

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: P510567

Luminaire Tested: **CTN-CA10-630-760-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510567
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-CA10-630-760-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: 91293 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

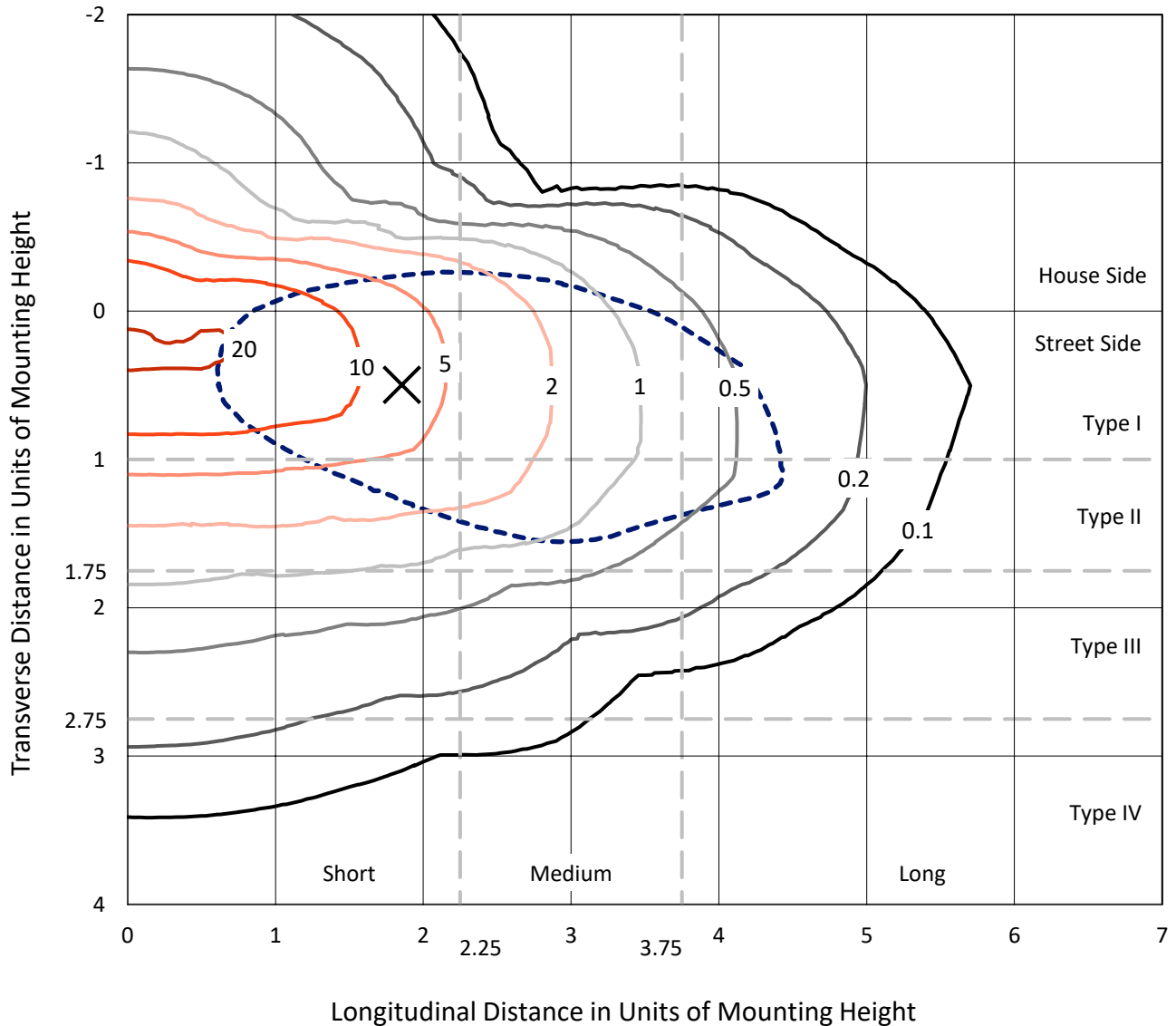
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

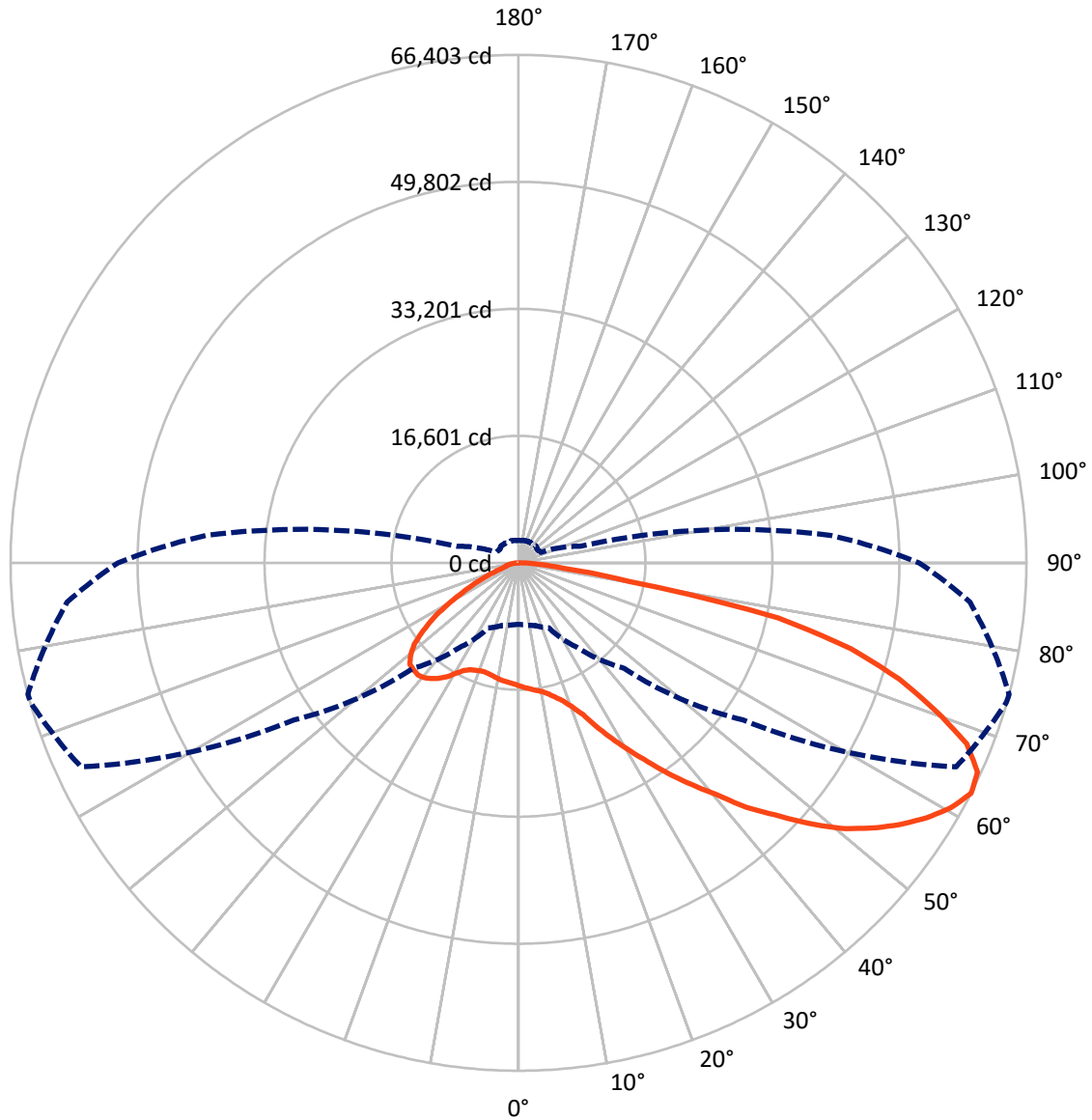
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 21 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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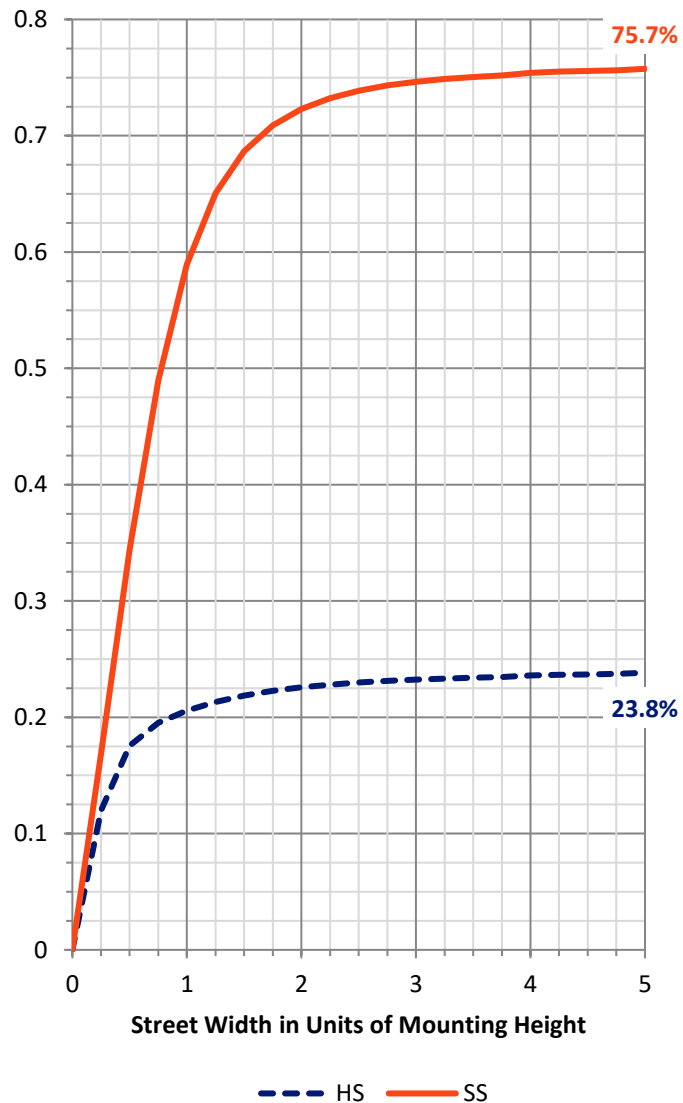
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22118.7	0.0	22118.7
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	69174.3	0.0	69174.3
	% Fixture	75.8	0.0	75.8
Total	Lumens	91293.0	0.0	91293.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1548.2	1.7
10°-20°	4698.6	5.1
20°-30°	8104.0	8.9
30°-40°	11949.4	13.1
40°-50°	15752.0	17.3
50°-60°	18538.7	20.3
60°-70°	18444.1	20.2
70°-80°	10756.1	11.8
80°-90°	1501.9	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°	91293.0	100.0
0°-180°	91293.0	100.0

Coefficient of Utilization

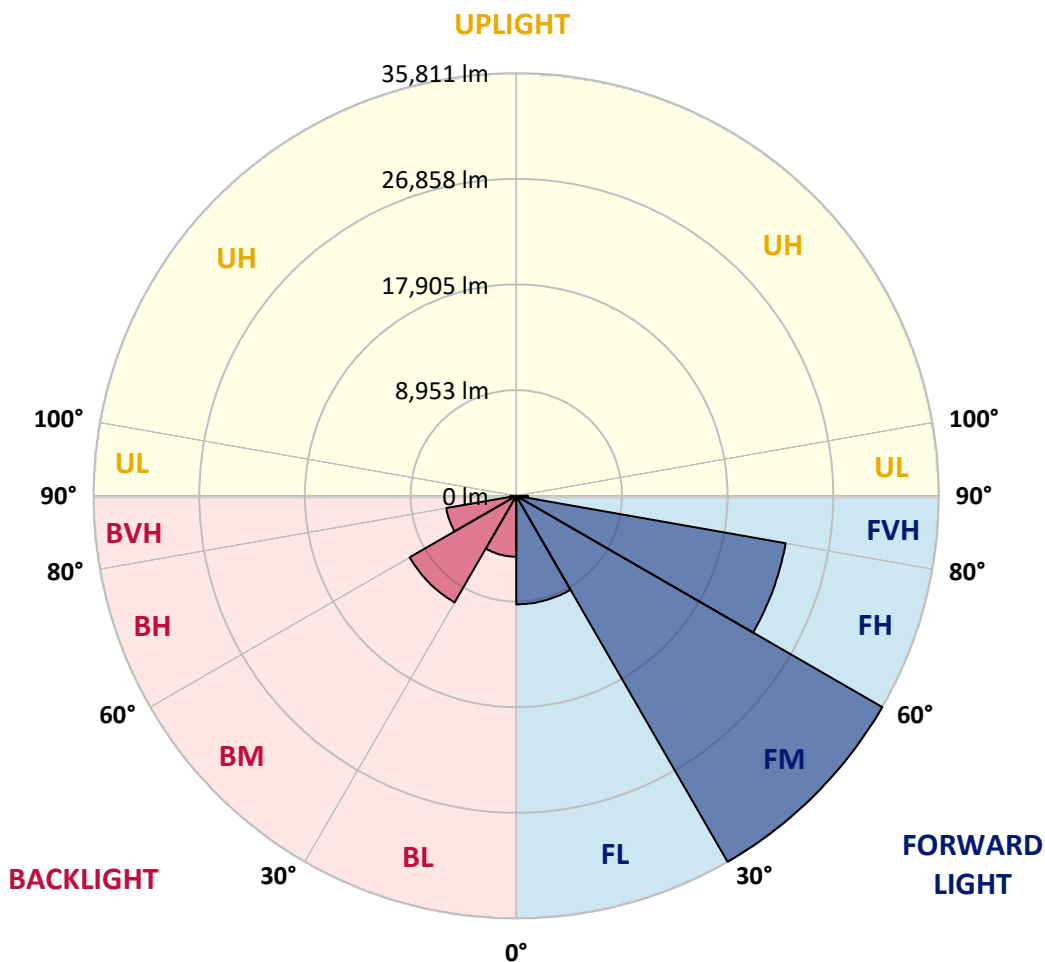


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9192.8	10.1			
FM (30°-60°)	35810.5	39.2			
FH (60°-80°)	23174.4	25.4			G5
FVH (80°-90°)	996.6	1.1			G5
BL (0°-30°)	5158.0	5.6	B5		
BM (30°-60°)	10429.6	11.4	B5		
BH (60°-80°)	6025.9	6.6	B5		G5
BVH (80°-90°)	505.2	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°	16092.9	16092.9	16092.9	16092.9	16092.9	16092.9	16092.9	16092.9	16092.9	16092.9	16092.9
2.5°	16974.1	16904.6	16914.0	16865.1	16791.8	16737.3	16594.5	16440.5	16348.4	16340.9	16209.4
5°	17827.1	17849.7	17855.3	17699.3	17545.3	17370.5	17152.6	16855.7	16613.3	16575.8	16320.2
7.5°	18605.0	18603.1	18591.8	18505.4	18434.0	18174.7	17738.8	17272.8	16878.3	16842.6	16427.3
10°	19401.6	19396.0	19283.3	19138.6	18977.0	18738.4	18364.5	17806.4	17167.6	17120.6	16526.9
12.5°	20269.7	20207.7	20136.3	19961.5	19769.9	19356.5	18963.8	18357.0	17689.9	17605.4	16703.5
15°	20985.6	20921.7	20822.1	20703.7	20502.7	20187.0	19769.9	19050.3	18334.4	18251.7	17100.0
17.5°	21693.9	21663.8	21592.4	21466.6	21312.5	21040.0	20656.7	20046.1	19108.5	19007.1	17759.5
20°	22274.5	22203.1	22150.5	22208.7	22221.9	22020.8	21810.4	21297.5	20264.1	20108.1	18569.3
22.5°	22605.2	22590.1	22877.6	23091.8	23178.2	23223.3	23157.6	22744.2	21808.5	21536.1	19696.6
25°	22919.0	22894.5	23285.3	23820.8	24330.0	24589.3	24764.0	24818.5	23959.9	23713.7	21509.8
27.5°	22928.3	22996.0	23563.4	24461.5	25237.5	26028.6	26866.5	26962.4	26208.9	26013.5	23572.8
30°	22979.1	23009.1	23570.9	24602.5	26218.3	27486.6	28578.2	29117.5	28467.4	28377.2	25844.4
32.5°	22334.6	22374.1	23247.8	24848.6	26958.6	28995.4	30444.0	31244.4	31082.8	30968.2	28268.2
35°	21663.8	21697.7	22712.3	24499.1	27509.1	30365.1	32129.4	33702.0	33997.0	33910.6	30972.0
37.5°	20611.7	20724.4	21787.8	24082.0	27605.0	31372.2	33737.7	36150.2	37040.8	36781.6	33831.7
40°	19469.3	19551.9	20790.1	23208.3	27497.9	32033.6	35317.9	38859.6	39938.1	39799.1	36670.7
42.5°	18026.3	18248.0	19488.1	22092.2	26947.3	32445.0	36779.7	41931.7	43498.7	43684.7	39278.6
45°	16810.6	16805.0	17956.8	20476.4	25949.6	32542.7	38125.0	45037.5	47329.8	46980.3	42726.4
47.5°	15380.8	15439.0	16641.5	18868.0	24478.5	32232.7	39173.4	48708.9	51029.3	50839.6	45554.2
50°	12072.0	12491.0	14768.2	17485.1	22488.7	31368.4	40047.1	52284.5	54499.7	54586.1	48124.5
52.5°	10407.3	10568.9	11825.9	16092.9	20722.5	29917.9	41005.3	56307.2	57853.5	57633.7	51042.5
55°	9740.3	9826.7	10429.8	13592.0	19014.6	27672.6	41465.7	59980.5	60469.0	60433.3	53443.7
57.5°	9257.4	9323.2	9751.5	11343.0	17139.4	24790.3	41076.7	62370.4	63129.5	62896.5	55709.7
60°	8560.3	8612.9	9251.8	10221.3	15209.8	21879.9	38684.9	63454.6	65059.2	64972.7	57712.6
62.5°	8036.1	8126.3	8483.3	9392.7	13562.0	19482.4	35834.6	63116.4	66325.6	66402.6	59242.1
65°	7481.8	7562.6	7865.1	8659.9	12068.2	17906.0	32760.7	61421.6	65743.1	65947.9	59490.1
67.5°	6797.9	6859.9	7218.8	7906.5	10322.7	16329.6	29294.1	58424.7	62511.4	63170.9	57021.2
70°	5937.4	5959.9	6399.6	6867.4	8571.6	13952.8	23292.9	53518.9	57834.8	57847.9	52359.6
72.5°	4725.5	4744.2	4860.7	5215.9	6439.0	11042.4	17120.6	44718.1	52149.2	52053.3	46535.0
75°	3212.9	3378.3	3782.2	4120.5	4644.7	7754.3	10647.8	30128.3	44182.6	44934.2	38224.6
77.5°	2538.4	2553.4	2720.7	3030.7	3483.5	5792.7	5967.4	16669.7	32939.2	34726.0	30045.7
80°	1769.9	1796.2	1706.1	1781.2	2429.4	3964.5	3487.3	7254.5	13736.7	14666.8	18039.4
82.5°	843.6	873.7	1003.3	931.9	1208.1	1685.4	1841.3	3748.4	5933.6	6089.5	7023.4
85°	556.2	556.2	558.0	528.0	704.6	734.7	836.1	1599.0	2897.3	2995.0	2978.1
87.5°	178.5	197.3	191.6	223.6	270.6	244.3	255.5	501.7	993.9	984.5	823.0
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°	16092.9	16092.9	16092.9	16092.9	16092.9	16092.9	16092.9	16092.9	16092.9	16092.9	16092.9
2.5°	16115.4	16038.4	15858.0	15700.2	15544.2	15425.9	15324.4	15189.1	15125.2	15067.0	15189.1
5°	16162.4	16025.2	15702.1	15378.9	15082.0	14864.1	14730.7	14633.0	14544.6	14544.6	14586.0
7.5°	16216.9	16030.9	15568.7	15110.2	14664.9	14416.9	14227.1	14103.1	14031.7	14035.5	14123.8
10°	16252.6	15967.0	15416.5	14798.3	14313.5	13915.2	13729.2	13550.7	13415.4	13334.6	13424.8
12.5°	16293.9	15946.3	15211.7	14514.6	13924.6	13473.7	13086.6	12953.2	12821.7	12720.2	12769.1
15°	16549.4	16025.2	15040.7	14153.8	13469.9	12908.1	12400.8	12156.6	12119.0	12049.5	12066.4
17.5°	16966.6	16237.5	14929.8	13712.3	12923.1	12259.9	11617.3	11301.6	11226.5	11190.8	11209.6
20°	17588.5	16641.5	14963.6	13402.3	12306.9	11564.7	10734.2	10364.1	10114.2	10129.2	10202.5
22.5°	18539.2	17293.5	15147.8	13062.2	11639.9	10666.6	9828.6	9325.0	9073.3	9018.8	9101.4
25°	20053.6	18343.8	15350.7	12737.1	10995.4	9697.1	8768.9	8224.0	7900.8	7880.2	7972.2
27.5°	21994.5	19954.0	15792.2	12455.3	10195.0	8532.1	7609.6	7143.6	6799.8	6758.4	6728.4
30°	23980.5	21742.8	16590.8	12026.9	9261.2	7329.6	6527.3	6162.8	5777.7	5621.7	5655.5
32.5°	26084.9	23409.3	17526.5	11726.3	8216.5	6271.8	5574.7	5227.1	4873.9	4648.4	4595.8
35°	28204.3	25066.5	18313.7	11277.2	7226.3	5431.9	4764.9	4406.0	4097.9	3913.8	3900.6
37.5°	30684.5	26791.4	18945.1	10800.0	6198.5	4774.3	3972.0	3765.3	3616.9	3455.3	3472.2
40°	33168.4	28801.8	19450.5	10010.8	5345.5	4067.8	3380.2	3421.5	3453.4	3318.2	3306.9
42.5°	35231.5	30491.0	19681.6	8988.7	4590.2	3453.4	3119.0	3306.9	3445.9	3357.6	3346.3
45°	37326.4	31913.3	19591.4	7720.4	3962.6	3160.3	3098.3	3290.0	3468.5	3447.8	3438.4
47.5°	39603.7	33777.2	19435.5	6275.6	3513.6	3132.1	3143.4	3233.6	3459.1	3496.7	3481.6
50°	42388.2	35492.6	18512.9	4887.0	3295.6	3177.2	3244.9	3197.9	3389.6	3466.6	3479.7
52.5°	45159.6	36813.5	17278.5	4235.1	3209.2	3220.5	3385.8	3226.1	3310.6	3378.3	3440.3
55°	47297.8	38158.8	15281.2	3842.4	3181.0	3241.1	3425.3	3286.2	3284.3	3284.3	3305.0
57.5°	49486.8	39960.7	13283.9	3588.7	3132.1	3263.7	3378.3	3297.5	3271.2	3233.6	3209.2
60°	51010.5	40627.7	10717.3	3421.5	3081.4	3231.7	3246.8	3235.5	3154.7	3119.0	3090.8
62.5°	52363.4	40990.3	8344.2	3229.8	3011.9	3156.6	3077.7	3053.2	3006.3	2919.8	2934.9
65°	52000.7	40212.4	6358.2	3013.8	2963.0	3066.4	2929.2	2871.0	2874.7	2784.5	2814.6
67.5°	49667.1	36723.3	4565.8	2683.1	2829.6	2887.9	2760.1	2716.9	2653.0	2607.9	2649.3
70°	44952.9	32554.0	3079.5	2226.5	2525.3	2651.1	2566.6	2491.4	2391.9	2361.8	2406.9
72.5°	37835.6	27174.7	2125.0	1790.6	2179.5	2343.0	2311.1	2234.0	2162.6	2235.9	2324.2
75°	31082.8	20104.3	1734.2	1467.4	1676.0	1952.2	2046.1	2068.7	2282.9	2996.9	3070.1
77.5°	22374.1	12462.8	1559.5	1193.1	1337.8	1561.4	1749.3	1826.3	2788.3	2669.9	2664.3
80°	13045.3	7263.9	1189.4	941.3	1082.3	1144.3	1367.8	2143.8	2405.0	2063.0	2012.3
82.5°	5952.4	3205.4	828.6	753.4	751.6	757.2	931.9	2063.0	1845.1	1625.3	1565.1
85°	2188.9	1127.3	503.5	435.9	499.8	434.0	610.6	1512.5	1069.1	1052.2	877.5
87.5°	539.2	231.1	171.0	142.8	116.5	110.9	186.0	497.9	261.2	238.6	229.2
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)