

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: P510441

Luminaire Tested: **CTN-CA10-210-750-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-210-750-U-T4
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: 35069 lumens
Efficiency: N/A
Efficacy: 164.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

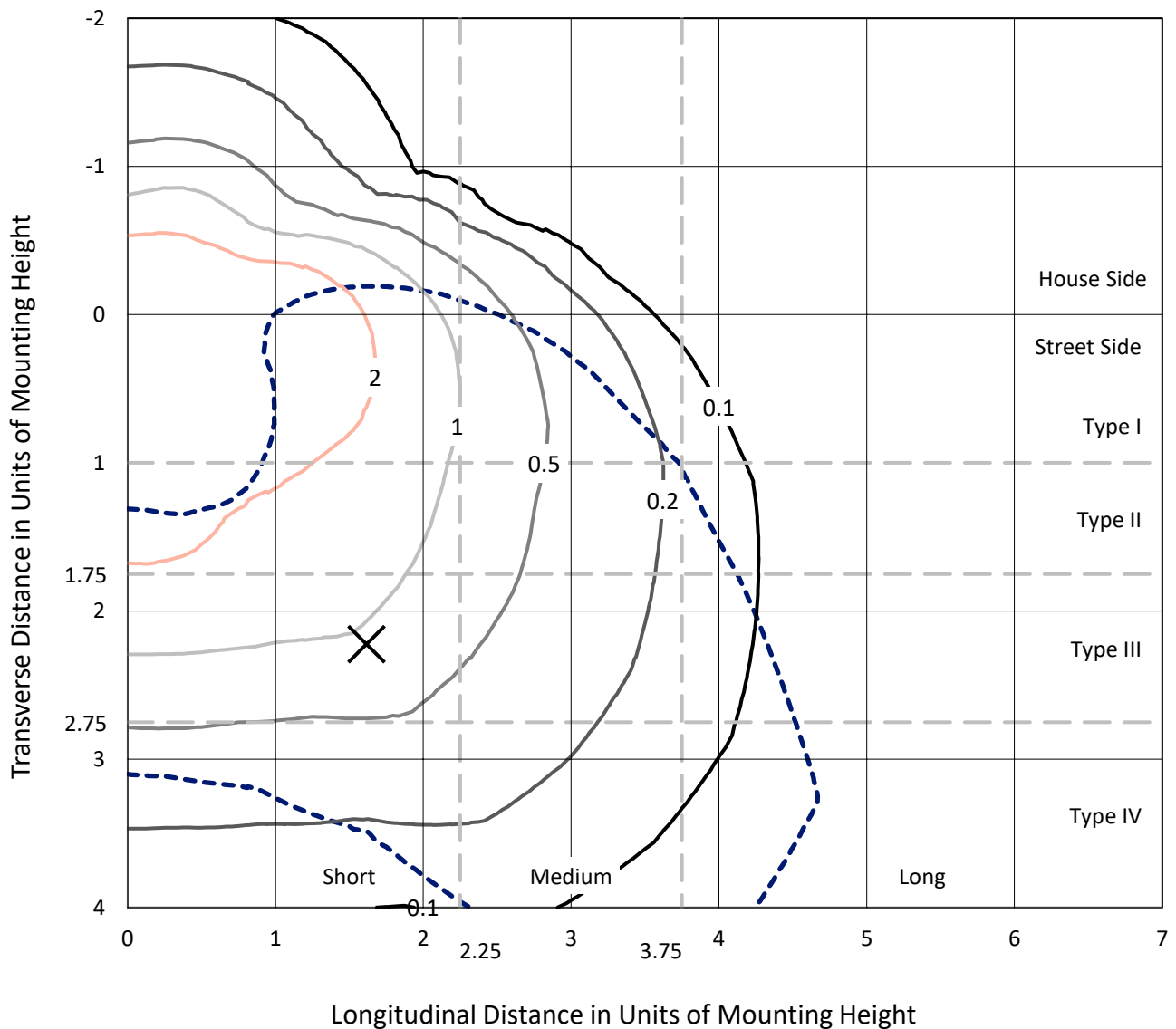
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

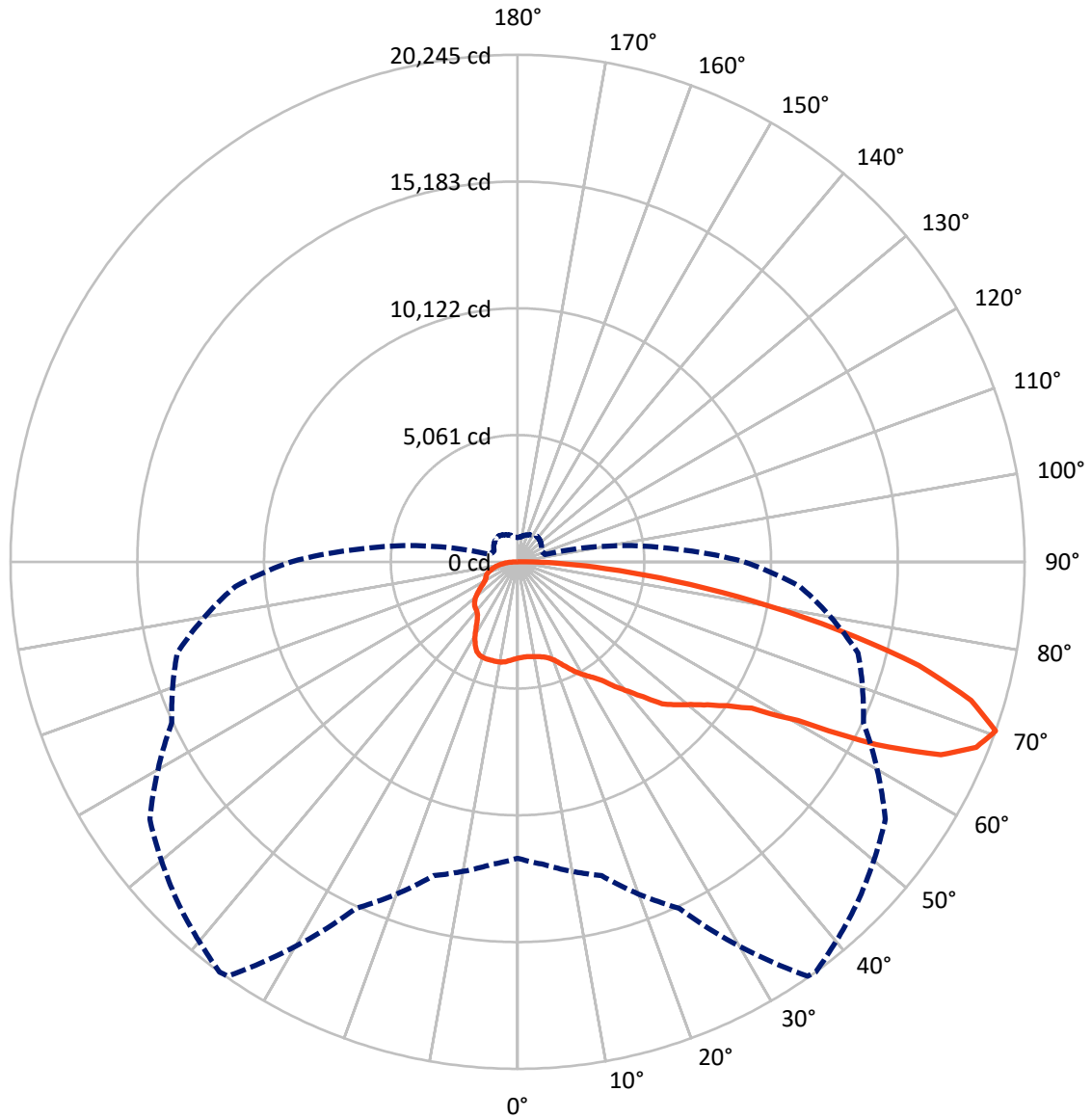
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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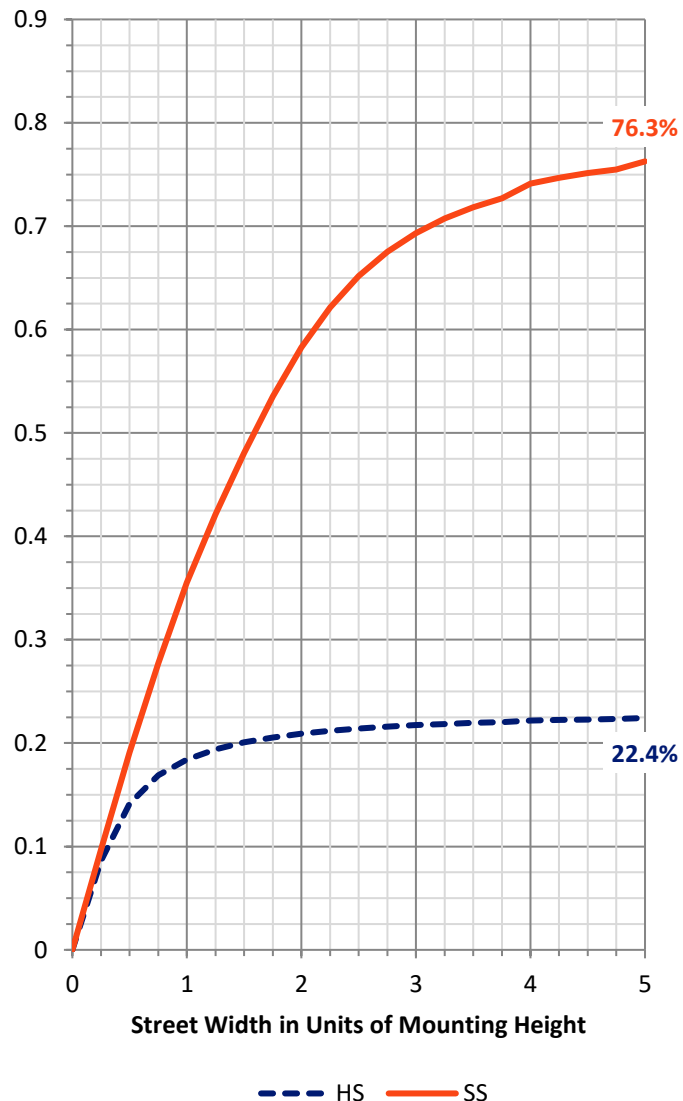
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7990.3	0.0	7990.3
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	27078.8	0.0	27078.8
	% Fixture	77.2	0.0	77.2
Total	Lumens	35069.0	0.0	35069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.1	1.1
10°-20°	1150.4	3.3
20°-30°	2075.2	5.9
30°-40°	3214.0	9.2
40°-50°	4882.1	13.9
50°-60°	6766.9	19.3
60°-70°	8799.4	25.1
70°-80°	6498.2	18.5
80°-90°	1310.5	3.7
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°	35069.0	100.0
0°-180°	35069.0	100.0

Coefficient of Utilization



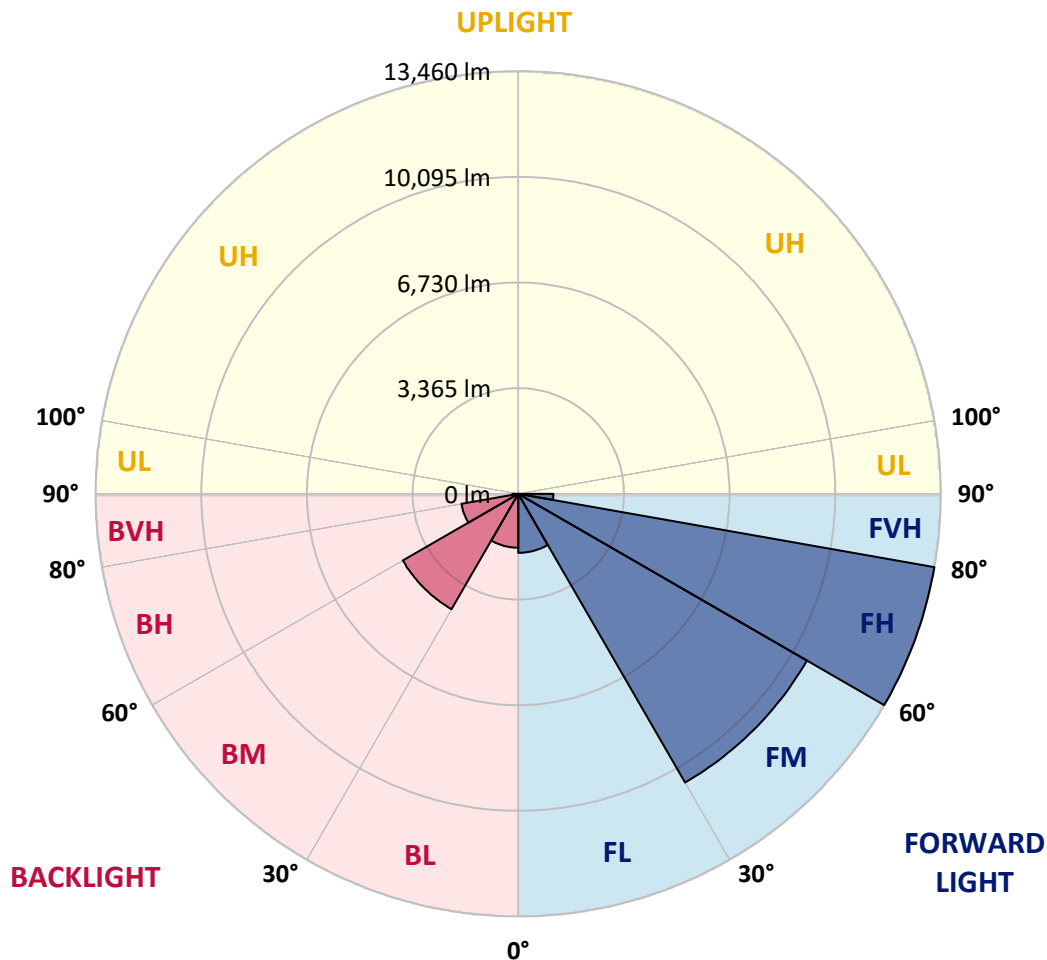
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1880.1	5.4			
FM (30°-60°)	10618.8	30.3			
FH (60°-80°)	13460.3	38.4			G5
FVH (80°-90°)	1119.6	3.2			G5
BL (0°-30°)	1717.7	4.9	B3/2500		
BM (30°-60°)	4244.3	12.1	B3/5000		
BH (60°-80°)	1837.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	190.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3841.1	3841.1	3841.1	3841.1	3841.1	3841.1	3841.1	3841.1	3841.1	3841.1	3841.1
2.5°	3817.9	3812.8	3809.9	3815.7	3817.9	3818.6	3820.0	3818.6	3815.0	3828.0	3844.0
5°	3818.6	3815.7	3809.9	3804.8	3804.8	3804.8	3805.5	3822.2	3829.5	3828.0	3847.6
7.5°	3824.4	3822.2	3811.3	3807.7	3816.4	3819.3	3833.8	3828.8	3836.7	3849.8	3866.5
10°	3825.1	3822.2	3812.8	3820.8	3845.5	3849.8	3856.3	3870.9	3873.8	3889.8	3906.5
12.5°	3832.4	3832.4	3836.0	3853.4	3879.6	3884.7	3909.4	3921.0	3938.4	3946.4	3966.7
15°	3870.9	3870.1	3878.9	3898.5	3940.6	3943.5	3974.0	4008.8	4021.9	4041.5	4074.2
17.5°	3962.4	3966.7	3967.4	3982.0	4032.1	4033.5	4083.6	4116.3	4146.1	4180.9	4255.7
20°	4179.5	4171.5	4162.8	4162.8	4182.4	4192.5	4231.0	4283.3	4344.3	4406.0	4493.9
22.5°	4452.5	4468.5	4436.5	4419.8	4429.2	4417.6	4446.7	4488.8	4559.9	4652.2	4763.3
25°	4778.5	4780.0	4777.8	4710.2	4689.2	4696.5	4720.4	4759.6	4854.0	4927.4	5088.6
27.5°	5096.5	5090.0	5066.8	4995.6	4975.3	4985.4	4984.7	5092.9	5189.5	5283.1	5472.7
30°	5385.5	5403.0	5361.6	5241.8	5243.9	5242.5	5275.9	5415.3	5591.7	5766.0	5960.6
32.5°	5895.3	5842.2	5786.3	5549.6	5506.1	5501.0	5520.6	5728.3	5989.6	6283.7	6517.5
35°	6375.2	6362.1	6307.0	6066.6	5814.7	5810.3	5783.4	6036.1	6403.5	6948.1	7240.0
37.5°	6866.1	6847.2	6792.7	6588.0	6337.5	6313.5	6087.7	6364.3	6861.0	7725.0	8141.1
40°	7451.3	7439.7	7355.5	7093.3	6836.3	6800.0	6565.5	6709.2	7438.2	8759.7	9053.1
42.5°	7964.7	7962.5	7865.9	7622.7	7404.1	7367.8	7168.1	7317.7	8240.6	9773.4	9946.2
45°	8341.5	8398.9	8403.2	8264.5	8113.5	8081.6	8028.6	8234.8	9168.5	10693.4	10668.0
47.5°	8659.5	8708.9	8657.4	8586.2	8534.7	8536.8	8618.9	9028.4	10084.9	11495.0	11297.5
50°	9191.1	9160.6	8892.6	8850.5	8915.9	8954.3	9192.5	9885.2	11134.1	12247.2	11862.4
52.5°	9957.8	9840.9	9315.2	9229.5	9477.1	9491.7	9870.7	10651.2	12182.6	12892.7	12379.4
55°	11007.0	10910.5	10316.5	9920.8	10045.7	10143.7	10677.4	11436.2	13038.7	13499.8	12777.3
57.5°	12558.0	12565.3	12081.0	11343.2	10918.5	11023.0	11439.8	12199.3	13745.9	14008.0	13025.6
60°	13801.1	14031.3	13886.8	13549.9	12939.9	12868.8	12551.5	12994.4	14350.0	14440.1	13263.1
62.5°	14663.0	14767.5	15264.2	15335.4	16032.4	16062.2	14542.5	13926.0	15013.7	14723.3	13313.2
65°	14619.4	14684.0	15469.0	16424.5	18483.8	18576.0	17686.5	15335.4	15468.2	14849.6	13167.2
67.5°	13601.4	13698.7	14696.4	16482.6	19790.0	19755.2	19191.0	17297.3	15617.8	14647.0	12471.6
70°	11833.4	12133.2	12971.2	15257.7	20198.1	20244.6	19204.8	17923.9	15232.3	14074.1	11312.0
72.5°	9753.1	9847.5	10638.9	13197.7	19005.1	18936.8	18417.7	17096.9	14535.2	13038.0	9282.5
75°	7417.2	7417.2	8375.6	10517.6	16320.7	16560.3	16762.2	15484.9	12876.8	10626.6	6320.8
77.5°	4923.7	5100.2	5872.0	7903.7	12918.9	13096.0	13793.1	13199.2	10543.1	7792.6	2887.0
80°	2611.8	2633.6	3461.3	5251.9	9240.4	9574.4	10532.9	10180.0	7583.5	3650.9	729.7
82.5°	913.4	996.9	1521.9	3043.8	6088.4	6296.8	6987.3	6049.2	2678.6	808.2	403.7
85°	453.8	469.8	670.2	1449.3	3427.9	3528.9	4082.2	2356.2	431.3	352.9	274.5
87.5°	218.6	223.6	257.0	518.4	1490.0	1558.9	1650.4	766.8	159.7	134.3	119.1
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°	3841.1	3841.1	3841.1	3841.1	3841.1	3841.1	3841.1	3841.1	3841.1	3841.1	3841.1
2.5°	3847.6	3854.2	3866.5	3870.1	3861.4	3877.4	3892.7	3906.5	3905.7	3910.8	3929.0
5°	3856.3	3870.1	3883.2	3906.5	3929.0	3942.0	3954.4	3966.0	3969.6	3980.5	3991.4
7.5°	3883.2	3897.0	3926.8	3967.4	3968.9	4001.6	4022.6	4026.3	4029.2	4029.2	4054.6
10°	3924.6	3950.0	3997.9	4026.3	4051.7	4040.8	4062.6	4048.8	4038.6	4043.0	4060.4
12.5°	3995.8	4018.3	4087.3	4118.5	4095.2	4090.9	4069.1	4037.9	4002.3	3998.7	4014.6
15°	4107.6	4149.7	4211.4	4241.2	4183.1	4131.5	4058.2	3994.3	3925.3	3899.9	3910.1
17.5°	4287.7	4338.5	4406.0	4385.7	4279.7	4178.0	4056.8	3921.7	3788.1	3695.2	3719.1
20°	4551.2	4589.0	4644.2	4562.1	4407.5	4239.7	4040.8	3827.3	3601.5	3432.3	3412.7
22.5°	4827.9	4885.2	4851.8	4700.1	4497.5	4263.7	4007.4	3690.1	3340.8	3128.8	3096.8
25°	5161.2	5180.0	5064.6	4835.9	4522.9	4225.9	3899.2	3489.7	3074.3	2874.7	2865.2
27.5°	5514.8	5471.9	5257.0	4898.3	4494.6	4114.1	3682.1	3173.1	2833.3	2656.8	2629.2
30°	5914.1	5814.7	5416.0	4904.8	4387.9	3896.3	3407.6	2925.5	2637.2	2460.0	2431.7
32.5°	6428.2	6193.7	5563.4	4837.3	4162.8	3576.8	3078.0	2714.2	2460.8	2282.9	2257.5
35°	7085.3	6689.6	5719.5	4715.3	3885.4	3257.3	2804.9	2534.8	2317.7	2103.5	2069.4
37.5°	7842.7	7381.6	5906.1	4561.4	3581.2	2976.3	2620.5	2420.8	2211.7	1969.2	1928.5
40°	8722.7	8074.3	6193.7	4377.7	3308.1	2773.7	2531.2	2381.6	2152.9	1900.2	1853.7
42.5°	9485.1	8806.9	6535.7	4180.2	3050.4	2605.3	2491.3	2355.5	2115.9	1848.7	1795.7
45°	10190.2	9411.8	6869.7	3940.6	2778.8	2489.8	2443.3	2290.1	2050.5	1784.8	1729.6
47.5°	10763.1	9900.5	7160.1	3720.6	2561.7	2383.8	2338.8	2166.0	1940.9	1707.8	1667.1
50°	11203.1	10267.9	7319.1	3545.6	2332.3	2263.3	2203.7	2025.8	1809.5	1608.3	1573.5
52.5°	11653.3	10636.0	7397.6	3554.3	2118.8	2083.9	2022.9	1870.4	1704.9	1550.2	1512.5
55°	11915.4	10787.0	7314.8	3343.0	1922.7	1882.1	1829.1	1749.9	1651.2	1513.9	1478.4
57.5°	12068.6	10880.7	7062.8	2726.5	1686.7	1648.3	1657.0	1650.4	1569.1	1424.6	1391.9
60°	12179.0	10677.4	6546.6	2004.1	1485.6	1456.6	1528.5	1505.2	1434.8	1322.2	1294.6
62.5°	12089.7	10290.4	5617.2	1506.7	1321.5	1383.2	1446.4	1403.6	1307.7	1205.3	1173.4
65°	11545.1	9530.9	4269.5	1210.4	1268.5	1353.5	1404.3	1335.3	1238.0	1116.8	1102.2
67.5°	10554.0	8154.2	2518.1	1109.5	1228.6	1318.6	1360.7	1269.2	1183.6	1067.4	1049.9
70°	9041.5	6104.4	1124.7	1033.2	1158.9	1248.2	1275.8	1189.4	1096.4	987.5	970.1
72.5°	6729.6	3680.6	758.1	954.1	1055.8	1134.9	1165.4	1073.9	1007.8	958.5	953.4
75°	3737.3	1277.9	699.2	864.1	943.2	1014.4	1052.1	987.5	935.2	867.7	840.1
77.5°	1190.1	543.1	664.4	772.6	872.8	931.6	925.8	828.5	811.8	729.7	722.5
80°	474.9	473.4	614.3	632.4	745.0	794.4	781.3	658.6	680.4	632.4	613.6
82.5°	372.5	433.5	492.3	482.9	579.4	637.5	619.4	483.6	546.8	502.5	459.6
85°	283.2	379.8	315.9	314.4	404.4	473.4	485.0	371.8	372.5	339.1	302.1
87.5°	145.9	140.1	121.3	120.5	135.1	192.4	236.0	211.3	167.0	125.6	120.5
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)