

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: P510557

Luminaire Tested: **CTN-CA10-630-750-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510557
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-CA10-630-750-U-T2
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: 93270 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

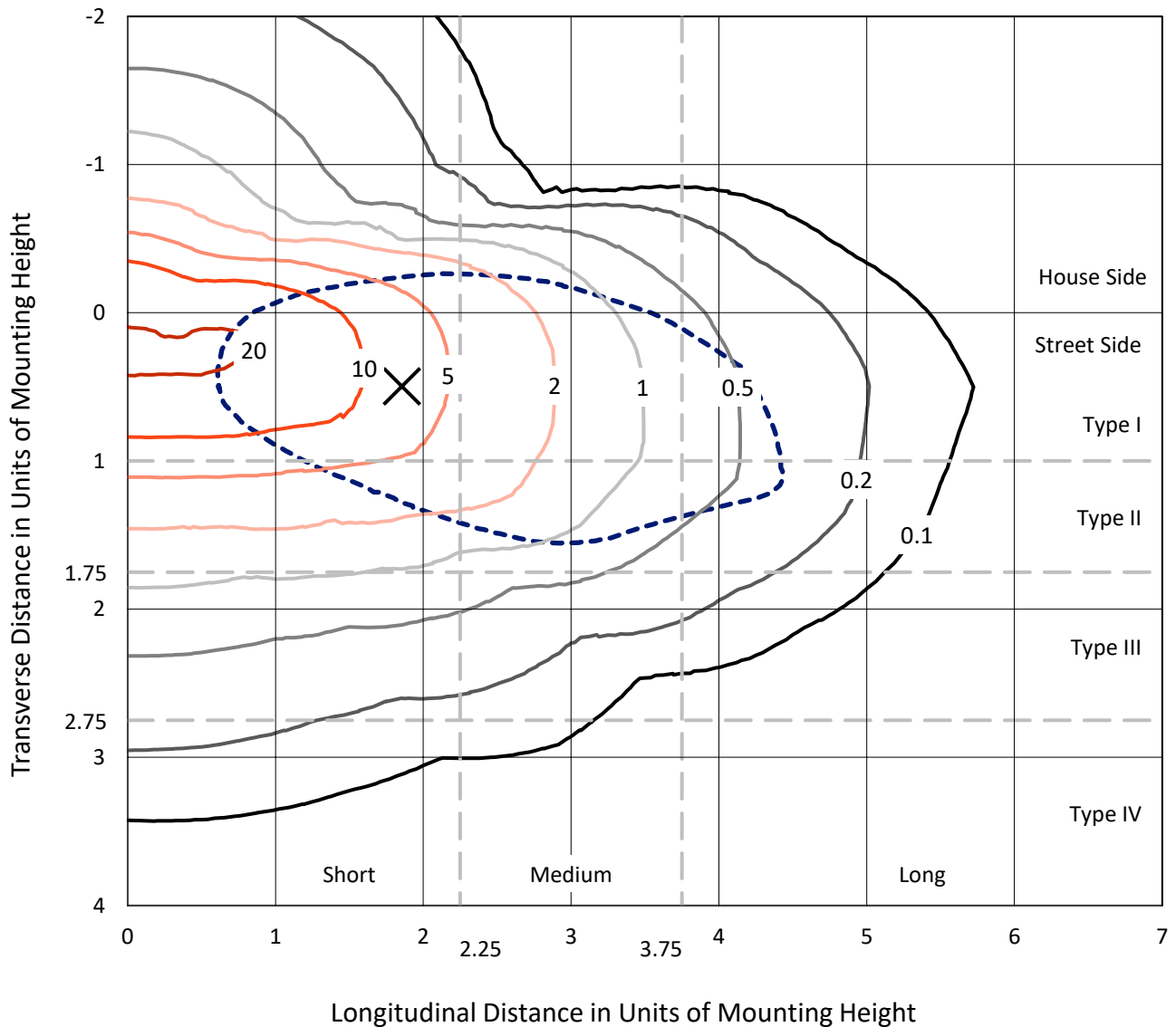
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

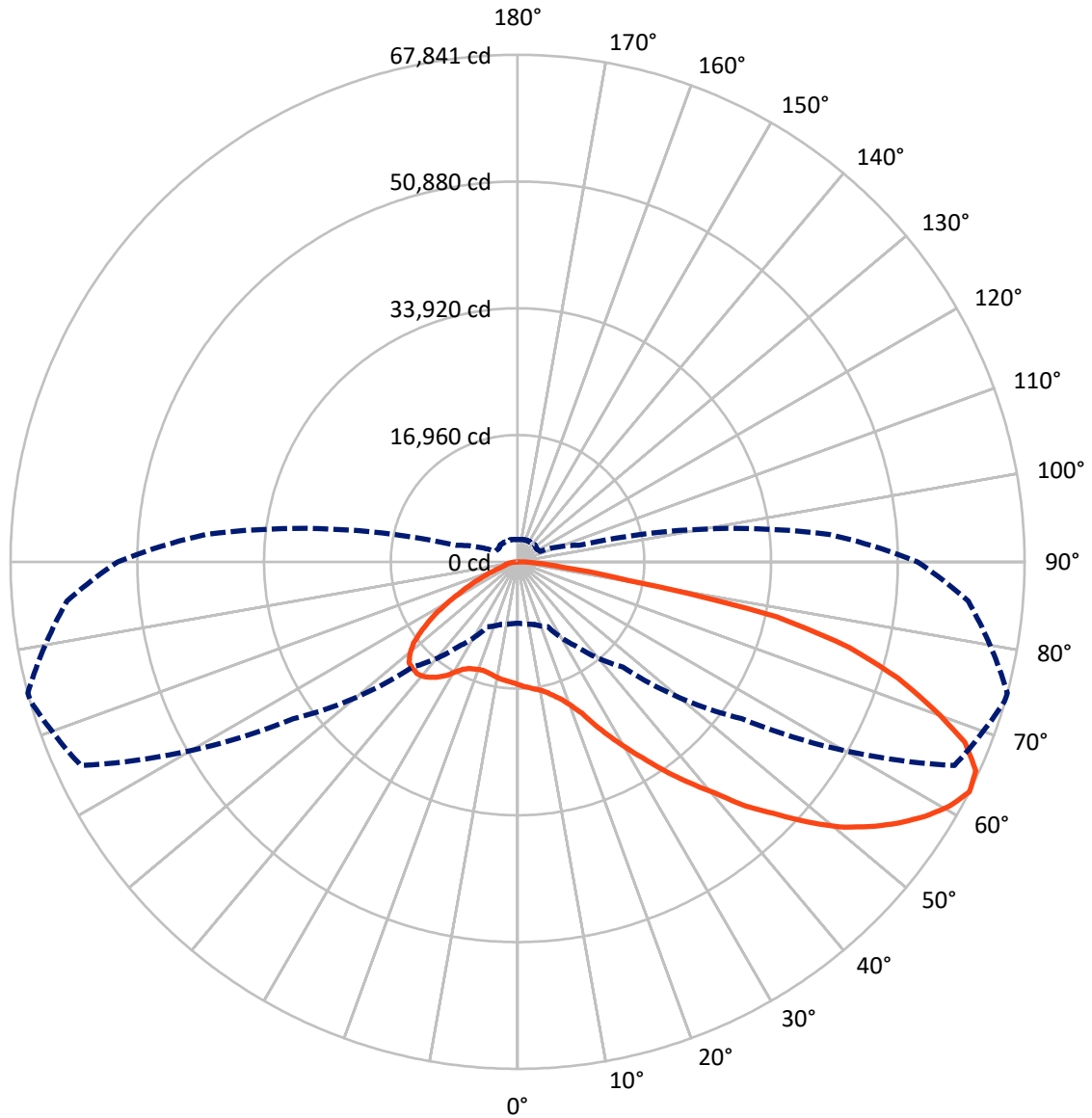
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 21.5 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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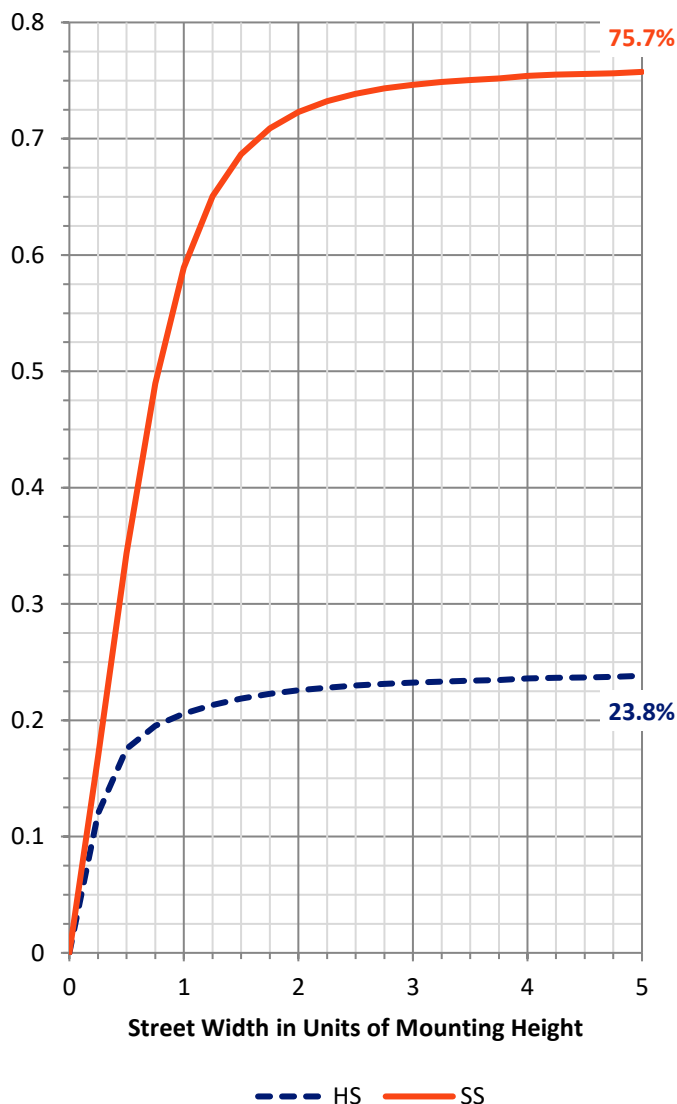
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22597.7	0.0	22597.7
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	70672.3	0.0	70672.3
	% Fixture	75.8	0.0	75.8
Total	Lumens	93270.0	0.0	93270.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1581.7	1.7
10°-20°	4800.4	5.1
20°-30°	8279.5	8.9
30°-40°	12208.2	13.1
40°-50°	16093.1	17.3
50°-60°	18940.1	20.3
60°-70°	18843.6	20.2
70°-80°	10989.0	11.8
80°-90°	1534.4	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°	93270.0	100.0
0°-180°	93270.0	100.0

Coefficient of Utilization



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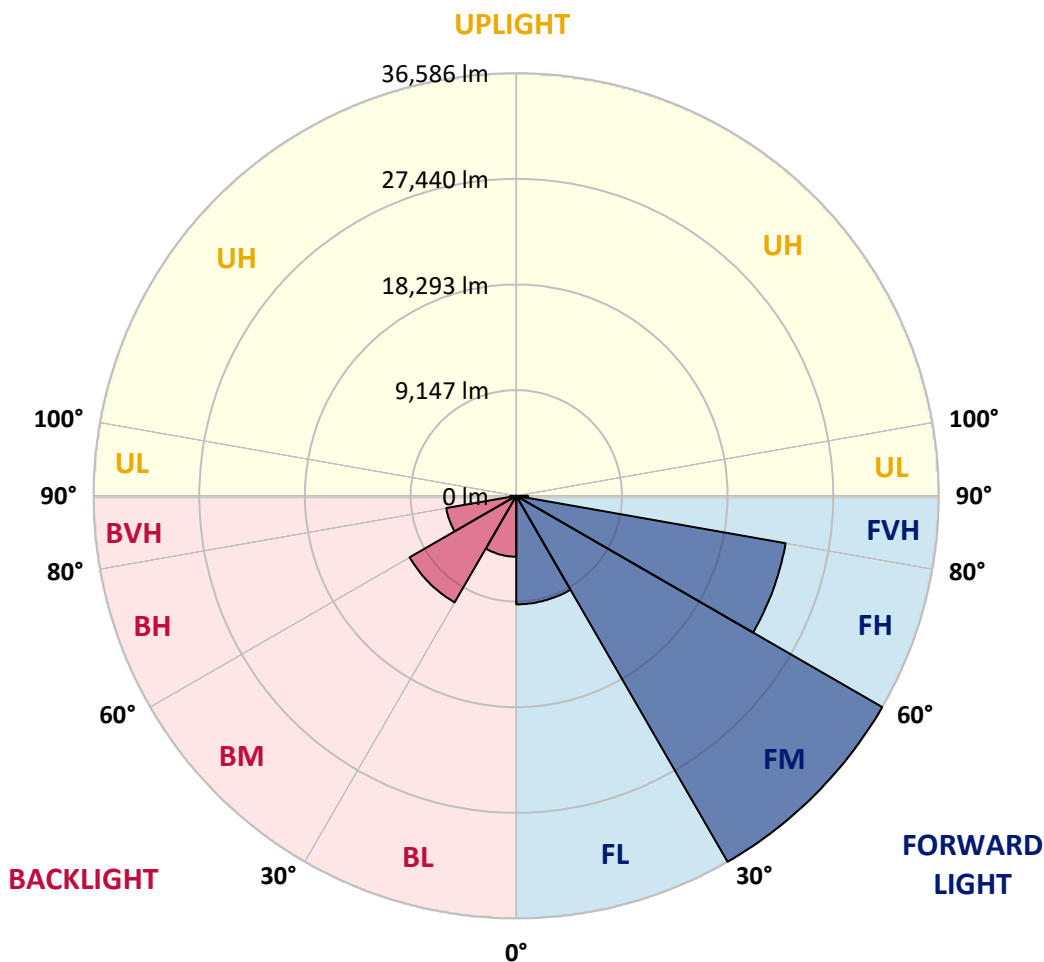
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9391.9	10.1			
FM (30°-60°)	36586.0	39.2			
FH (60°-80°)	23676.2	25.4			G5
FVH (80°-90°)	1018.2	1.1			G5
BL (0°-30°)	5269.7	5.6	B5		
BM (30°-60°)	10655.5	11.4	B5		
BH (60°-80°)	6156.4	6.6	B5		G5
BVH (80°-90°)	516.2	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°	16441.4	16441.4	16441.4	16441.4	16441.4	16441.4	16441.4	16441.4	16441.4	16441.4	16441.4
2.5°	17341.7	17270.6	17280.2	17230.3	17155.5	17099.8	16953.9	16796.5	16702.4	16694.8	16560.4
5°	18213.2	18236.2	18242.0	18082.6	17925.2	17746.7	17524.0	17220.7	16973.1	16934.7	16673.6
7.5°	19007.9	19006.0	18994.4	18906.1	18833.2	18568.3	18122.9	17646.9	17243.8	17207.3	16783.1
10°	19821.8	19816.0	19700.9	19553.0	19388.0	19144.2	18762.2	18192.0	17539.4	17491.4	16884.8
12.5°	20708.6	20645.3	20572.3	20393.8	20198.0	19775.7	19374.5	18754.5	18073.0	17986.6	17065.2
15°	21440.0	21374.7	21273.0	21152.1	20946.7	20624.2	20198.0	19462.8	18731.5	18647.0	17470.3
17.5°	22163.7	22133.0	22060.0	21931.4	21774.0	21495.7	21104.1	20480.2	19522.3	19418.7	18144.1
20°	22756.9	22683.9	22630.2	22689.7	22703.1	22497.7	22282.7	21758.7	20702.9	20543.6	18971.4
22.5°	23094.7	23079.3	23373.0	23591.9	23680.2	23726.3	23659.1	23236.8	22280.8	22002.5	20123.2
25°	23415.3	23390.3	23789.6	24336.7	24856.9	25121.8	25300.3	25356.0	24478.7	24227.3	21975.6
27.5°	23424.9	23494.0	24073.7	24991.3	25784.1	26592.2	27448.4	27546.3	26776.5	26576.9	24083.3
30°	23476.7	23507.4	24081.4	25135.2	26786.1	28081.8	29197.1	29748.0	29083.9	28991.7	26404.1
32.5°	22818.3	22858.6	23751.2	25386.7	27542.4	29623.3	31103.3	31921.0	31755.9	31638.8	28880.4
35°	22133.0	22167.5	23204.1	25029.7	28104.9	31022.7	32825.2	34431.9	34733.2	34644.9	31642.7
37.5°	21058.0	21173.2	22259.7	24603.5	28202.8	32051.6	34468.3	36933.1	37843.0	37578.1	34564.3
40°	19890.9	19975.4	21240.4	23710.9	28093.3	32727.3	36082.7	39701.2	40803.0	40661.0	37464.8
42.5°	18416.6	18643.2	19910.1	22570.7	27530.9	33147.6	37576.2	42839.7	44440.7	44630.7	40129.2
45°	17174.7	17168.9	18345.6	20919.8	26511.6	33247.5	38950.6	46012.8	48354.7	47997.7	43651.7
47.5°	15713.8	15773.4	17001.9	19276.6	25008.5	32930.7	40021.7	49763.7	52134.4	51940.5	46540.7
50°	12333.4	12761.5	15088.1	17863.8	22975.7	32047.7	40914.3	53416.7	55679.9	55768.2	49166.7
52.5°	10632.7	10797.7	12082.0	16441.4	21171.3	30565.8	41893.3	57526.6	59106.4	58881.8	52147.8
55°	9951.2	10039.5	10655.7	13886.4	19426.3	28271.9	42363.6	61279.4	61778.5	61742.0	54601.1
57.5°	9457.9	9525.1	9962.7	11588.6	17510.6	25327.2	41966.3	63721.1	64496.6	64258.6	56916.1
60°	8745.7	8799.4	9452.1	10442.6	15539.2	22353.7	39522.6	64828.7	66468.1	66379.8	58962.4
62.5°	8210.1	8302.3	8667.0	9596.1	13855.7	19904.3	36610.6	64483.2	67761.9	67840.6	60525.0
65°	7643.8	7726.4	8035.4	8847.4	12329.6	18293.8	33470.1	62751.7	67166.8	67376.0	60778.4
67.5°	6945.1	7008.5	7375.1	8077.7	10546.3	16683.2	29928.5	59690.0	63865.1	64538.9	58256.0
70°	6065.9	6089.0	6538.2	7016.1	8757.2	14254.9	23797.3	54677.9	59087.2	59100.6	53493.5
72.5°	4827.8	4847.0	4966.0	5328.8	6578.5	11281.5	17491.4	45686.5	53278.5	53180.6	47542.7
75°	3282.5	3451.4	3864.2	4209.7	4745.3	7922.2	10878.4	30780.8	45139.4	45907.2	39052.3
77.5°	2593.4	2608.7	2779.6	3096.3	3558.9	5918.1	6096.6	17030.7	33652.5	35478.0	30696.3
80°	1808.3	1835.1	1743.0	1819.8	2482.0	4050.4	3562.8	7411.6	14034.2	14984.4	18430.1
82.5°	861.9	892.6	1025.1	952.1	1234.3	1721.9	1881.2	3829.6	6062.1	6221.4	7175.5
85°	568.2	568.2	570.1	539.4	719.8	750.6	854.2	1633.6	2960.0	3059.8	3042.6
87.5°	182.4	201.6	195.8	228.4	276.4	249.5	261.1	512.5	1015.5	1005.9	840.8
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°	16441.4	16441.4	16441.4	16441.4	16441.4	16441.4	16441.4	16441.4	16441.4	16441.4	16441.4
2.5°	16464.4	16385.7	16201.4	16040.2	15880.8	15759.9	15656.3	15518.0	15452.8	15393.3	15518.0
5°	16512.4	16372.3	16042.1	15711.9	15408.6	15186.0	15049.7	14949.8	14859.6	14859.6	14901.9
7.5°	16568.1	16378.0	15905.8	15437.4	14982.5	14729.1	14535.2	14408.5	14335.6	14339.4	14429.6
10°	16604.5	16312.8	15750.3	15118.8	14623.5	14216.6	14026.5	13844.2	13705.9	13623.4	13715.5
12.5°	16646.8	16291.6	15541.1	14828.9	14226.2	13765.4	13370.0	13233.7	13099.3	12995.7	13045.6
15°	16907.8	16372.3	15366.4	14460.3	13761.6	13187.6	12669.4	12419.8	12381.4	12310.4	12327.7
17.5°	17334.0	16589.2	15253.1	14009.2	13203.0	12525.4	11868.9	11546.4	11469.6	11433.1	11452.3
20°	17969.4	17001.9	15287.7	13692.5	12573.4	11815.1	10966.7	10588.5	10333.2	10348.6	10423.4
22.5°	18940.7	17668.0	15475.8	13345.1	11891.9	10897.6	10041.4	9527.0	9269.7	9214.1	9298.5
25°	20487.9	18741.1	15683.1	13013.0	11233.5	9907.1	8958.8	8402.1	8071.9	8050.8	8144.9
27.5°	22470.8	20386.1	16134.2	12725.0	10415.7	8716.9	7774.4	7298.3	6947.0	6904.8	6874.1
30°	24499.9	22213.6	16950.1	12287.4	9461.7	7488.4	6668.7	6296.3	5902.8	5743.4	5778.0
32.5°	26649.8	23916.3	17906.0	11980.2	8394.4	6407.6	5695.5	5340.3	4979.4	4749.1	4695.3
35°	28815.1	25609.4	18710.3	11521.4	7382.8	5549.6	4868.1	4501.5	4186.6	3998.5	3985.1
37.5°	31349.0	27371.6	19355.3	11033.9	6332.8	4877.7	4058.0	3846.9	3695.2	3530.1	3547.4
40°	33886.7	29425.5	19871.7	10227.6	5461.3	4155.9	3453.4	3495.6	3528.2	3390.0	3378.5
42.5°	35994.4	31151.3	20107.8	9183.4	4689.6	3528.2	3186.5	3378.5	3520.5	3430.3	3418.8
45°	38134.8	32604.4	20015.7	7887.6	4048.4	3228.8	3165.4	3361.2	3543.6	3522.5	3512.9
47.5°	40461.3	34508.6	19856.3	6411.5	3589.7	3200.0	3211.5	3303.6	3534.0	3572.4	3557.0
50°	43306.2	36261.2	18913.8	4992.9	3367.0	3246.0	3315.1	3267.2	3463.0	3541.7	3555.1
52.5°	46137.6	37610.7	17652.6	4326.8	3278.7	3290.2	3459.1	3296.0	3382.3	3451.4	3514.8
55°	48322.1	38985.1	15612.1	3925.6	3249.9	3311.3	3499.4	3357.4	3355.5	3355.5	3376.6
57.5°	50558.4	40826.0	13571.6	3666.4	3200.0	3334.3	3451.4	3368.9	3342.0	3303.6	3278.7
60°	52115.2	41507.5	10949.4	3495.6	3148.1	3301.7	3317.1	3305.6	3223.0	3186.5	3157.7
62.5°	53497.3	41878.0	8524.9	3299.8	3077.1	3224.9	3144.3	3119.3	3071.4	2983.1	2998.4
65°	53126.8	41083.3	6495.9	3079.0	3027.2	3132.8	2992.7	2933.1	2937.0	2844.8	2875.6
67.5°	50742.7	37518.6	4664.6	2741.2	2890.9	2950.4	2819.9	2775.7	2710.5	2664.4	2706.6
70°	45926.4	33259.0	3146.2	2274.7	2579.9	2708.6	2622.2	2545.4	2443.7	2412.9	2459.0
72.5°	38655.0	27763.2	2171.1	1829.4	2226.7	2393.7	2361.1	2282.4	2209.5	2284.3	2374.5
75°	31755.9	20539.7	1771.8	1499.2	1712.3	1994.5	2090.4	2113.5	2332.3	3061.8	3136.6
77.5°	22858.6	12732.7	1593.3	1218.9	1366.8	1595.2	1787.1	1865.9	2848.7	2727.8	2722.0
80°	13327.8	7421.2	1215.1	961.7	1105.7	1169.0	1397.5	2190.3	2457.1	2107.7	2055.9
82.5°	6081.3	3274.8	846.5	769.8	767.8	773.6	952.1	2107.7	1885.0	1660.5	1599.0
85°	2236.3	1151.8	514.5	445.3	510.6	443.4	623.9	1545.3	1092.3	1075.0	896.5
87.5°	550.9	236.1	174.7	145.9	119.0	113.3	190.0	508.7	266.8	243.8	234.2
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)