

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: 768833_350MP

Luminaire Tested: **GSM-AM-350-MP-MT-AS-FG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 768833_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GSM-AM-350-MP-MT-AS-FG
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-VERTICAL LAMP-SQUARE DISTRIBUTION
Light Source: 350 WATT PULSE-START CLEAR ED-37 VBU BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 37000 (1 lamp)
Luminaire Lumens: 27066.2 lumens
Efficiency: 73.2%
Efficacy: 68.2 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G3

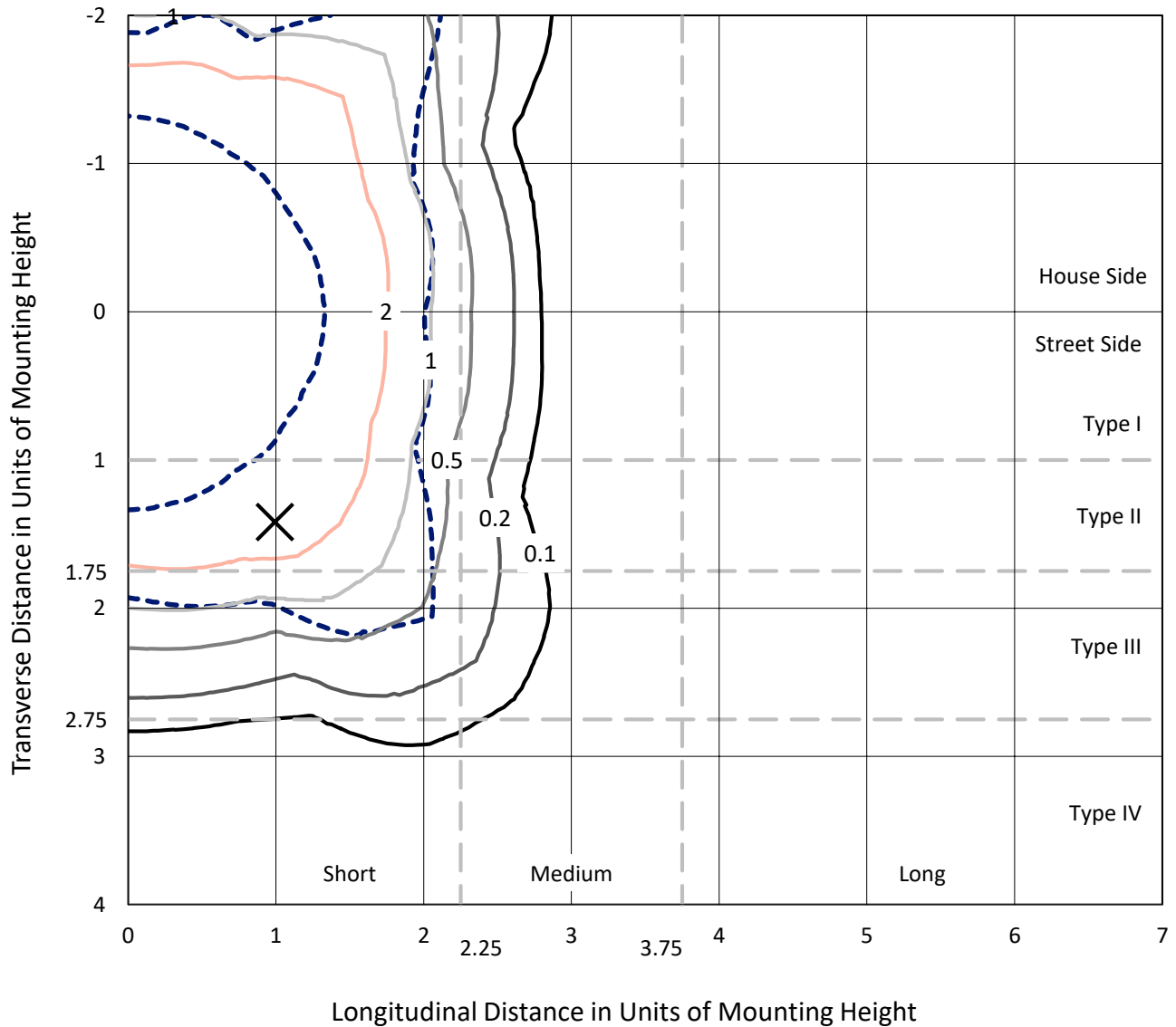
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

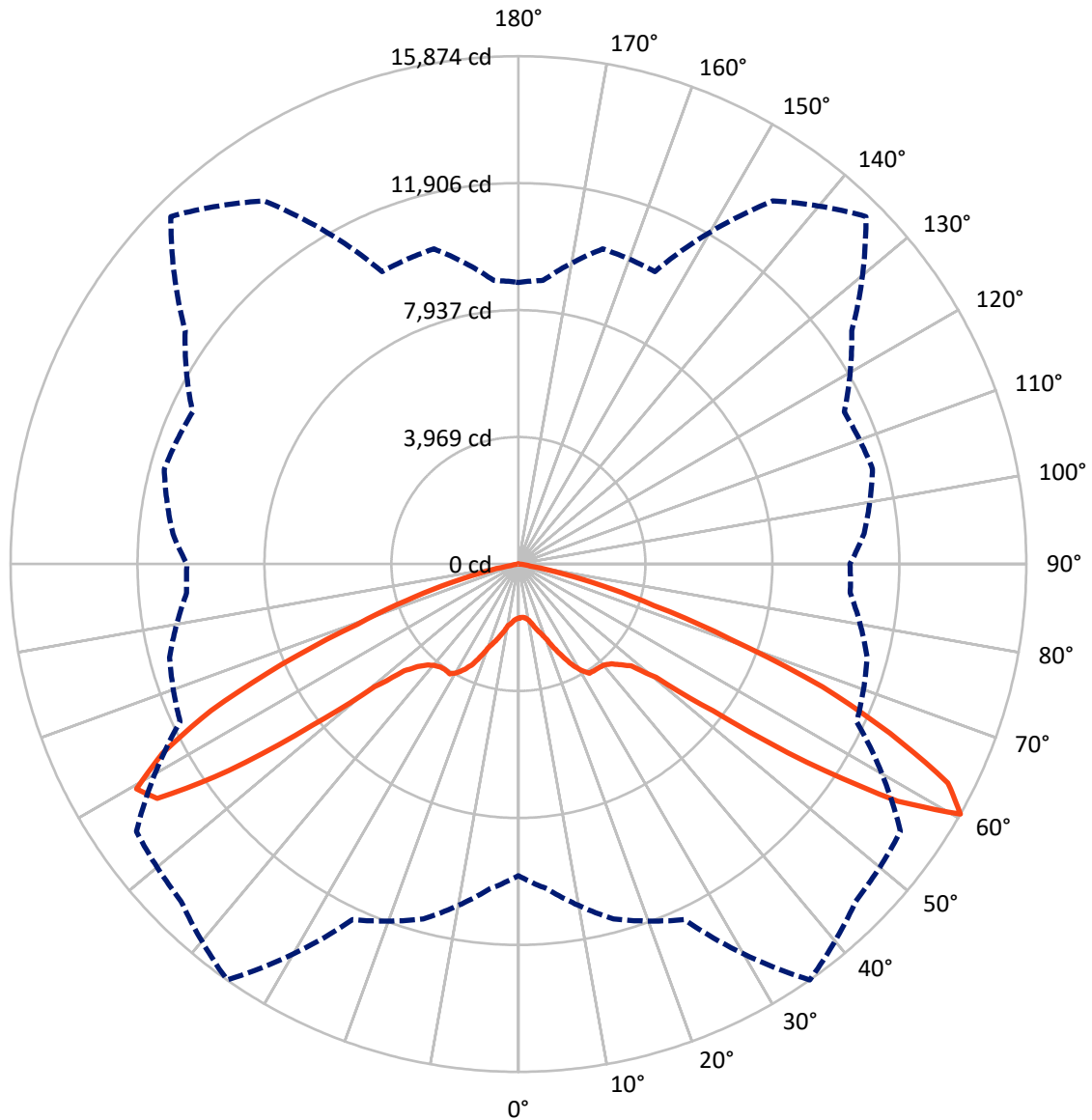
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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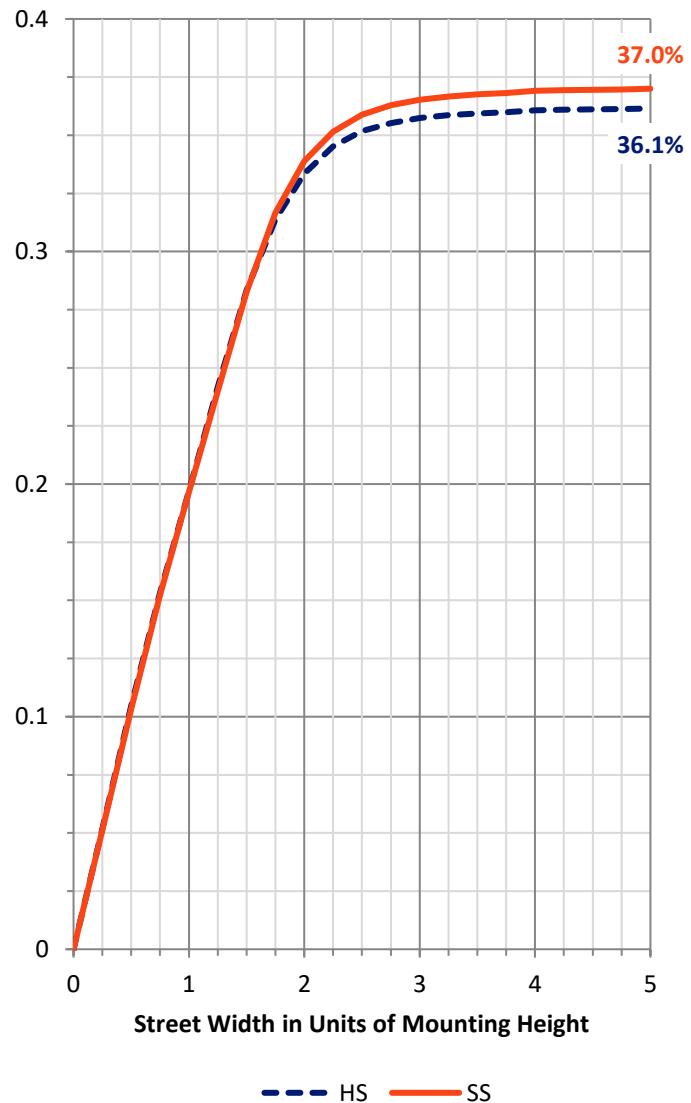
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13372.8	0.0	13372.8
	% Lamp	36.1	0.0	36.1
Street Side	Lumens	13693.4	0.0	13693.4
	% Lamp	37.0	0.0	37.0
Total	Lumens	27066.2	0.0	27066.2
	% Lamp	73.2	0.0	73.2

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	170.0	0.6	0.5
10°-20°	656.3	2.4	1.8
20°-30°	1554.9	5.7	4.2
30°-40°	2543.0	9.4	6.9
40°-50°	3669.9	13.6	9.9
50°-60°	8578.9	31.7	23.2
60°-70°	8246.1	30.5	22.3
70°-80°	1600.6	5.9	4.3
80°-90°	46.5	0.2	0.1
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	27066.2	100.0	73.2
0°-180°	27066.2	100.0	73.2

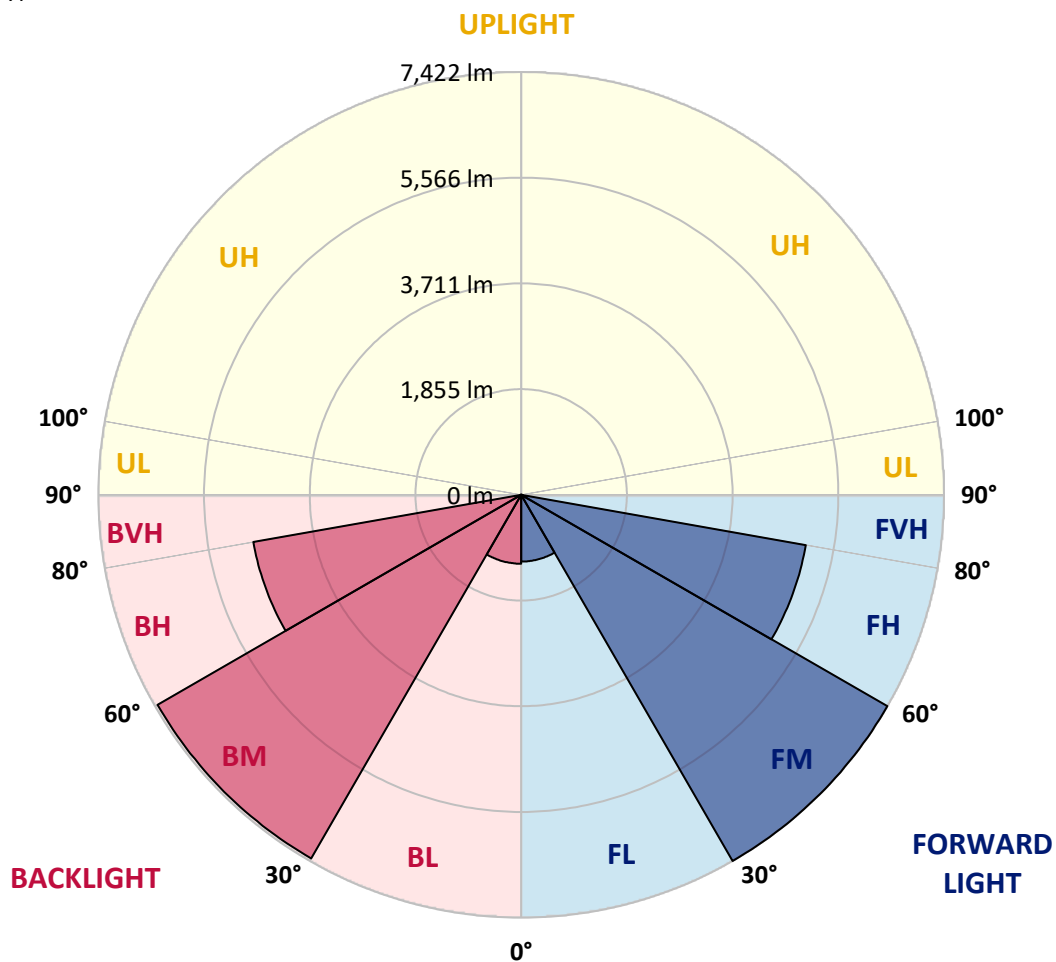


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1171.6	3.2			
FM (30°-60°)	7421.6	20.1			
FH (60°-80°)	5073.2	13.7			G3/7500
FVH (80°-90°)	27.0	0.1			G1/100
BL (0°-30°)	1209.6	3.3	B3/2500		
BM (30°-60°)	7370.2	19.9	B4/8500		
BH (60°-80°)	4773.5	12.9	B4/5000		G2/5000
BVH (80°-90°)	19.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	9933.8	26.8			

BUG Rating: B4-U0-G3
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8
2.5°	1679.4	1673.2	1658.8	1673.2	1673.2	1673.2	1679.4	1686.6	1679.4	1686.6	1701.0
5°	1666.0	1673.2	1673.2	1679.4	1679.4	1679.4	1701.0	1707.1	1714.3	1721.5	1721.5
7.5°	1693.8	1693.8	1686.6	1686.6	1714.3	1728.7	1756.5	1769.8	1769.8	1784.2	1790.4
10°	1777.0	1769.8	1769.8	1769.8	1784.2	1804.8	1839.7	1867.5	1895.2	1923.0	1929.1
12.5°	1915.8	1908.6	1908.6	1923.0	1929.1	1985.7	2047.3	2102.8	2145.0	2158.3	2158.3
15°	2137.8	2145.0	2117.2	2124.4	2117.2	2145.0	2193.3	2241.6	2269.3	2297.1	2297.1
17.5°	2207.7	2207.7	2200.5	2228.2	2283.7	2346.4	2422.5	2505.7	2568.4	2603.4	2609.5
20°	2512.9	2505.7	2498.5	2512.9	2505.7	2568.4	2679.4	2776.0	2831.5	2838.7	2845.9
22.5°	2873.7	2866.5	2873.7	2873.7	2845.9	2922.0	3047.4	3151.2	3193.3	3206.7	3213.9
25°	3234.4	3206.7	3186.1	3221.1	3193.3	3248.8	3387.6	3478.0	3498.6	3511.9	3505.7
27.5°	3511.9	3498.6	3470.8	3533.5	3546.9	3561.2	3720.6	3761.7	3741.1	3733.9	3685.6
30°	3748.3	3741.1	3733.9	3803.8	3852.1	3894.2	3970.3	3977.5	3914.8	3844.9	3824.4
32.5°	3901.4	3887.1	3922.0	3998.1	4067.9	4164.6	4157.4	4144.0	4012.4	3907.6	3879.9
35°	4067.9	4025.8	4060.7	4129.6	4088.5	4185.1	4220.1	4255.0	4129.6	4018.6	4018.6
37.5°	4262.2	4206.7	4185.1	4178.9	4101.9	4151.2	4247.8	4289.9	4247.8	4157.4	4178.9
40°	4484.2	4421.5	4351.6	4275.6	4144.0	4116.2	4310.5	4380.4	4373.2	4289.9	4296.1
42.5°	4706.2	4643.5	4574.6	4428.7	4268.4	4178.9	4421.5	4525.3	4497.6	4414.3	4380.4
45°	4970.3	4900.4	4893.2	4657.9	4491.4	4380.4	4622.9	4726.8	4691.8	4580.8	4560.2
47.5°	5122.4	5087.5	5177.9	4983.7	4754.5	4699.0	5032.0	5101.9	4942.6	4768.9	4754.5
50°	5427.7	5414.3	5594.2	5615.8	5573.6	5490.4	6080.3	6100.9	5664.1	5331.1	5323.9
52.5°	6969.4	6947.8	7197.5	7309.6	7614.8	7066.0	7607.6	7607.6	7253.0	7086.5	7031.0
55°	9301.4	9356.9	9752.6	9669.3	10945.8	9516.2	10272.6	9876.9	9627.2	9620.0	9551.1
57.5°	10120.5	10446.3	11196.6	11383.7	13986.0	12515.2	12737.2	11182.2	10890.3	10703.3	10544.0
60°	9745.4	10189.4	11487.5	12265.5	15874.0	14910.0	14577.0	11668.4	11286.0	10411.4	10363.1
62.5°	7816.2	8169.8	9530.6	10662.2	15069.3	15041.5	13375.5	10092.8	9697.1	8544.9	8461.7
65°	5594.2	5788.4	6690.8	7628.2	12765.0	13431.0	11022.9	7621.0	7461.7	6649.7	6579.8
67.5°	3844.9	3963.1	4345.4	4914.8	10259.3	11272.7	8510.0	4970.3	4865.5	4345.4	4240.6
70°	1929.1	1936.3	2068.9	2533.5	7017.7	8808.1	5747.3	2457.4	2152.2	1825.3	1762.6
72.5°	777.0	798.6	909.6	1617.7	4435.9	6100.9	3768.9	1103.8	846.9	693.7	673.2
75°	430.6	458.4	513.9	1172.7	2658.9	3332.1	2443.0	770.8	513.9	402.9	381.3
77.5°	277.5	333.0	305.2	569.4	1172.7	1305.3	1255.9	471.7	319.6	236.4	236.4
80°	111.0	131.6	159.3	264.1	367.9	464.6	291.9	187.1	145.9	103.8	103.8
82.5°	42.1	48.3	55.5	103.8	97.6	131.6	83.2	48.3	48.3	27.7	27.7
85°	0.0	0.0	7.2	14.4	20.6	27.7	14.4	7.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8
2.5°	1701.0	1701.0	1707.1	1707.1	1707.1	1714.3	1707.1	1714.3	1714.3	1721.5
5°	1728.7	1742.1	1742.1	1742.1	1756.5	1769.8	1777.0	1790.4	1797.6	1804.8
7.5°	1790.4	1797.6	1812.0	1832.5	1853.1	1867.5	1895.2	1901.4	1908.6	1901.4
10°	1929.1	1943.5	1950.7	1957.9	1964.1	1950.7	1957.9	1978.5	1978.5	1971.3
12.5°	2158.3	2152.2	2137.8	2110.0	2124.4	2145.0	2145.0	2152.2	2152.2	2152.2
15°	2304.3	2304.3	2318.7	2304.3	2324.8	2346.4	2359.8	2359.8	2380.3	2387.5
17.5°	2616.7	2596.2	2581.8	2540.7	2540.7	2540.7	2512.9	2512.9	2478.0	2485.2
20°	2853.1	2853.1	2838.7	2803.8	2790.4	2748.3	2742.1	2755.5	2734.9	2720.5
22.5°	3199.5	3193.3	3165.6	3137.8	3116.2	3082.3	3033.0	2999.1	2964.1	2943.6
25°	3498.6	3484.2	3463.6	3450.2	3450.2	3435.9	3310.5	3234.4	3206.7	3193.3
27.5°	3678.4	3720.6	3706.2	3741.1	3706.2	3692.8	3539.7	3456.4	3400.9	3387.6
30°	3789.4	3901.4	3887.1	3949.7	4012.4	3901.4	3720.6	3616.7	3533.5	3498.6
32.5°	3852.1	3970.3	4025.8	4095.7	4268.4	4046.4	3852.1	3741.1	3546.9	3526.3
35°	3977.5	3998.1	4116.2	4088.5	4247.8	4018.6	3914.8	3776.1	3609.6	3609.6
37.5°	4129.6	4081.3	4123.4	4088.5	4164.6	4033.0	3935.4	3894.2	3761.7	3776.1
40°	4227.2	4192.3	4178.9	4116.2	4136.8	4109.1	4074.1	4101.9	4005.2	3998.1
42.5°	4345.4	4331.1	4303.3	4192.3	4220.1	4240.6	4310.5	4380.4	4275.6	4262.2
45°	4519.1	4511.9	4477.0	4400.9	4400.9	4491.4	4608.6	4713.4	4650.7	4595.2
47.5°	4713.4	4733.9	4921.0	4830.6	4747.3	4893.2	5101.9	5177.9	5261.2	5192.3
50°	5316.7	5455.4	6052.6	5989.9	5615.8	5906.6	6163.6	6080.3	5989.9	5872.7
52.5°	7142.0	7350.7	8016.7	8301.4	7829.6	8210.9	7933.4	7628.2	7433.9	7315.7
55°	9808.1	9793.7	10126.7	10605.6	10370.3	11126.7	9995.1	9654.9	9467.9	9370.2
57.5°	10960.2	11210.0	11293.2	12341.6	13362.1	13458.7	10821.5	10564.5	9669.3	9523.4
60°	10842.0	11459.7	11237.7	12716.7	15361.2	13854.4	10085.6	10196.6	8898.5	8801.9
62.5°	8968.4	9932.4	9815.3	11779.4	15583.2	12598.5	8517.2	9127.7	7454.5	7454.5
65°	6920.0	7517.2	7433.9	9876.9	14187.4	10647.8	6656.9	7357.9	6170.8	6302.3
67.5°	4469.8	4636.3	4678.4	7593.2	11869.8	8038.2	4095.7	4546.9	3894.2	3998.1
70°	1762.6	1880.8	2006.2	5198.5	9425.8	5366.0	1888.0	2130.6	1728.7	1790.4
72.5°	666.0	1027.8	1027.8	3768.9	6690.8	3672.2	1041.1	1033.9	708.1	708.1
75°	423.4	610.5	693.7	2561.2	3324.9	2228.2	617.7	569.4	416.2	388.5
77.5°	277.5	291.9	430.6	1194.3	1318.6	1027.8	360.7	277.5	242.6	222.0
80°	90.4	138.8	180.9	270.3	381.3	229.2	187.1	131.6	97.6	97.6
82.5°	27.7	34.9	48.3	62.7	90.4	62.7	55.5	27.7	14.4	14.4
85°	0.0	0.0	0.0	0.0	14.4	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)