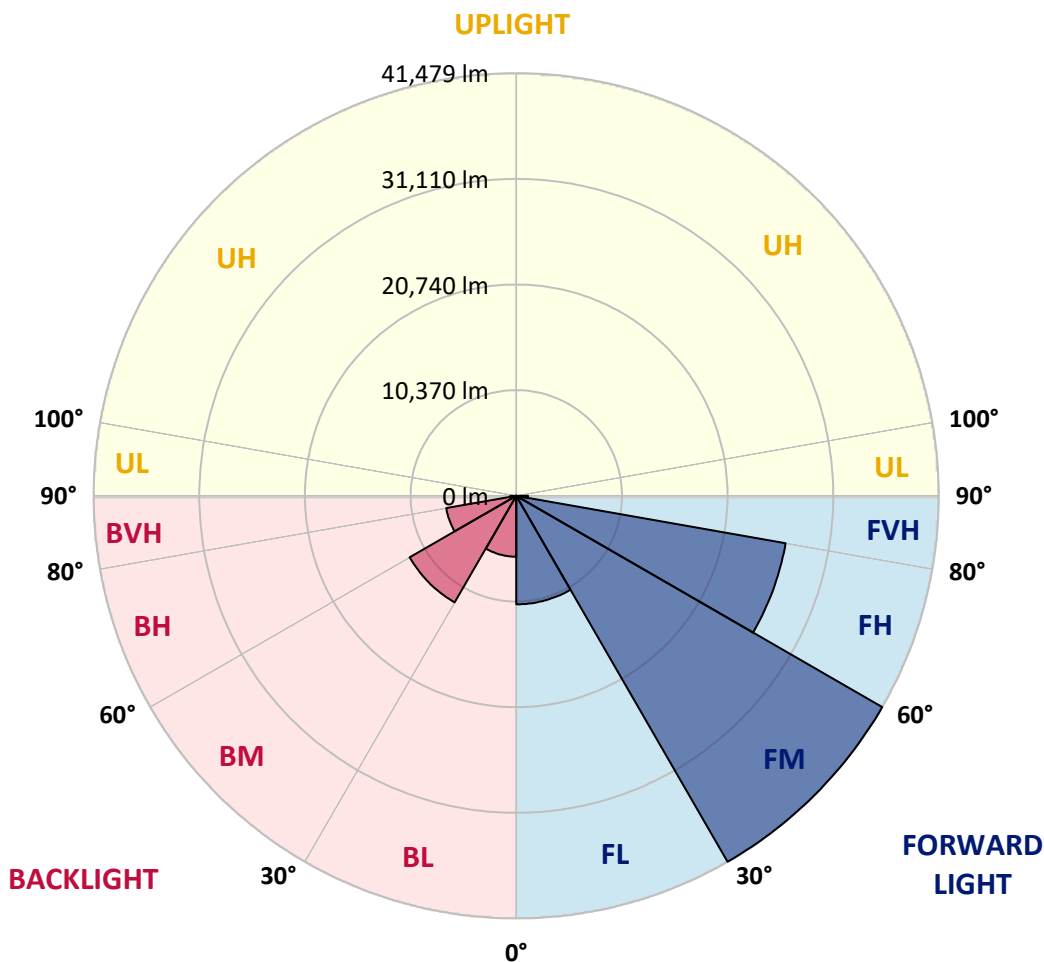


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10648.1	10.1			
FM (30°-60°)	41479.4	39.2			
FH (60°-80°)	26843.0	25.4			G5
FVH (80°-90°)	1154.4	1.1			G5
BL (0°-30°)	5974.5	5.6	B5		
BM (30°-60°)	12080.6	11.4	B5		
BH (60°-80°)	6979.8	6.6	B5		G5
BVH (80°-90°)	585.2	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°	18640.4	18640.4	18640.4	18640.4	18640.4	18640.4	18640.4	18640.4	18640.4	18640.4	18640.4
2.5°	19661.1	19580.6	19591.5	19534.9	19450.0	19386.9	19221.5	19043.1	18936.4	18927.7	18775.4
5°	20649.2	20675.3	20681.8	20501.2	20322.7	20120.3	19867.9	19524.0	19243.3	19199.8	18903.8
7.5°	21550.2	21548.0	21535.0	21434.9	21352.2	21051.8	20546.9	20007.2	19550.1	19508.8	19027.8
10°	22473.0	22466.5	22335.9	22168.3	21981.1	21704.7	21271.6	20625.3	19885.3	19830.9	19143.2
12.5°	23478.5	23406.6	23323.9	23121.5	22899.5	22420.7	21965.9	21262.9	20490.3	20392.4	19347.7
15°	24307.6	24233.6	24118.3	23981.2	23748.3	23382.7	22899.5	22066.0	21236.8	21141.1	19807.0
17.5°	25128.1	25093.3	25010.6	24864.8	24686.3	24370.8	23926.8	23219.5	22133.5	22015.9	20570.9
20°	25800.6	25717.9	25657.0	25724.4	25739.7	25506.8	25263.1	24668.9	23471.9	23291.3	21508.9
22.5°	26183.7	26166.2	26499.2	26747.3	26847.4	26899.7	26823.5	26344.7	25260.9	24945.3	22814.7
25°	26547.1	26518.8	26971.5	27591.8	28181.5	28481.9	28684.3	28747.4	27752.8	27467.7	24914.8
27.5°	26558.0	26636.3	27293.6	28333.9	29232.7	30149.0	31119.6	31230.6	30357.9	30131.6	27304.5
30°	26616.7	26651.6	27302.3	28497.1	30368.8	31837.8	33102.3	33726.9	32973.9	32869.4	29935.7
32.5°	25870.3	25916.0	26928.0	28782.2	31226.3	33585.4	35263.4	36190.5	36003.3	35870.6	32743.2
35°	25093.3	25132.5	26307.7	28377.4	31863.9	35172.0	37215.6	39037.2	39378.9	39278.7	35874.9
37.5°	23874.5	24005.1	25236.9	27894.3	31974.9	36338.5	39078.5	41873.0	42904.5	42604.2	39187.3
40°	22551.3	22647.1	24081.3	26882.3	31850.9	37104.6	40908.8	45011.2	46260.5	46099.4	42475.8
42.5°	20879.9	21136.7	22573.1	25589.5	31213.2	37581.2	42602.0	48569.6	50384.7	50600.1	45496.6
45°	19471.8	19465.3	20799.4	23717.9	30057.6	37694.4	44160.3	52167.1	54822.2	54417.4	49490.2
47.5°	17815.6	17883.1	19275.9	21854.9	28353.5	37335.3	45374.7	56419.7	59107.5	58887.6	52765.6
50°	13983.0	14468.4	17106.1	20253.1	26048.7	36334.1	46386.7	60561.3	63127.2	63227.3	55742.8
52.5°	12054.8	12242.0	13697.9	18640.4	24003.0	34654.0	47496.6	65220.8	67012.0	66757.3	59122.7
55°	11282.2	11382.3	12080.9	15743.7	22024.7	32053.3	48029.8	69475.6	70041.4	70000.1	61904.1
57.5°	10722.9	10799.0	11295.3	13138.6	19852.7	28714.7	47579.3	72243.9	73123.1	72853.3	64528.7
60°	9915.4	9976.4	10716.3	11839.3	17617.5	25343.6	44808.8	73499.7	75358.3	75258.1	66848.7
62.5°	9308.2	9412.7	9826.2	10879.6	15708.9	22566.6	41507.3	73107.9	76825.1	76914.3	68620.3
65°	8666.2	8759.8	9110.2	10030.8	13978.7	20740.6	37946.8	71144.8	76150.4	76387.7	68907.6
67.5°	7874.0	7945.8	8361.5	9158.1	11956.9	18914.6	33931.5	67673.6	72407.1	73171.0	66047.8
70°	6877.3	6903.4	7412.6	7954.6	9928.5	16161.6	26980.2	61991.1	66990.2	67005.4	60648.3
72.5°	5473.5	5495.3	5630.2	6041.5	7458.3	12790.4	19830.9	51797.1	60404.6	60293.6	53901.6
75°	3721.6	3913.1	4381.0	4772.7	5379.9	8981.8	12333.4	34897.8	51176.8	52047.4	44275.6
77.5°	2940.2	2957.7	3151.4	3510.5	4035.0	6709.7	6912.1	19308.6	38153.6	40223.3	34802.0
80°	2050.1	2080.6	1976.1	2063.2	2814.0	4592.1	4039.3	8402.9	15911.3	16988.6	20895.1
82.5°	977.2	1012.0	1162.2	1079.5	1399.4	1952.2	2132.8	4341.8	6872.9	7053.5	8135.2
85°	644.2	644.2	646.4	611.6	816.1	851.0	968.5	1852.1	3355.9	3469.1	3449.5
87.5°	206.8	228.5	222.0	259.0	313.4	282.9	296.0	581.1	1151.3	1140.4	953.2
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°	18640.4	18640.4	18640.4	18640.4	18640.4	18640.4	18640.4	18640.4	18640.4	18640.4	18640.4
2.5°	18666.5	18577.3	18368.4	18185.6	18004.9	17867.8	17750.3	17593.6	17519.6	17452.1	17593.6
5°	18721.0	18562.1	18187.7	17813.4	17469.6	17217.1	17062.6	16949.4	16847.1	16847.1	16895.0
7.5°	18784.1	18568.6	18033.2	17502.2	16986.4	16699.1	16479.3	16335.7	16253.0	16257.3	16359.6
10°	18825.4	18494.6	17856.9	17140.9	16579.4	16118.0	15902.6	15695.8	15539.1	15445.5	15550.0
12.5°	18873.3	18470.7	17619.7	16812.3	16128.9	15606.6	15158.3	15003.7	14851.4	14733.9	14790.5
15°	19169.3	18562.1	17421.7	16394.4	15602.2	14951.5	14363.9	14081.0	14037.5	13956.9	13976.5
17.5°	19652.4	18808.0	17293.3	15883.0	14968.9	14200.7	13456.4	13090.7	13003.7	12962.3	12984.1
20°	20372.8	19275.9	17332.4	15523.9	14255.1	13395.4	12433.5	12004.7	11715.3	11732.7	11817.6
22.5°	21474.0	20031.1	17545.7	15130.0	13482.5	12355.1	11384.5	10801.2	10509.6	10446.5	10542.2
25°	23228.2	21247.7	17780.8	14753.5	12736.0	11232.1	10157.0	9525.9	9151.5	9127.6	9234.2
27.5°	25476.3	23112.8	18292.2	14427.0	11808.9	9882.8	8814.2	8274.5	7876.2	7828.3	7793.5
30°	27776.7	25184.7	19217.2	13930.8	10727.2	8489.9	7560.6	7138.4	6692.3	6511.6	6550.8
32.5°	30214.3	27115.1	20301.0	13582.6	9517.2	7264.7	6457.2	6054.6	5645.4	5384.3	5323.3
35°	32669.2	29034.7	21212.9	13062.4	8370.2	6291.8	5519.2	5103.5	4746.6	4533.3	4518.1
37.5°	35542.0	31032.6	21944.1	12509.7	7179.8	5530.1	4600.8	4361.4	4189.5	4002.3	4021.9
40°	38419.1	33361.3	22529.6	11595.6	6191.7	4711.8	3915.3	3963.1	4000.1	3843.4	3830.4
42.5°	40808.7	35317.8	22797.3	10411.7	5316.8	4000.1	3612.7	3830.4	3991.4	3889.1	3876.1
45°	43235.3	36965.3	22692.8	8942.6	4589.9	3660.6	3588.8	3810.8	4017.5	3993.6	3982.7
47.5°	45873.1	39124.2	22512.2	7269.0	4069.8	3628.0	3641.0	3745.5	4006.7	4050.2	4032.8
50°	49098.4	41111.2	21443.6	5660.7	3817.3	3680.2	3758.6	3704.1	3926.1	4015.4	4030.6
52.5°	52308.5	42641.2	20013.7	4905.5	3717.2	3730.3	3921.8	3736.8	3834.7	3913.1	3984.9
55°	54785.2	44199.5	17700.2	4450.6	3684.6	3754.2	3967.5	3806.4	3804.3	3804.3	3828.2
57.5°	57320.7	46286.6	15386.8	4156.8	3628.0	3780.3	3913.1	3819.5	3789.0	3745.5	3717.2
60°	59085.7	47059.2	12413.9	3963.1	3569.2	3743.3	3760.7	3747.7	3654.1	3612.7	3580.1
62.5°	60652.7	47479.2	9665.2	3741.1	3488.7	3656.3	3564.9	3536.6	3482.2	3382.0	3399.5
65°	60232.6	46578.2	7364.8	3490.9	3432.1	3551.8	3392.9	3325.5	3329.8	3225.3	3260.2
67.5°	57529.6	42536.7	5288.5	3107.8	3277.6	3345.0	3197.1	3147.0	3073.0	3020.8	3068.7
70°	52069.1	37707.4	3567.0	2579.0	2925.0	3070.8	2972.9	2885.8	2770.5	2735.7	2787.9
72.5°	43825.1	31476.5	2461.5	2074.1	2524.6	2713.9	2676.9	2587.7	2505.0	2589.9	2692.1
75°	36003.3	23286.9	2008.8	1699.7	1941.3	2261.2	2370.0	2396.2	2644.3	3471.3	3556.2
77.5°	25916.0	14435.7	1806.4	1382.0	1549.6	1808.5	2026.2	2115.4	3229.7	3092.6	3086.1
80°	15110.4	8413.8	1377.6	1090.4	1253.6	1325.4	1584.4	2483.2	2785.7	2389.6	2330.9
82.5°	6894.7	3712.9	959.8	872.7	870.5	877.1	1079.5	2389.6	2137.2	1882.5	1812.9
85°	2535.4	1305.8	583.3	504.9	578.9	502.7	707.3	1752.0	1238.3	1218.8	1016.4
87.5°	624.6	267.7	198.0	165.4	134.9	128.4	215.5	576.7	302.5	276.4	265.5
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)