

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: P510619

Luminaire Tested: **CTN-CA10-760-750-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510619
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: McGRAW-EDISON
Catalog Number: CTN-CA10-760-750-U-T3
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: 108704 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

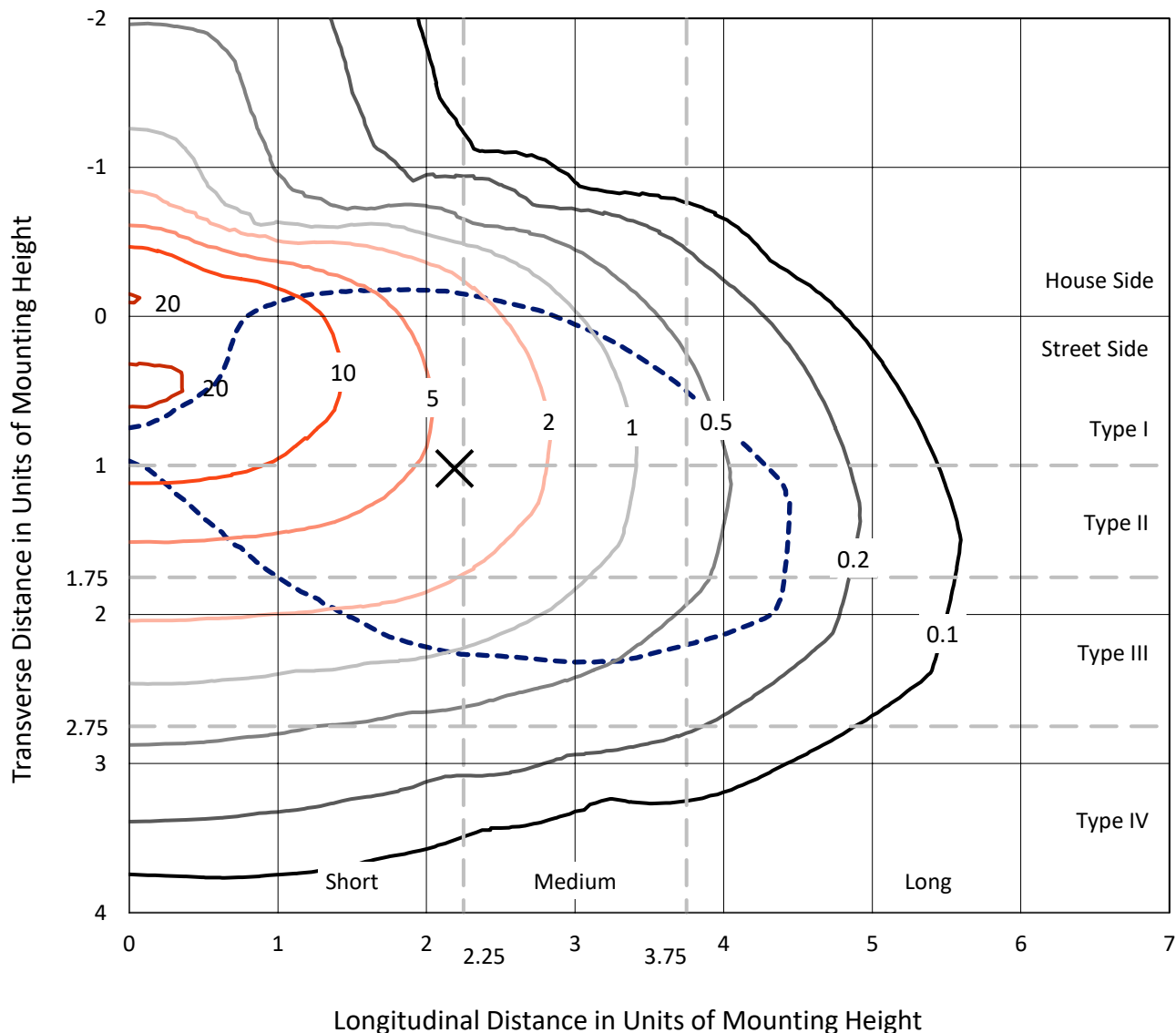
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

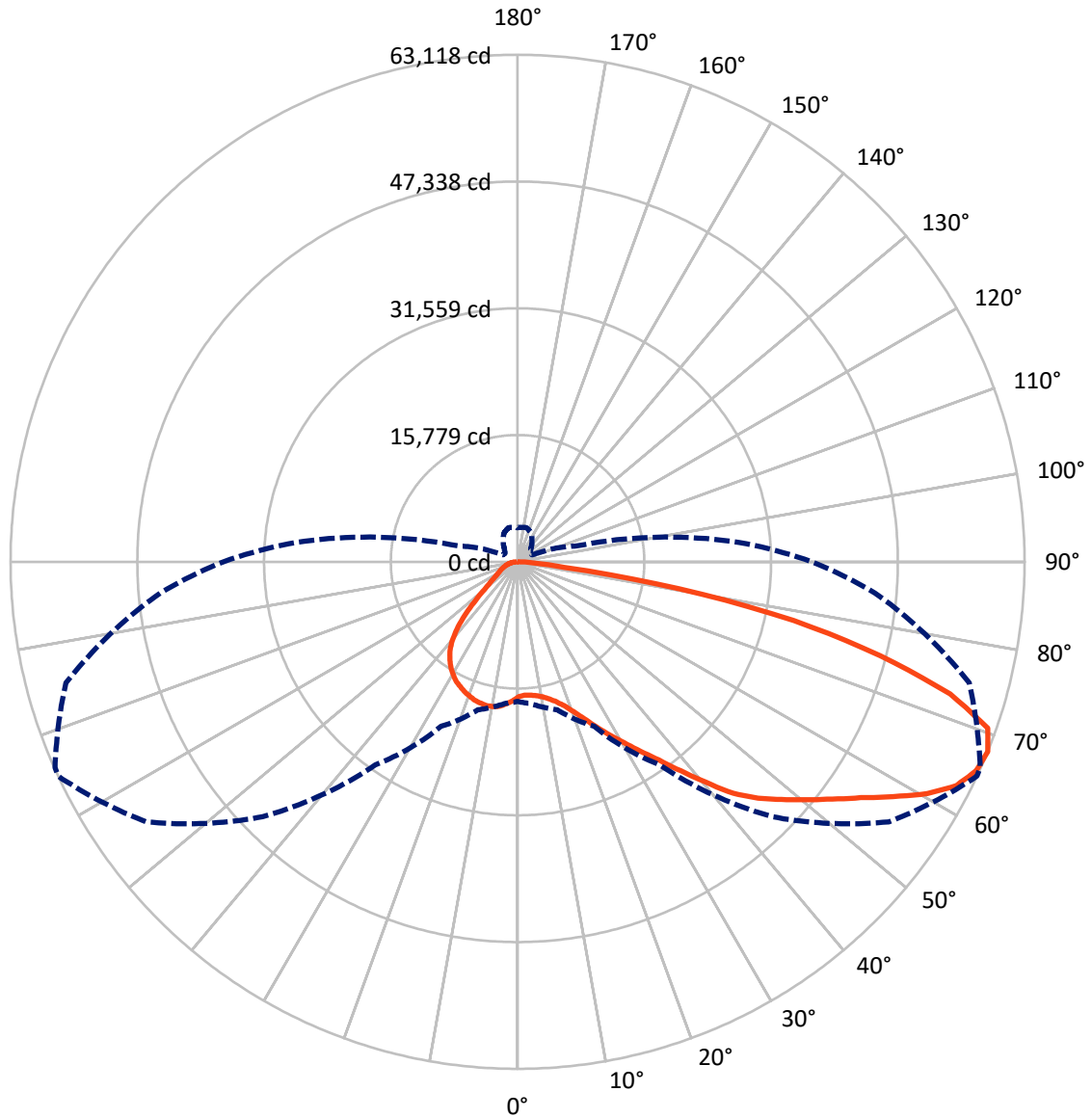
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 20.8 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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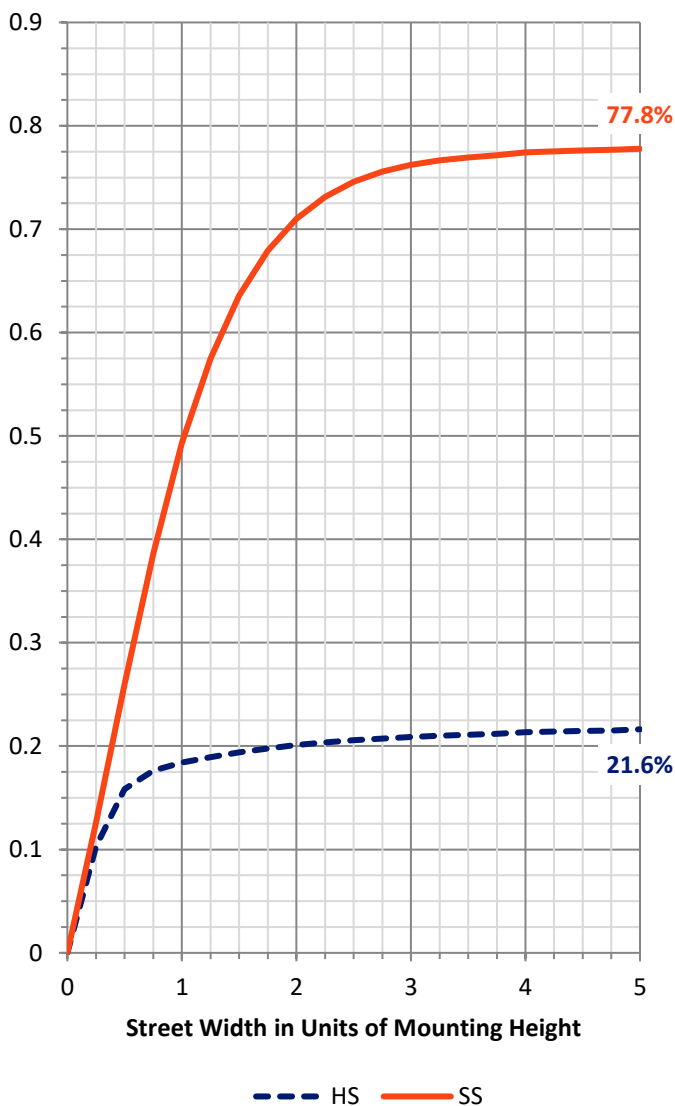
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24011.4	0.0	24011.4
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	84692.7	0.0	84692.7
	% Fixture	77.9	0.0	77.9
Total	Lumens	108704.0	0.0	108704.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1672.9	1.5
10°-20°	5226.8	4.8
20°-30°	9048.3	8.3
30°-40°	13295.5	12.2
40°-50°	17970.5	16.5
50°-60°	22098.4	20.3
60°-70°	23679.8	21.8
70°-80°	13966.1	12.8
80°-90°	1745.7	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°	108704.0	100.0
0°-180°	108704.0	100.0

Coefficient of Utilization



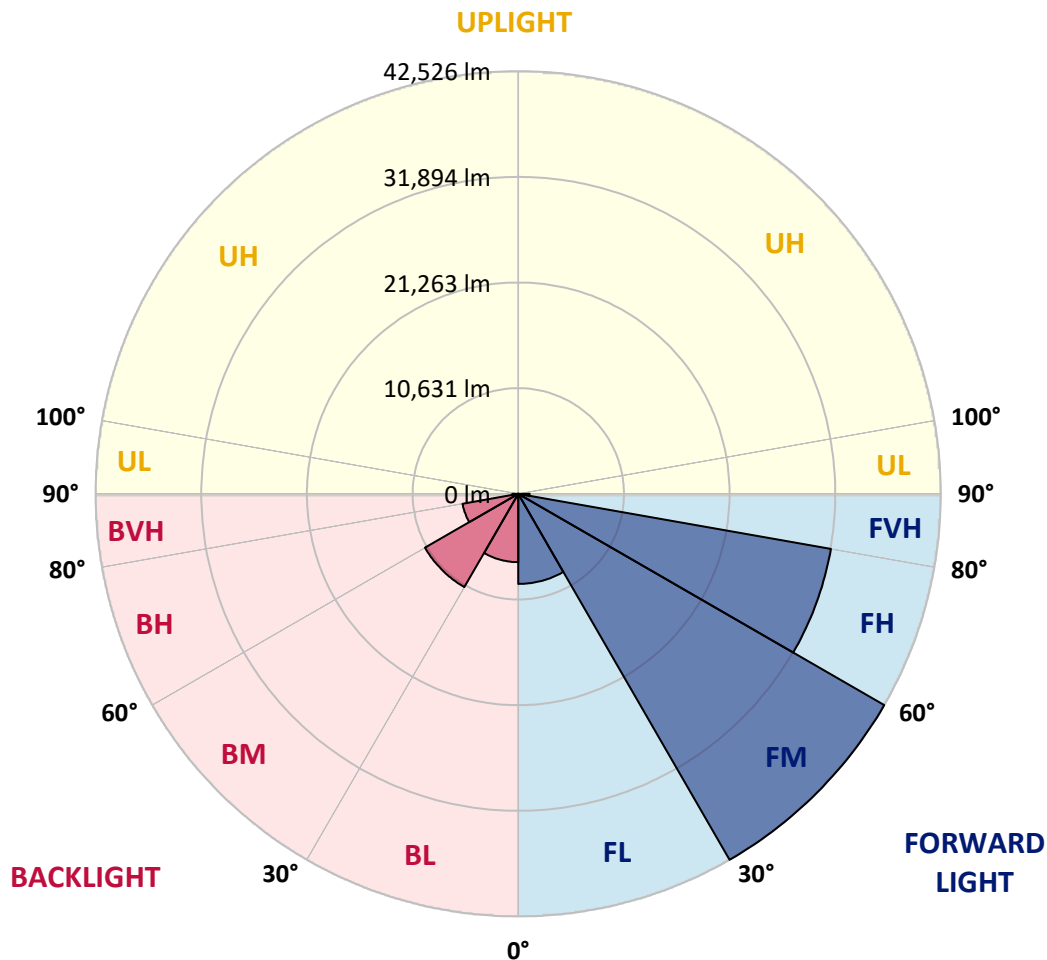
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9070.5	8.3			
FM (30°-60°)	42525.7	39.1			
FH (60°-80°)	31951.7	29.4			G5
FVH (80°-90°)	1144.8	1.1			G5
BL (0°-30°)	6877.5	6.3	B5		
BM (30°-60°)	10838.6	10.0	B5		
BH (60°-80°)	5694.2	5.2	B5		G5
BVH (80°-90°)	601.0	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°	16790.6	16790.6	16790.6	16790.6	16790.6	16790.6	16790.6	16790.6	16790.6	16790.6	16790.6
2.5°	16473.7	16442.7	16429.4	16471.5	16502.5	16538.0	16589.0	16637.7	16644.4	16708.6	16792.9
5°	16673.2	16646.6	16617.8	16611.1	16600.0	16597.8	16611.1	16666.5	16679.8	16741.9	16923.6
7.5°	17116.4	17089.8	17036.7	17016.7	16956.9	16850.5	16799.5	16828.3	16835.0	16910.3	17136.4
10°	17839.0	17757.0	17692.7	17626.2	17437.8	17269.4	17145.3	17092.1	17081.0	17154.1	17415.6
12.5°	18701.1	18632.4	18561.5	18386.4	18147.0	17843.4	17624.0	17502.1	17493.2	17555.3	17752.5
15°	19612.0	19612.0	19563.2	19354.9	19120.0	18616.9	18277.8	18073.9	18087.2	18135.9	18226.8
17.5°	20788.8	20691.3	20669.2	20432.0	20170.5	19711.7	19173.2	18847.4	18862.9	18885.0	18816.3
20°	21985.6	21956.8	21923.6	21766.2	21529.1	20939.6	20334.5	19906.8	19909.0	19829.2	19523.3
22.5°	23568.1	23472.8	23497.2	23319.9	22998.5	22393.4	21697.5	21190.0	21223.2	21108.0	20553.9
25°	25139.4	25044.1	24993.2	24873.5	24596.4	24022.4	23195.7	22730.3	22690.4	22482.1	21677.6
27.5°	26708.6	26653.2	26695.3	26551.2	26325.1	25684.6	24926.7	24410.3	24436.9	24292.8	23093.8
30°	28333.1	28271.1	28455.0	28222.3	28082.7	27459.9	26732.9	26125.7	26147.8	26201.0	24855.7
32.5°	29558.7	29631.9	29953.2	29926.6	29900.0	29206.3	28441.7	28104.8	28138.1	28324.2	26947.9
35°	30742.2	30748.9	31201.0	31542.3	31686.4	31105.7	30312.3	30301.2	30518.4	31085.7	29864.6
37.5°	31724.0	31701.9	32304.7	32834.4	33228.9	32779.0	32342.4	33022.8	33220.0	34396.9	32801.2
40°	32260.4	32306.9	33082.6	33743.1	34518.8	34306.0	34352.6	36092.4	36577.7	37608.3	34997.5
42.5°	31883.6	32025.5	33233.3	34580.8	35751.0	36034.7	36970.0	39407.9	39614.0	39800.2	37158.4
45°	31252.0	31400.5	32739.1	34915.5	36768.3	37967.3	39574.2	41958.9	42184.9	41976.6	38955.8
47.5°	30593.7	30746.7	32238.2	34780.3	37610.5	39908.8	41890.2	44215.1	44503.2	43858.3	40684.5
50°	29758.2	29995.3	31626.5	34494.4	38293.1	42003.2	44082.1	46537.8	46670.7	45739.9	41994.3
52.5°	28729.8	28991.3	30755.5	34004.6	38827.3	43466.0	46300.6	49057.7	49044.4	47938.5	43492.6
55°	27648.3	27885.4	29702.8	33233.3	39126.5	44591.8	48073.6	51834.7	51994.3	51067.9	44848.9
57.5°	26263.1	26478.1	28459.4	32196.1	38816.2	45547.1	50946.0	55134.8	55214.5	53246.5	45928.3
60°	24428.0	24744.9	26735.2	30877.4	37925.2	46653.0	54110.8	58605.5	58703.0	55389.6	46622.0
62.5°	22413.4	22539.7	24567.6	28847.3	36628.7	47506.3	56305.0	61320.4	61178.6	57065.2	46830.3
65°	19957.7	20057.5	21812.8	26236.5	34219.6	47038.6	57091.7	62716.7	62541.6	58117.9	46189.8
67.5°	17386.8	17694.9	19073.4	22615.1	30857.5	44880.0	56426.9	63117.9	63029.2	58197.7	44660.6
70°	14049.1	14157.7	15403.2	18424.1	25746.7	40558.2	54210.6	62089.5	62020.8	56415.8	41537.8
72.5°	9906.8	9800.5	10405.5	12774.7	18596.9	32262.6	46285.1	56311.6	56426.9	50467.2	36172.1
75°	5259.3	5463.2	6405.1	7821.3	10542.9	20740.1	36901.3	46604.2	46564.3	42200.5	28592.4
77.5°	2801.4	2797.0	3444.1	4049.2	5161.7	9530.1	24339.3	35146.0	35341.0	32697.0	19631.9
80°	1345.3	1396.3	1436.2	1646.7	2573.1	4403.8	10181.7	20381.0	21710.8	19501.2	9326.2
82.5°	1077.1	1081.6	1086.0	1039.4	1063.8	1793.0	3922.8	5897.6	6110.3	4911.3	3007.5
85°	797.9	749.1	742.5	629.4	711.4	1077.1	1979.2	2517.7	2393.6	2329.3	1697.7
87.5°	321.4	301.4	292.6	274.8	274.8	405.6	698.1	910.9	908.7	828.9	569.6
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°	16790.6	16790.6	16790.6	16790.6	16790.6	16790.6	16790.6	16790.6	16790.6	16790.6	16790.6
2.5°	16859.4	16939.1	17125.3	17284.9	17344.7	17491.0	17628.4	17708.2	17763.6	17796.8	17947.6
5°	17034.4	17194.0	17491.0	17714.8	17932.0	18202.4	18377.5	18488.3	18550.4	18585.8	18694.4
7.5°	17302.6	17464.4	17779.1	18122.6	18322.1	18543.7	18656.8	18736.6	18776.4	18765.4	18851.8
10°	17542.0	17701.5	18016.3	18280.0	18393.0	18519.4	18579.2	18596.9	18599.1	18608.0	18694.4
12.5°	17867.8	17965.3	18133.7	18306.6	18282.2	18286.6	18337.6	18315.5	18264.5	18255.6	18313.2
15°	18217.9	18220.2	18233.5	18195.8	18042.9	17976.4	17905.4	17845.6	17706.0	17697.1	17788.0
17.5°	18656.8	18552.6	18311.0	18053.9	17690.5	17440.0	17187.4	17083.2	16912.5	16879.3	16923.6
20°	19221.9	19004.7	18417.4	17779.1	17098.7	16651.0	16345.2	16037.1	15800.0	15742.3	15784.4
22.5°	20033.1	19605.3	18552.6	17486.6	16433.8	15669.2	15075.2	14705.1	14306.2	14102.3	14122.2
25°	21012.7	20343.4	18787.5	17116.4	15651.5	14547.8	13583.7	12841.2	12391.3	12092.1	12171.9
27.5°	22295.9	21376.2	19069.0	16750.8	14678.5	13113.8	11715.3	10709.1	10250.4	10108.5	10015.4
30°	23783.1	22623.9	19366.0	16210.0	13628.0	11338.6	9547.8	8710.0	8184.8	8100.6	8029.6
32.5°	25773.3	24195.3	19922.3	15622.7	12373.6	9563.3	7619.6	6655.5	6535.9	6467.1	6451.6
35°	28339.8	26254.2	20505.2	14860.3	10737.9	7482.2	5764.6	5243.8	5186.1	5261.5	5268.1
37.5°	31063.6	28488.2	21203.3	14000.3	8856.3	5582.8	4410.4	4049.2	4113.4	4348.4	4401.6
40°	32907.5	29959.9	21837.1	12832.3	6531.4	4055.8	3209.2	3131.6	3486.2	3787.6	3849.7
42.5°	34676.1	31074.7	22094.2	11287.6	4658.7	2887.8	2590.8	2856.8	3353.3	3683.5	3727.8
45°	36185.4	32371.2	21447.1	9434.8	3158.2	2413.5	2482.2	2850.2	3402.0	3767.7	3800.9
47.5°	37621.6	33430.6	20562.8	7433.5	2491.1	2322.7	2480.0	2910.0	3510.6	3856.4	3876.3
50°	38993.5	34237.3	19053.5	5656.0	2333.8	2280.6	2500.0	3003.1	3570.5	3787.6	3778.8
52.5°	40010.8	34654.0	17446.7	4565.6	2271.7	2247.3	2553.2	3120.5	3581.5	3712.3	3703.4
55°	40757.7	34574.2	16391.7	3738.9	2220.7	2234.0	2639.6	3209.2	3687.9	3885.2	3878.5
57.5°	40826.4	34212.9	15192.7	3158.2	2158.7	2231.8	2732.7	3333.3	4219.8	4583.3	4472.5
60°	40744.4	33614.5	13995.9	2772.6	2090.0	2245.1	2830.2	3705.6	4986.7	5272.6	5195.0
62.5°	40341.0	32499.7	12202.9	2517.7	2030.1	2293.9	2903.3	4000.4	4949.0	4982.2	4871.4
65°	39095.4	31008.2	9849.2	2260.6	1970.3	2327.1	2963.2	4078.0	4545.6	4439.2	4383.8
67.5°	36630.9	27677.1	7597.5	2025.7	1892.7	2320.5	3140.5	3967.2	4392.7	4315.1	4244.2
70°	33129.2	23891.7	5274.8	1784.1	1762.0	2278.4	3096.2	4004.8	4319.6	4199.9	4104.6
72.5°	27677.1	18743.2	3355.5	1586.9	1566.9	2178.6	2985.3	3980.5	4270.8	4217.6	4086.8
75°	20839.8	13082.8	2132.1	1371.9	1394.0	1996.9	2808.0	3849.7	4246.4	4080.2	3829.8
77.5°	13120.5	6458.3	1657.8	1165.8	1199.0	1722.1	2426.8	3362.1	4075.8	3976.0	3654.7
80°	4962.3	2621.9	1296.5	946.4	975.2	1338.6	1990.2	2765.9	3752.2	3916.2	3778.8
82.5°	2285.0	1640.1	973.0	760.2	771.3	975.2	1484.9	2047.9	3176.0	3594.8	3938.4
85°	1334.2	1074.9	649.4	507.5	527.5	576.2	835.5	1250.0	2058.9	2741.6	3067.4
87.5°	454.3	374.6	252.7	215.0	208.3	237.1	201.7	410.0	611.7	1077.1	1230.0
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)