

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: 768803_350MP

Luminaire Tested: **GSM-AM-350-MP-MT-3V-FG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 768803_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-3V-FG
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-VERTICAL LAMP-TYPE 3 DISTRIBUTION
Light Source: 350 WATT PULSE-START CLEAR ED-37 VBU BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 37000 (1 lamp)
Luminaire Lumens: 26872.6 lumens
Efficiency: 72.6%
Efficacy: 67.7 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G4

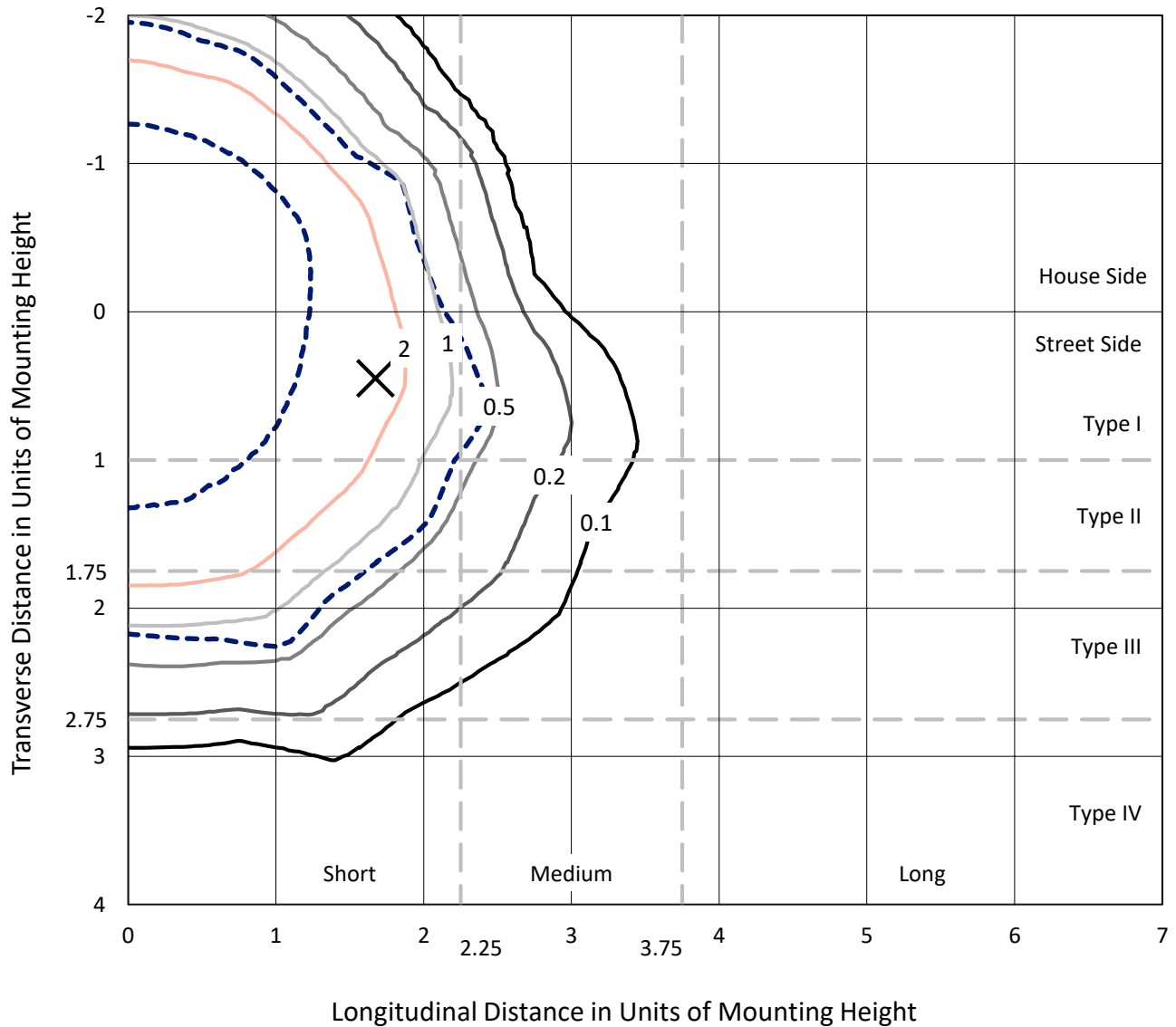
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

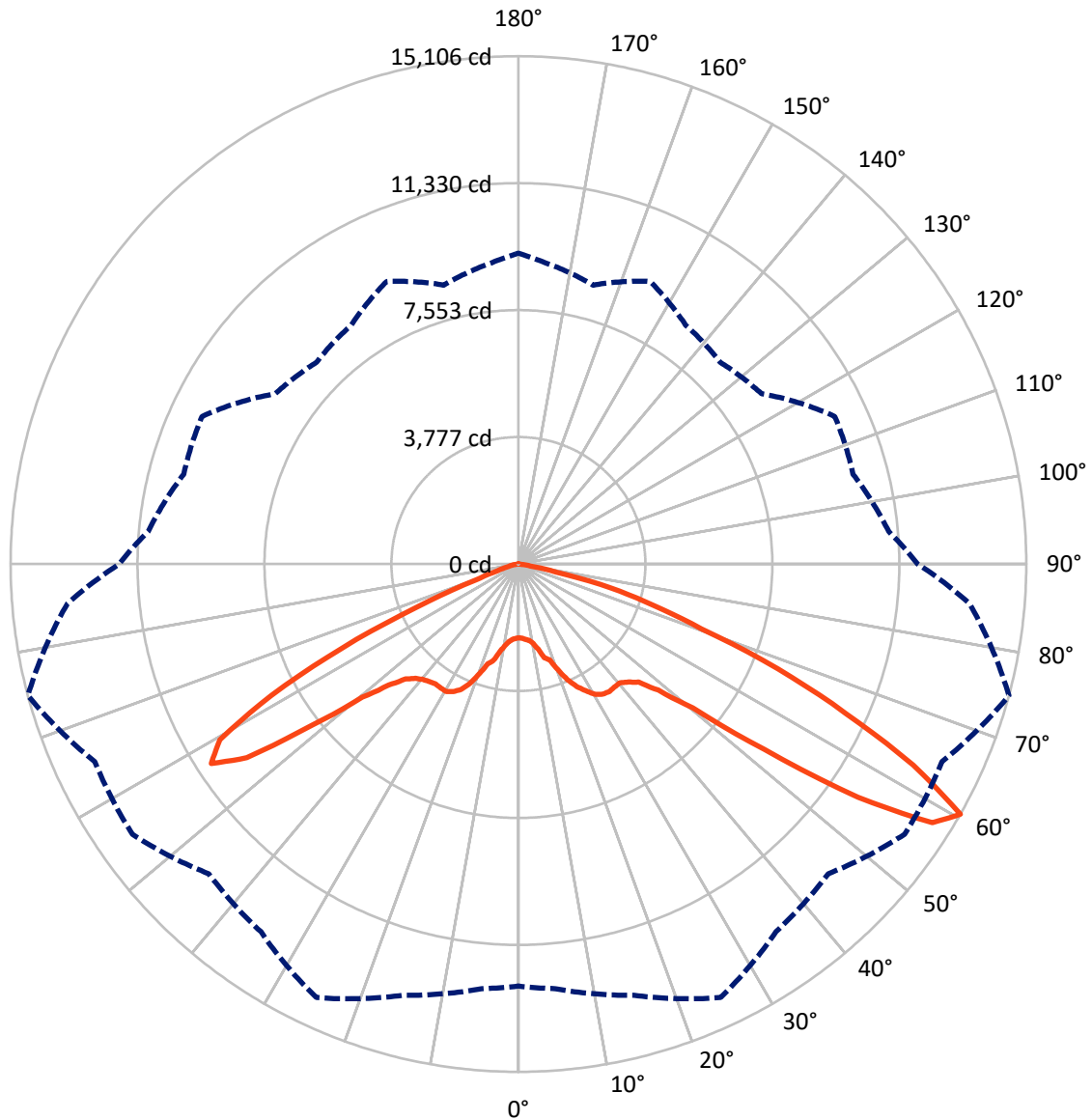
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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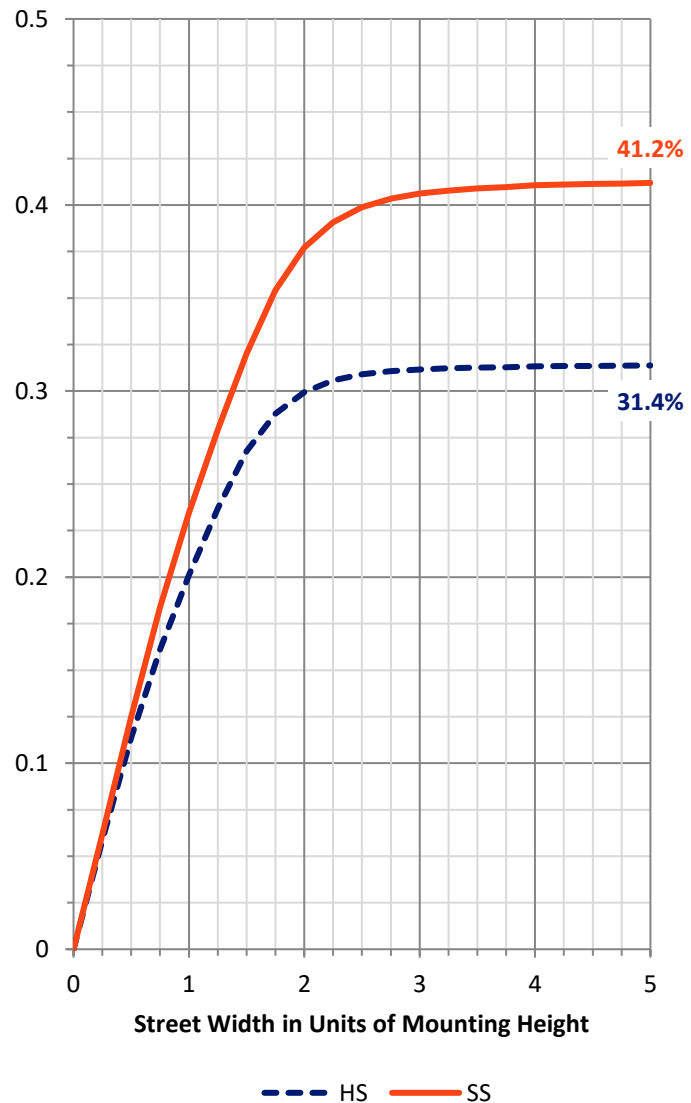
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11633.5	0.0	11633.5
	% Lamp	31.4	0.0	31.4
Street Side	Lumens	15239.2	0.0	15239.2
	% Lamp	41.2	0.0	41.2
Total	Lumens	26872.6	0.0	26872.6
	% Lamp	72.6	0.0	72.6

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	220.8	0.8	0.6
10°-20°	813.0	3.0	2.2
20°-30°	1799.3	6.7	4.9
30°-40°	2778.2	10.3	7.5
40°-50°	3888.8	14.5	10.5
50°-60°	8699.3	32.4	23.5
60°-70°	7262.7	27.0	19.6
70°-80°	1351.2	5.0	3.7
80°-90°	59.4	0.2	0.2
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°	26872.6	100.0	72.6
0°-180°	26872.6	100.0	72.6

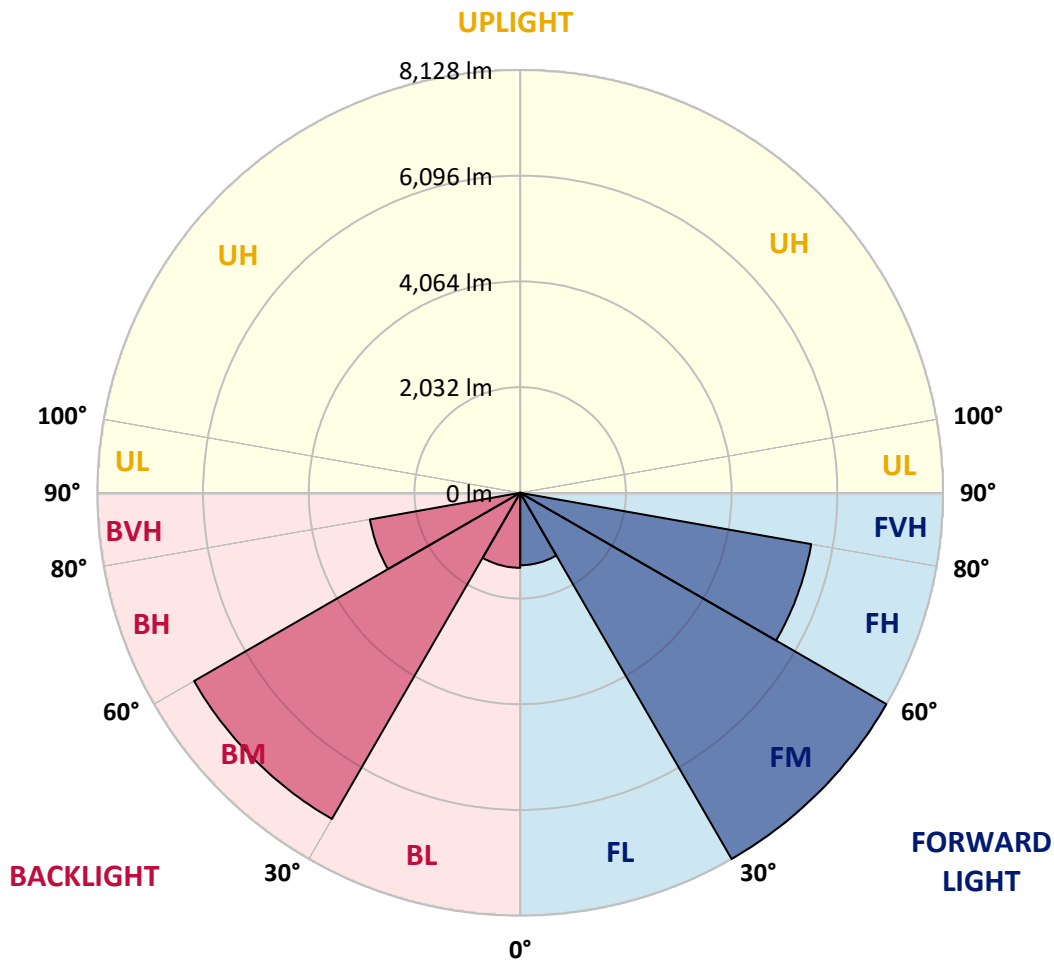


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1391.6	3.8			
FM	(30°-60°)	8127.5	22.0			
FH	(60°-80°)	5680.5	15.4			G3/7500
FVH	(80°-90°)	39.6	0.1			G1/100
BL	(0°-30°)	1441.6	3.9	B3/2500		
BM	(30°-60°)	7238.7	19.6	B4/8500		
BH	(60°-80°)	2933.4	7.9	B4/5000		G4/5000
BVH	(80°-90°)	19.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		10127.4	27.4			

BUG Rating: B4-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2
2.5°	2205.6	2205.6	2198.4	2205.6	2205.6	2205.6	2212.8	2212.8	2212.8	2220.0	2212.8
5°	2262.1	2240.6	2262.1	2254.9	2240.6	2240.6	2247.8	2240.6	2254.9	2254.9	2247.8
7.5°	2262.1	2276.5	2269.3	2276.5	2276.5	2276.5	2262.1	2283.7	2289.9	2297.1	2297.1
10°	2346.4	2353.6	2340.2	2346.4	2360.8	2360.8	2375.2	2402.9	2402.9	2402.9	2417.3
12.5°	2473.9	2481.1	2466.7	2473.9	2481.1	2517.0	2530.4	2566.4	2594.1	2615.7	2630.1
15°	2700.0	2707.2	2692.8	2686.6	2707.2	2700.0	2770.9	2856.2	2898.3	2912.7	2926.1
17.5°	2756.5	2756.5	2749.3	2756.5	2792.5	2834.6	2869.6	2947.7	2989.8	3011.4	3025.8
20°	3025.8	3025.8	2997.0	3025.8	3075.1	3075.1	3153.2	3279.6	3357.7	3392.7	3399.9
22.5°	3392.7	3379.3	3364.9	3407.1	3428.7	3407.1	3499.6	3654.8	3739.1	3767.8	3767.8
25°	3732.9	3725.7	3732.9	3753.4	3753.4	3732.9	3831.6	3979.6	4036.1	4057.7	4072.1
27.5°	4057.7	4050.5	4079.2	4121.4	4028.9	3979.6	4092.6	4220.1	4269.4	4283.8	4248.8
30°	4354.7	4318.7	4361.9	4446.2	4291.0	4212.9	4340.3	4474.9	4502.7	4439.0	4375.2
32.5°	4595.2	4531.5	4552.0	4644.5	4474.9	4411.2	4538.7	4651.7	4615.8	4524.3	4446.2
35°	4721.6	4693.9	4686.7	4721.6	4559.2	4531.5	4630.1	4743.2	4658.9	4531.5	4467.8
37.5°	4806.9	4778.1	4743.2	4708.2	4601.4	4502.7	4615.8	4686.7	4644.5	4559.2	4559.2
40°	4920.0	4891.2	4814.1	4721.6	4630.1	4509.9	4644.5	4693.9	4644.5	4622.9	4615.8
42.5°	5075.2	5047.4	4983.7	4834.7	4877.8	4708.2	4814.1	4969.3	4799.7	4799.7	4885.0
45°	5301.3	5266.3	5174.9	5103.9	5146.1	4983.7	5124.5	5231.4	5011.4	5224.2	5308.5
47.5°	5654.8	5627.1	5457.5	5337.2	5414.3	5365.0	5457.5	5556.2	5605.5	5916.9	5767.9
50°	5824.4	5767.9	5698.0	5662.0	5888.1	5895.3	6100.9	6440.1	6729.9	6708.3	6666.2
52.5°	6460.6	6517.1	6616.8	6956.0	7337.3	7592.2	8051.6	8828.6	9154.4	8913.9	8476.1
55°	9444.2	9754.6	9748.5	10320.9	10264.4	10567.6	11034.2	11444.3	12250.1	11536.8	10547.1
57.5°	11777.3	11876.0	12038.4	12836.9	12342.6	12207.9	12993.2	13239.8	14519.4	13325.1	11967.4
60°	12554.3	12681.7	13283.0	14229.6	13352.9	13028.1	14017.9	13904.8	15106.3	13465.9	11876.0
62.5°	10900.6	11034.2	11896.5	13225.4	11896.5	11706.4	12589.2	12052.7	13183.3	11316.9	9734.1
65°	7619.9	7867.6	8786.5	10511.1	9231.5	9316.8	10179.1	9613.8	10687.9	8729.9	7337.3
67.5°	5061.8	5357.8	6114.2	8093.7	6892.3	7125.6	7882.0	7401.0	8334.2	6093.7	4750.4
70°	2770.9	2863.4	3259.1	5435.9	4439.0	4764.8	5379.4	5040.2	5767.9	3760.6	2402.9
72.5°	891.1	891.1	1110.0	3018.6	2692.8	3159.4	3937.4	3512.9	4198.5	2630.1	1434.8
75°	481.0	473.8	614.6	1979.5	1943.5	2289.9	2841.8	2424.5	2849.0	1809.9	982.6
77.5°	282.6	282.6	395.7	1208.7	1130.6	1392.6	1350.5	1314.5	1124.4	982.6	572.5
80°	127.4	134.6	169.6	297.0	395.7	565.3	353.6	381.3	360.7	375.1	261.1
82.5°	56.5	63.7	63.7	105.9	120.2	113.1	127.4	141.8	98.7	98.7	91.5
85°	14.4	14.4	7.2	21.6	14.4	14.4	34.9	42.1	21.6	7.2	14.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2	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°	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2	2191.2
2.5°	2220.0	2212.8	2220.0	2220.0	2227.2	2205.6	2212.8	2212.8	2205.6	2205.6
5°	2262.1	2247.8	2262.1	2276.5	2276.5	2297.1	2311.5	2325.9	2325.9	2318.7
7.5°	2311.5	2325.9	2353.6	2360.8	2375.2	2382.4	2389.6	2389.6	2382.4	2389.6
10°	2431.7	2466.7	2495.4	2495.4	2495.4	2495.4	2488.2	2481.1	2473.9	2488.2
12.5°	2643.4	2665.0	2707.2	2721.6	2707.2	2714.4	2714.4	2707.2	2700.0	2700.0
15°	2947.7	2962.1	2969.2	2947.7	2969.2	2962.1	2947.7	2962.1	2933.3	2940.5
17.5°	3053.5	3102.9	3146.0	3138.8	3138.8	3096.7	3075.1	3075.1	3075.1	3067.9
20°	3421.5	3449.2	3485.2	3449.2	3435.9	3392.7	3372.1	3372.1	3364.9	3364.9
22.5°	3789.4	3817.2	3817.2	3767.8	3746.2	3711.3	3647.6	3633.2	3612.6	3605.4
25°	4085.4	4099.8	4092.6	4022.7	4015.5	3951.8	3888.1	3831.6	3802.8	3789.4
27.5°	4248.8	4255.0	4234.4	4156.3	4149.1	4079.2	4022.7	3979.6	3888.1	3888.1
30°	4333.1	4354.7	4311.5	4248.8	4241.6	4170.7	4114.2	4008.3	3873.7	3873.7
32.5°	4361.9	4354.7	4347.5	4262.2	4276.6	4198.5	4185.1	4015.5	3895.3	3930.2
35°	4404.0	4333.1	4340.3	4234.4	4255.0	4185.1	4156.3	4079.2	3993.9	4015.5
37.5°	4460.6	4382.4	4382.4	4276.6	4298.2	4234.4	4185.1	4156.3	4092.6	4099.8
40°	4524.3	4453.4	4396.8	4354.7	4361.9	4318.7	4234.4	4248.8	4185.1	4198.5
42.5°	4806.9	4573.6	4488.3	4453.4	4418.4	4425.6	4333.1	4389.6	4312.6	4325.9
45°	5111.1	4792.5	4644.5	4552.0	4495.5	4502.7	4453.4	4502.7	4467.8	4425.6
47.5°	5619.9	5280.7	4920.0	4728.8	4693.9	4757.6	4708.2	4772.0	4728.8	4721.6
50°	6573.7	6100.9	5506.8	5450.3	5612.7	5740.1	5880.9	6001.2	5662.0	5641.5
52.5°	8376.4	7769.0	7076.2	7506.9	7811.1	7945.7	8214.0	8348.6	8235.6	8299.3
55°	10497.7	9925.2	9132.8	9592.2	9811.2	9726.9	10200.7	10355.9	10264.4	10363.1
57.5°	11613.9	10893.4	10419.6	10341.5	10101.0	9918.1	10454.6	9741.3	10292.2	10645.7
60°	11055.8	10306.6	10384.7	8828.6	8489.4	8673.4	9274.7	8589.1	8999.2	9245.9
62.5°	9012.6	8327.1	8843.0	6595.2	6418.5	6708.3	7344.5	7189.3	7619.9	7719.6
65°	6503.8	5817.2	6340.4	4156.3	4192.3	4566.4	4962.1	5372.2	5704.2	5740.1
67.5°	3880.9	3286.8	3556.1	2333.1	2509.8	2792.5	3046.3	3315.6	3449.2	3492.4
70°	1625.9	1357.7	1463.6	1173.7	1301.2	1407.0	1505.7	1591.0	1569.4	1597.2
72.5°	805.8	650.6	657.8	621.8	650.6	678.3	699.9	742.1	714.3	707.1
75°	544.7	437.8	395.7	388.5	417.3	402.9	402.9	402.9	410.1	381.3
77.5°	346.4	297.0	247.7	261.1	261.1	261.1	240.5	218.9	211.7	211.7
80°	218.9	191.2	155.2	162.4	162.4	141.8	155.2	127.4	113.1	113.1
82.5°	98.7	85.3	56.5	49.3	63.7	63.7	49.3	49.3	42.1	42.1
85°	0.0	7.2	0.0	7.2	7.2	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	7.2	7.2	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)