

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: 768839_350MP

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 768839_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-28 VBU BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 37000 (1 lamp)
Luminaire Lumens: 26143.1 lumens
Efficiency: 70.7%
Efficacy: 65.9 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

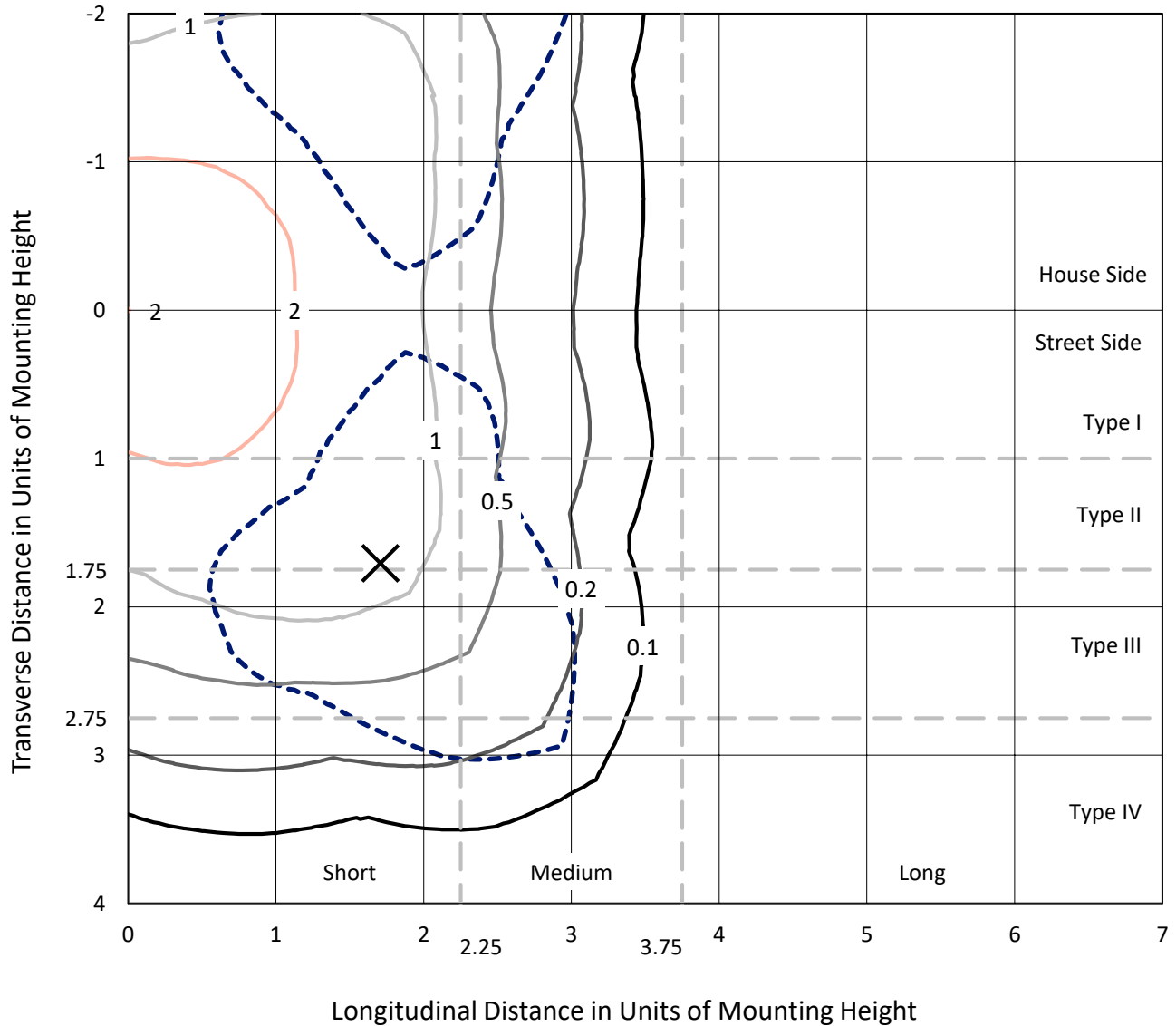
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

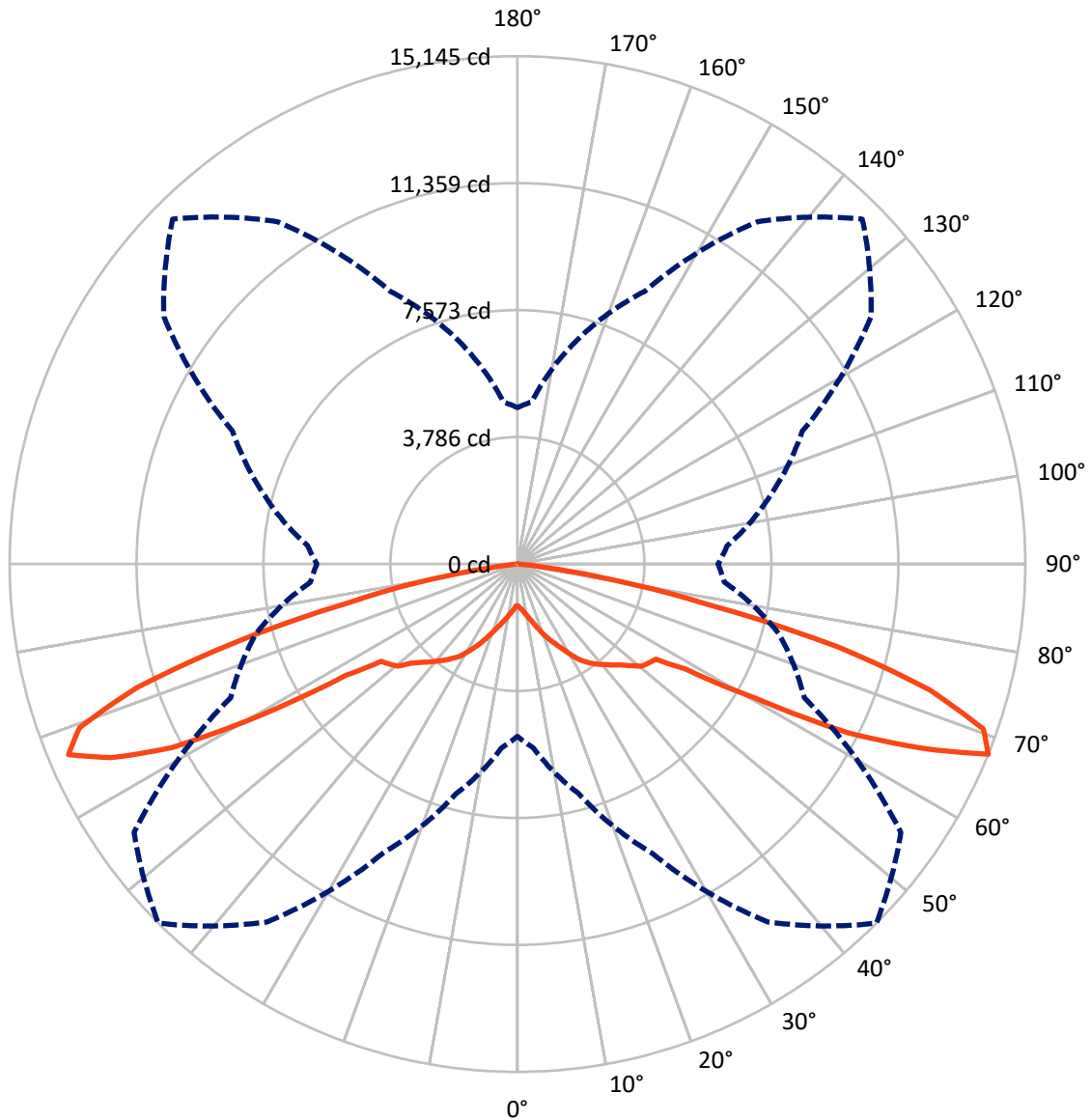
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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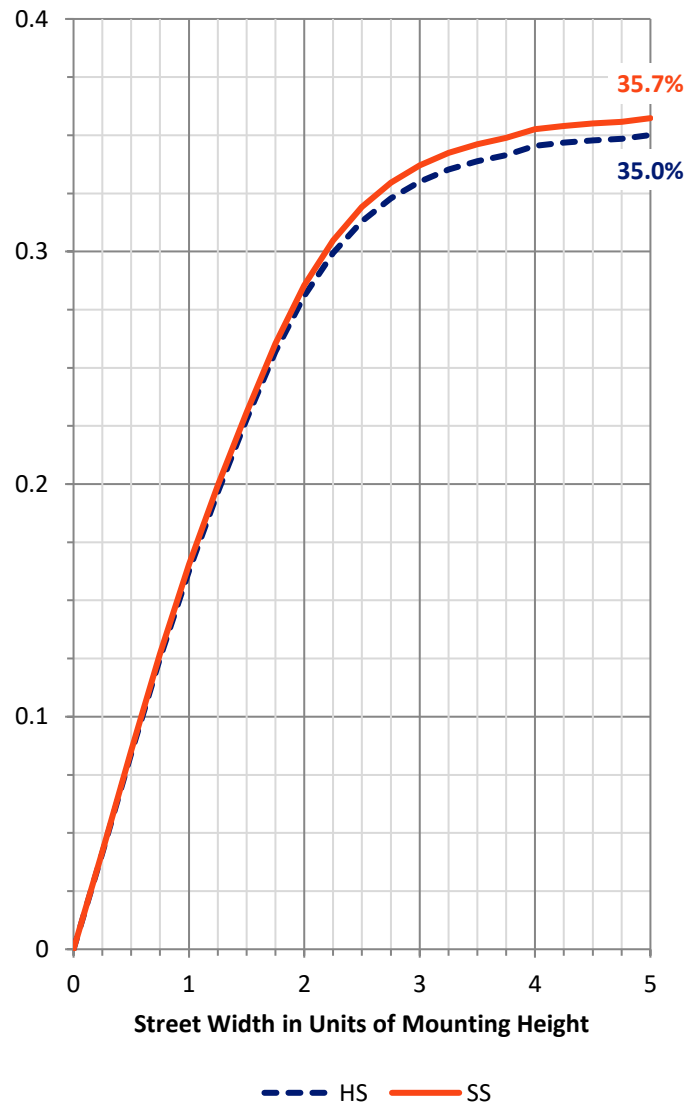
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12901.4	0.0	12901.4
	% Lamp	34.9	0.0	34.9
Street Side	Lumens	13241.7	0.0	13241.7
	% Lamp	35.8	0.0	35.8
Total	Lumens	26143.1	0.0	26143.1
	% Lamp	70.7	0.0	70.7

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	135.4	0.5	0.4
10°-20°	522.2	2.0	1.4
20°-30°	1172.2	4.5	3.2
30°-40°	2100.9	8.0	5.7
40°-50°	3161.8	12.1	8.5
50°-60°	4763.7	18.2	12.9
60°-70°	8968.5	34.3	24.2
70°-80°	4950.4	18.9	13.4
80°-90°	368.0	1.4	1.0
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°	26143.1	100.0	70.7
0°-180°	26143.1	100.0	70.7

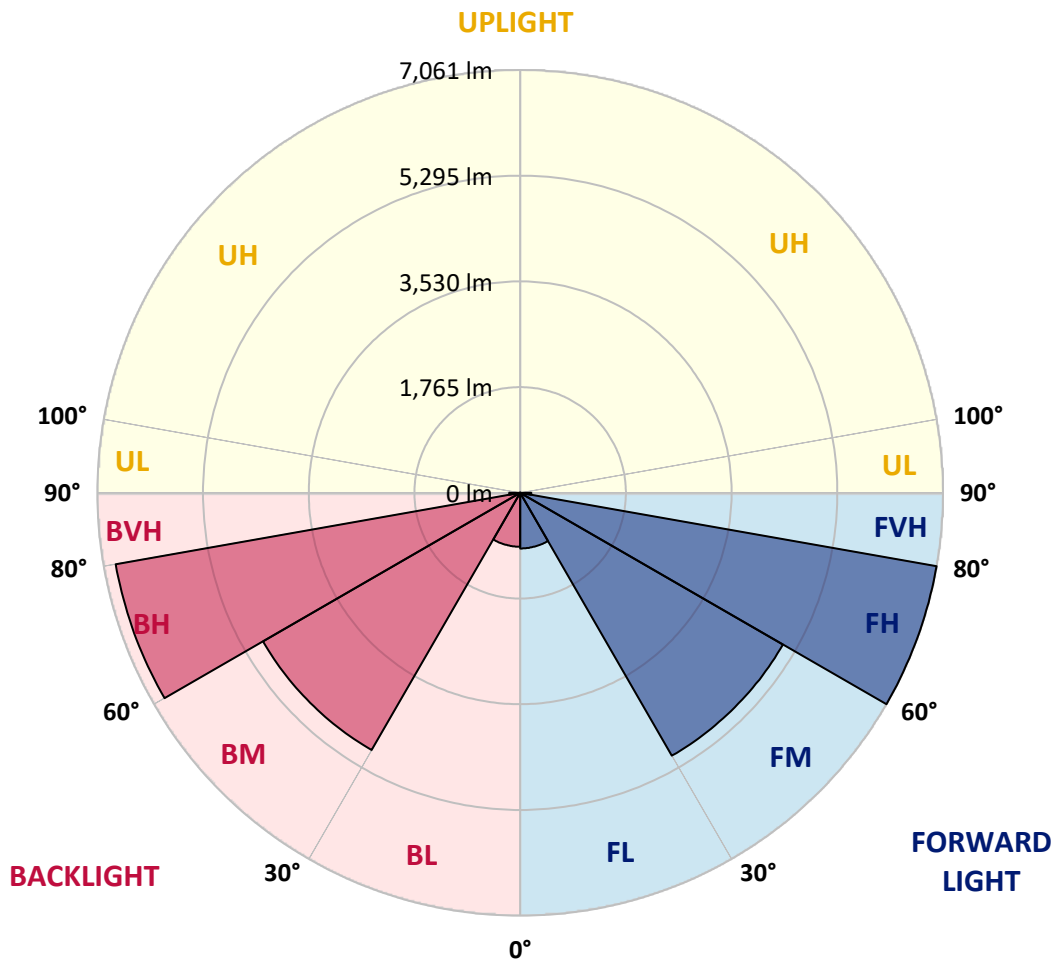


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	929.6	2.5			
FM (30°-60°)	5067.3	13.7			
FH (60°-80°)	7060.6	19.1			G3/7500
FVH (80°-90°)	184.1	0.5			G2/225
BL (0°-30°)	900.2	2.4	B2/1000		
BM (30°-60°)	4959.0	13.4	B3/5000		
BH (60°-80°)	6858.2	18.5	B5		G3/7500
BVH (80°-90°)	183.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	10856.9	29.3			

BUG Rating: B5-U0-G3
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5
2.5°	1289.9	1300.1	1289.9	1300.1	1295.0	1304.2	1300.1	1304.2	1300.1	1300.1	1295.0
5°	1349.5	1354.6	1359.7	1369.0	1363.9	1363.9	1363.9	1369.0	1379.3	1379.3	1388.5
7.5°	1438.9	1448.1	1438.9	1438.9	1448.1	1458.4	1468.7	1473.8	1477.9	1483.1	1488.2
10°	1518.0	1523.2	1518.0	1528.3	1537.6	1558.1	1567.4	1572.5	1582.8	1582.8	1582.8
12.5°	1627.0	1632.1	1642.4	1661.9	1681.4	1691.7	1702.0	1696.9	1702.0	1696.9	1691.7
15°	1735.9	1741.1	1765.7	1800.7	1830.5	1855.1	1855.1	1855.1	1860.3	1840.7	1840.7
17.5°	1835.6	1860.3	1914.7	1974.4	2014.4	2034.0	2039.1	2044.2	2028.8	2014.4	2004.2
20°	1954.8	1984.6	2063.8	2142.9	2197.4	2242.6	2262.1	2267.3	2242.6	2222.1	2207.7
22.5°	2063.8	2103.9	2202.5	2291.9	2381.4	2446.1	2480.0	2480.0	2446.1	2416.3	2400.9
25°	2162.4	2207.7	2336.1	2465.6	2560.2	2644.5	2704.1	2698.9	2653.7	2614.7	2590.0
27.5°	2291.9	2341.3	2509.8	2664.0	2788.4	2872.6	2941.5	2946.6	2862.4	2822.3	2807.9
30°	2450.2	2509.8	2698.9	2867.5	3025.8	3130.6	3155.3	3134.7	3050.4	3001.1	2966.2
32.5°	2648.6	2704.1	2922.0	3120.3	3304.3	3408.1	3408.1	3362.9	3269.4	3190.2	3150.1
35°	2848.0	2897.3	3150.1	3358.8	3506.8	3601.3	3601.3	3562.3	3452.3	3403.0	3348.5
37.5°	3046.3	3100.8	3383.4	3576.7	3710.3	3785.3	3785.3	3725.7	3676.4	3631.1	3562.3
40°	3185.1	3239.6	3562.3	3755.5	3884.0	3938.4	3968.2	3913.8	3894.2	3839.8	3760.6
42.5°	3274.5	3358.8	3740.1	3953.9	4067.9	4112.1	4147.1	4127.6	4132.7	4033.0	3938.4
45°	3343.4	3462.6	3878.8	4117.3	4226.2	4291.0	4301.2	4301.2	4301.2	4182.0	4082.3
47.5°	3422.5	3536.6	3988.8	4301.2	4429.7	4524.3	4480.1	4529.4	4474.9	4315.6	4222.1
50°	3462.6	3571.5	4033.0	4538.7	4772.0	4792.5	4831.6	4847.0	4663.0	4440.0	4360.9
52.5°	3522.2	3596.2	3992.9	4583.9	4931.3	4901.5	4985.7	4921.0	4708.2	4480.1	4385.5
55°	3799.7	3889.1	4211.8	4742.2	5094.7	5010.4	5328.0	5194.4	5029.9	4643.5	4559.2
57.5°	4285.8	4445.1	5173.8	6037.2	6359.9	5908.7	6805.9	6612.7	6047.4	5367.1	5258.1
60°	5099.8	5287.9	6414.4	8130.7	9023.9	8060.9	9524.4	8542.9	7426.7	6791.6	6656.9
62.5°	5338.3	5803.9	7198.6	9534.7	11360.0	11112.3	11935.6	9768.0	8209.9	7242.7	7039.2
65°	5407.1	5545.9	7133.8	9946.8	12421.7	13239.8	13215.2	9956.1	8274.6	6821.4	6682.6
67.5°	5138.9	5506.8	7093.7	9519.3	13032.2	15145.3	13959.3	9440.1	8081.4	6196.5	5982.7
70°	4355.7	5064.9	6384.6	8001.2	11751.6	14738.3	12391.9	7619.9	6702.1	4901.5	4717.5
72.5°	3323.8	3859.3	4886.1	5854.2	9768.0	12858.5	10040.4	5545.9	5144.0	3660.9	3596.2
75°	2074.1	2446.1	3179.9	3736.0	7282.8	9887.2	7257.1	3506.8	3283.7	2202.5	2158.3
77.5°	882.9	962.0	1512.9	1845.9	4440.0	5833.7	4236.5	1726.7	1409.1	987.7	833.5
80°	565.3	610.5	1031.9	1235.4	2515.0	2946.6	1949.7	1165.5	814.0	575.6	481.0
82.5°	307.3	337.1	505.7	665.0	744.1	754.4	540.6	610.5	391.6	272.4	252.8
85°	79.1	79.1	89.4	108.9	124.4	154.2	133.6	108.9	79.1	69.9	69.9
87.5°	0.0	0.0	5.1	0.0	14.4	10.3	10.3	10.3	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°	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5	1240.5
2.5°	1300.1	1289.9	1284.7	1265.2	1254.9	1235.4	1215.9	1205.6	1200.4	1200.4
5°	1384.4	1379.3	1379.3	1363.9	1354.6	1314.5	1314.5	1295.0	1300.1	1300.1
7.5°	1483.1	1483.1	1473.8	1463.6	1444.0	1418.3	1409.1	1403.9	1393.7	1388.5
10°	1592.0	1582.8	1582.8	1558.1	1547.8	1523.2	1512.9	1488.2	1477.9	1477.9
12.5°	1696.9	1691.7	1691.7	1686.6	1676.3	1646.5	1607.4	1592.0	1582.8	1577.6
15°	1830.5	1830.5	1810.9	1805.8	1800.7	1756.5	1721.5	1691.7	1676.3	1667.1
17.5°	1989.8	1974.4	1979.5	1979.5	1954.8	1900.4	1860.3	1805.8	1776.0	1765.7
20°	2197.4	2177.9	2167.6	2158.3	2128.5	2074.1	2004.2	1925.0	1874.7	1865.4
22.5°	2390.6	2371.1	2381.4	2381.4	2326.9	2267.3	2192.2	2088.4	2028.8	2004.2
25°	2574.6	2564.3	2599.2	2618.8	2560.2	2460.5	2361.8	2237.5	2162.4	2142.9
27.5°	2788.4	2788.4	2837.7	2848.0	2778.1	2669.1	2544.8	2406.0	2332.0	2321.8
30°	2951.8	2976.4	3050.4	3050.4	3001.1	2876.7	2713.3	2604.4	2504.7	2500.6
32.5°	3130.6	3194.3	3274.5	3264.2	3244.7	3115.2	2946.6	2832.6	2718.5	2688.7
35°	3323.8	3388.6	3472.9	3432.8	3408.1	3308.4	3169.7	3055.6	2951.8	2936.4
37.5°	3552.0	3592.1	3636.3	3596.2	3581.8	3492.4	3362.9	3269.4	3179.9	3185.1
40°	3764.7	3829.5	3829.5	3785.3	3750.4	3676.4	3566.4	3457.4	3362.9	3373.2
42.5°	3964.1	4027.9	4038.1	3973.4	3929.2	3850.1	3745.2	3606.5	3527.3	3522.2
45°	4127.6	4206.7	4246.8	4136.8	4112.1	4022.7	3938.4	3760.6	3671.2	3631.1
47.5°	4246.8	4385.5	4484.2	4350.6	4336.2	4222.1	4087.5	3878.8	3750.4	3701.0
50°	4390.7	4534.6	4766.8	4678.4	4687.7	4508.9	4331.1	3964.1	3764.7	3710.3
52.5°	4405.1	4613.7	4886.1	4852.1	4847.0	4708.2	4424.6	3964.1	3650.7	3601.3
55°	4559.2	4926.1	5268.4	5089.6	4995.0	4975.5	4657.9	4182.0	3764.7	3690.7
57.5°	5352.7	6082.4	6542.8	6468.8	6086.5	6175.9	5735.0	5089.6	4385.5	4217.0
60°	6756.6	7505.9	8527.5	9162.6	8869.7	8657.0	7376.4	6255.1	5491.4	5367.1
62.5°	7123.5	8483.3	10055.8	11474.1	11658.1	10889.3	8627.2	7029.0	5838.8	5545.9
65°	6707.3	8200.6	9921.1	12456.7	13409.4	11826.6	8864.6	7063.9	5347.5	5189.2
67.5°	6280.7	7788.5	9375.4	12872.9	14545.1	12456.7	8973.5	6930.3	4852.1	4663.0
70°	5010.4	6344.5	7748.4	11856.4	13944.9	11697.1	8046.5	6170.8	4291.0	4166.6
72.5°	3799.7	4752.4	5749.4	9946.8	11930.4	9847.1	6216.0	4841.9	3323.8	3214.9
75°	2286.8	2876.7	3706.2	7227.3	8736.1	7133.8	3815.1	2897.3	1989.8	1925.0
77.5°	917.8	1270.3	1999.0	4310.5	5273.5	4231.4	1939.4	1210.7	838.7	932.2
80°	556.0	853.1	1398.8	2237.5	3020.6	2078.2	1363.9	719.4	545.8	526.2
82.5°	252.8	412.1	749.2	630.0	818.1	605.4	694.8	386.4	307.3	258.0
85°	64.8	84.3	114.1	124.4	168.6	119.2	119.2	84.3	74.0	59.6
87.5°	0.0	0.0	5.1	5.1	10.3	5.1	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)