

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: 769007_350MP

Luminaire Tested: **GSM-XX-350-MP-XX-3F-FG-XX-X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 769007_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GSM-XX-350-MP-XX-3F-FG-XX-X
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-TYPE III DISTRIBUTION
Light Source: 350 WATT PULSE-START CLEAR ED-37 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 24853.3 lumens
Efficiency: 75.3%
Efficacy: 62.6 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G3

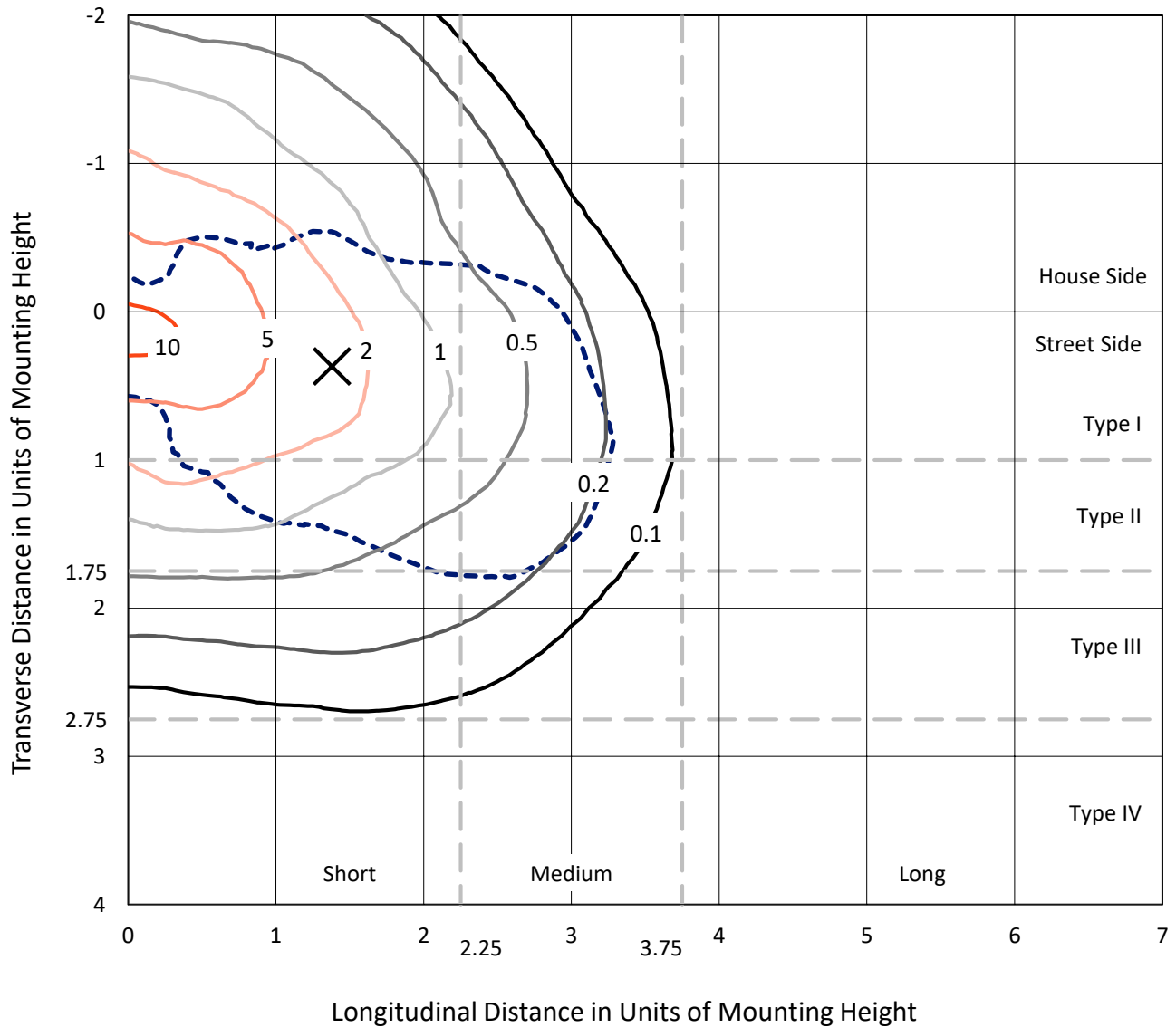
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

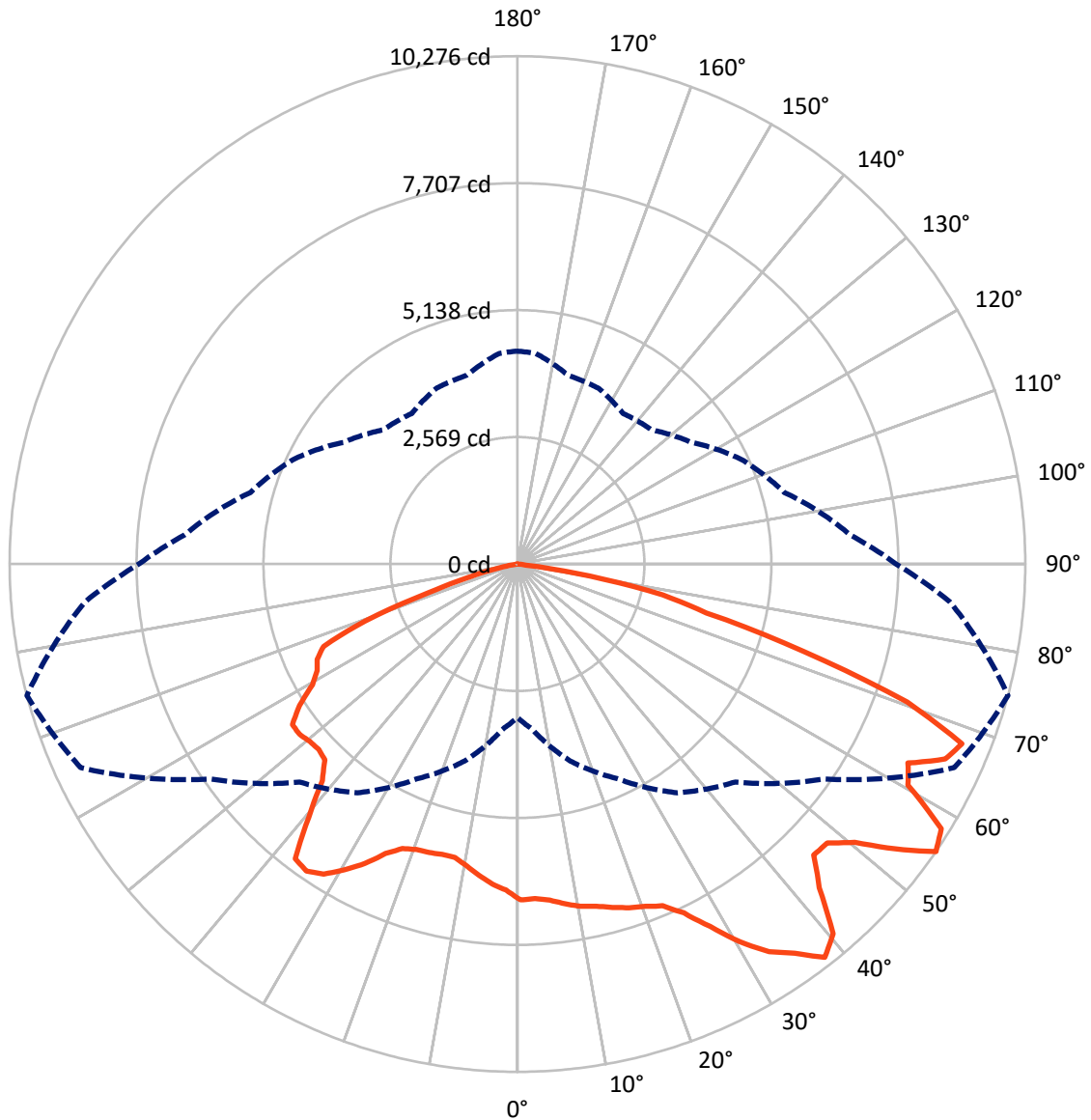
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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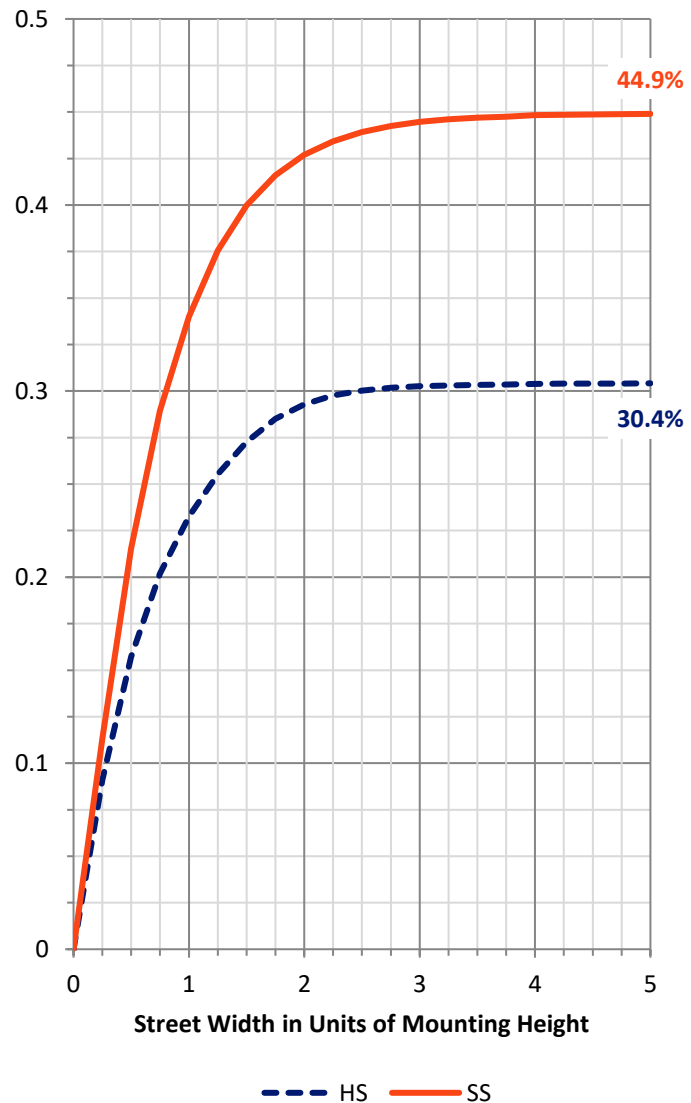
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10076.9	0.0	10076.9
	% Lamp	30.5	0.0	30.5
Street Side	Lumens	14776.4	0.0	14776.4
	% Lamp	44.8	0.0	44.8
Total	Lumens	24853.3	0.0	24853.3
	% Lamp	75.3	0.0	75.3

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	630.8	2.5	1.9
10°-20°	1804.6	7.3	5.5
20°-30°	2898.3	11.7	8.8
30°-40°	4014.0	16.2	12.2
40°-50°	4319.9	17.4	13.1
50°-60°	4926.0	19.8	14.9
60°-70°	4461.1	17.9	13.5
70°-80°	1737.4	7.0	5.3
80°-90°	61.1	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°	24853.3	100.0	75.3
0°-180°	24853.3	100.0	75.3

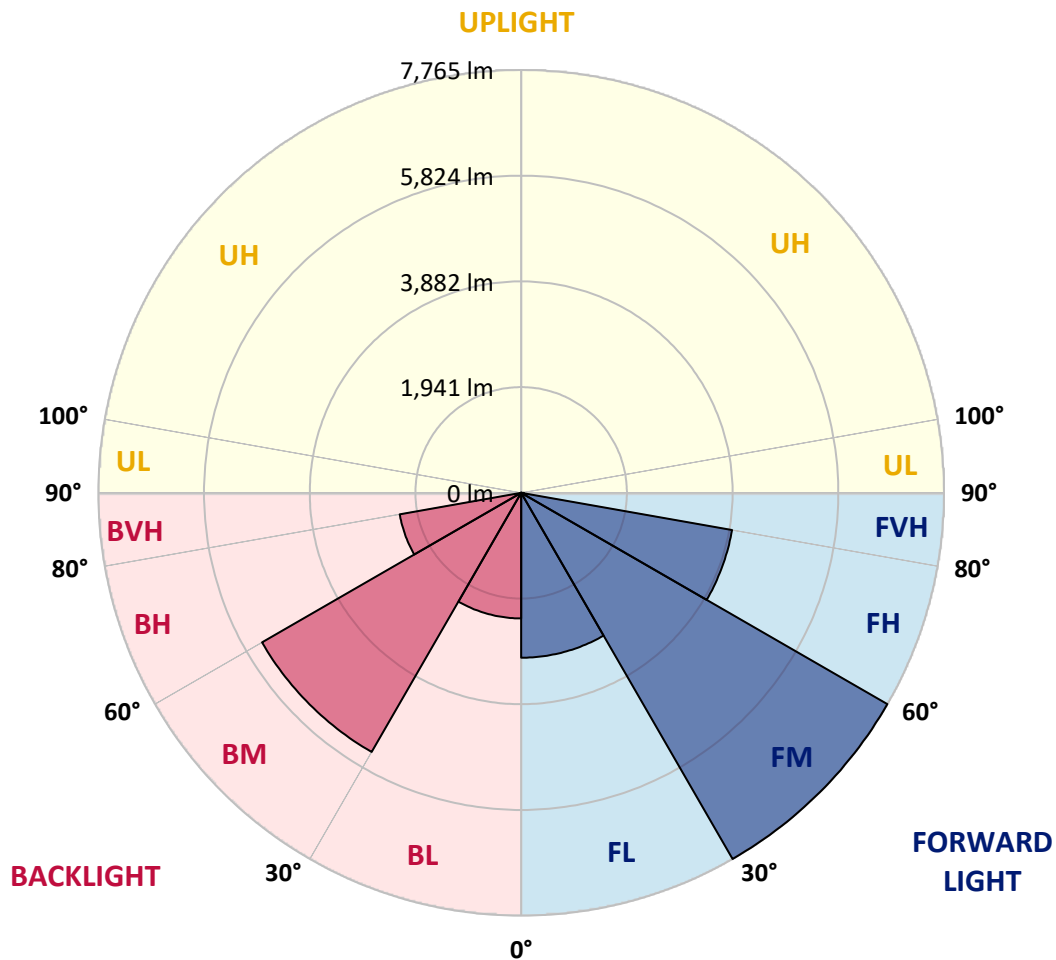


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3027.8	9.2			
FM (30°-60°)	7764.7	23.5			
FH (60°-80°)	3932.6	11.9			G2/5000
FVH (80°-90°)	51.3	0.2			G1/100
BL (0°-30°)	2306.0	7.0	B3/2500		
BM (30°-60°)	5495.1	16.7	B4/8500		
BH (60°-80°)	2266.0	6.9	B3/2500		G3/2500
BVH (80°-90°)	9.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	8146.7	24.7			

BUG Rating: B4-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1
2.5°	7119.8	7104.2	7109.7	7069.3	7029.0	6978.6	6922.7	6857.6	6776.9	6736.6	6686.2
5°	7351.7	7346.2	7321.4	7265.5	7180.2	7099.6	7029.0	6932.8	6831.9	6731.1	6650.4
7.5°	7482.8	7492.8	7462.6	7396.6	7351.7	7311.3	7250.8	7114.2	6942.8	6766.8	6640.3
10°	7543.2	7537.8	7543.2	7492.8	7527.7	7527.7	7492.8	7311.3	7043.7	6817.2	6655.9
12.5°	7462.6	7472.7	7502.9	7557.9	7644.1	7664.2	7578.1	7356.2	7104.2	6837.4	6630.2
15°	7291.2	7281.1	7356.2	7517.6	7634.0	7689.0	7628.5	7477.2	7210.5	6902.5	6680.7
17.5°	7029.0	7023.5	7160.1	7351.7	7482.8	7603.8	7654.2	7578.1	7311.3	6988.7	6766.8
20°	6716.4	6700.8	6887.8	7084.0	7260.9	7462.6	7654.2	7638.6	7396.6	7059.2	6831.9
22.5°	6292.9	6297.5	6529.4	6741.2	6998.8	7311.3	7638.6	7739.4	7513.0	7174.8	6928.2
25°	5899.7	5894.2	6095.8	6363.5	6766.8	7235.2	7755.0	7962.2	7821.0	7523.1	7225.2
27.5°	5435.8	5445.9	5687.9	6010.6	6605.5	7301.2	8002.5	8349.9	8305.0	8007.1	7654.2
30°	5032.5	5047.2	5324.9	5718.2	6468.9	7432.3	8315.1	8833.9	8874.2	8496.6	8128.1
32.5°	4669.5	4714.4	5052.7	5546.8	6458.8	7704.6	8637.8	9242.8	9353.7	8924.7	8511.2
35°	4336.8	4432.1	4861.1	5430.3	6534.9	7901.7	8778.9	9454.5	9670.8	9297.8	8849.5
37.5°	4074.6	4220.3	4815.2	5420.2	6585.3	7881.5	8829.3	9721.2	10099.8	9494.8	8990.7
40°	3861.9	4048.9	4845.5	5476.2	6454.2	7709.2	8829.3	9801.9	9837.7	8809.2	8234.4
42.5°	3761.1	3973.8	4931.7	5526.6	6176.5	7351.7	8436.1	9242.8	8954.9	7952.1	7406.7
45°	3660.2	3907.8	5027.0	5420.2	5712.7	6635.8	7678.9	8395.8	8400.3	7553.3	6948.3
47.5°	3619.9	3841.8	5047.2	5254.3	5355.2	6035.3	7114.2	8067.6	8436.1	7543.2	6857.6
50°	3509.0	3720.8	4906.0	5137.9	5309.3	5929.9	6983.2	8355.4	8849.5	7835.7	7049.2
52.5°	3337.6	3529.2	4633.8	4996.8	5506.4	6095.8	7240.8	8995.2	9575.5	8339.8	7356.2
55°	3105.7	3347.7	4125.0	4790.5	5652.2	6237.0	7578.1	9751.5	10275.8	8783.5	7658.8
57.5°	2964.5	3105.7	3589.7	4498.1	5536.7	6192.1	7537.8	9973.3	10109.9	8481.0	7356.2
60°	2762.8	2818.8	3151.5	4028.8	5153.5	5813.5	7190.3	9539.8	9081.4	7684.4	6807.2
62.5°	2389.8	2430.1	2728.0	3509.0	4649.3	5369.8	6686.2	9207.0	8869.7	7618.4	6700.8
65°	1794.8	1790.2	2203.7	3000.2	4240.5	5127.8	6237.0	8934.8	9515.0	7785.2	6807.2
67.5°	1371.3	1407.1	1780.2	2551.1	3851.8	4881.2	5974.8	8224.3	9701.1	8037.3	7059.2
70°	1058.8	1064.2	1421.8	2082.7	3353.2	4522.8	5718.2	7462.6	8370.1	7281.1	6192.1
72.5°	695.8	695.8	963.4	1578.5	2627.2	3923.3	5052.7	6252.6	6055.5	4719.9	3933.4
75°	433.6	423.5	534.4	933.2	1729.8	2682.2	3297.2	3963.7	3953.6	3030.5	2601.5
77.5°	242.0	227.3	191.6	272.2	539.9	1074.3	1739.8	2768.3	3000.2	2067.1	1683.9
80°	70.6	60.5	45.8	70.6	207.2	509.7	882.8	1477.7	1482.2	907.5	705.8
82.5°	0.0	0.0	0.0	0.0	20.2	66.0	106.3	156.8	171.4	96.2	66.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	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	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°	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1
2.5°	6655.9	6600.0	6549.6	6509.2	6489.1	6489.1	6489.1	6509.2	6509.2	6524.8
5°	6589.9	6494.6	6408.4	6267.2	6186.6	6136.2	6085.8	6061.0	6040.8	6040.8
7.5°	6539.5	6347.9	6105.9	5894.2	5758.5	5687.9	5672.3	5637.5	5597.2	5587.1
10°	6509.2	6196.7	5904.2	5632.0	5405.6	5264.4	5238.8	5238.8	5279.1	5284.6
12.5°	6444.2	6071.1	5728.2	5425.8	5173.7	4996.8	4961.9	5077.4	5178.2	5203.9
15°	6474.4	6065.6	5672.3	5314.8	5012.3	4820.8	4790.5	4931.7	5012.3	5032.5
17.5°	6529.4	6105.9	5702.6	5299.2	4961.9	4699.8	4684.2	4780.4	4810.7	4840.9
20°	6579.8	6126.1	5718.2	5329.5	5022.4	4684.2	4619.1	4785.0	4805.2	4830.8
22.5°	6670.6	6206.8	5793.3	5420.2	5137.9	4709.8	4477.9	4694.2	4820.8	4830.8
25°	6938.2	6438.7	5990.4	5647.6	5284.6	4760.2	4351.4	4411.9	4719.9	4740.1
27.5°	7326.0	6797.1	6267.2	5833.7	5425.8	4830.8	4301.0	4129.6	4498.1	4598.9
30°	7724.8	7109.7	6559.7	6015.2	5379.9	4851.0	4200.2	3903.2	4149.8	4235.9
32.5°	8087.8	7396.6	6781.5	6065.6	5395.5	4865.7	4104.8	3766.6	3851.8	3893.1
35°	8370.1	7537.8	6787.0	5929.9	5188.3	4588.8	3993.9	3660.2	3696.0	3700.6
37.5°	8430.6	7467.2	6625.7	5692.5	4901.4	4401.8	3893.1	3595.2	3675.8	3680.4
40°	7628.5	6640.3	5894.2	5006.8	4371.6	4079.2	3771.2	3569.5	3766.6	3791.3
42.5°	6817.2	5894.2	5335.0	4603.5	4079.2	3847.2	3650.2	3524.6	3857.3	3883.0
45°	6373.6	5556.8	5107.7	4498.1	4008.6	3660.2	3484.2	3383.4	3837.2	3973.8
47.5°	6282.8	5496.3	5057.2	4472.4	4018.7	3534.7	3377.9	3322.9	3837.2	4044.3
50°	6388.2	5526.6	5047.2	4472.4	4018.7	3559.4	3474.2	3388.0	3913.2	4044.3
52.5°	6569.8	5597.2	5093.0	4407.3	3917.8	3630.0	3710.7	3696.0	4149.8	4235.9
55°	6756.8	5591.7	5002.2	4290.9	3837.2	3720.8	3913.2	3953.6	4276.2	4306.5
57.5°	6458.8	5258.9	4785.0	4215.8	3796.8	3841.8	4008.6	3893.1	4054.4	4125.0
60°	5914.3	4810.7	4553.1	4180.0	3791.3	3903.2	3953.6	3494.3	3665.8	3913.2
62.5°	5657.7	4588.8	4532.9	4185.5	3831.7	3837.2	3534.7	2964.5	3171.7	3468.7
65°	5506.4	4488.0	4543.0	4109.4	3786.8	3559.4	2959.9	2405.3	2486.0	2682.2
67.5°	5395.5	4260.7	4185.5	3660.2	3433.8	3014.9	2369.6	1815.0	1699.5	1825.1
70°	4679.6	3292.7	2778.4	2359.5	2264.2	1875.5	1558.3	1144.9	988.2	1048.7
72.5°	3060.8	1905.8	1326.4	1074.3	983.6	802.1	705.8	570.2	519.8	544.5
75°	2057.0	1078.9	691.2	519.8	413.4	342.8	302.5	308.0	318.1	332.8
77.5°	1255.8	570.2	342.8	237.4	166.8	141.2	131.1	156.8	166.8	181.5
80°	509.7	217.2	116.4	66.0	45.8	30.2	30.2	40.3	40.3	40.3
82.5°	50.4	20.2	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	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)