

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_400MP

Luminaire Tested: **GSM-AM-400-MP-MT-3V-FG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 768803_400MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GSM-AM-400-MP-MT-3V-FG
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-VERTICAL LAMP-TYPE 3 DISTRIBUTION
Light Source: 400 WATT PULSE-START CLEAR ED-37 VBU BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 44000 (1 lamp)
Luminaire Lumens: 31956.7 lumens
Efficiency: 72.6%
Efficacy: 70.7 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

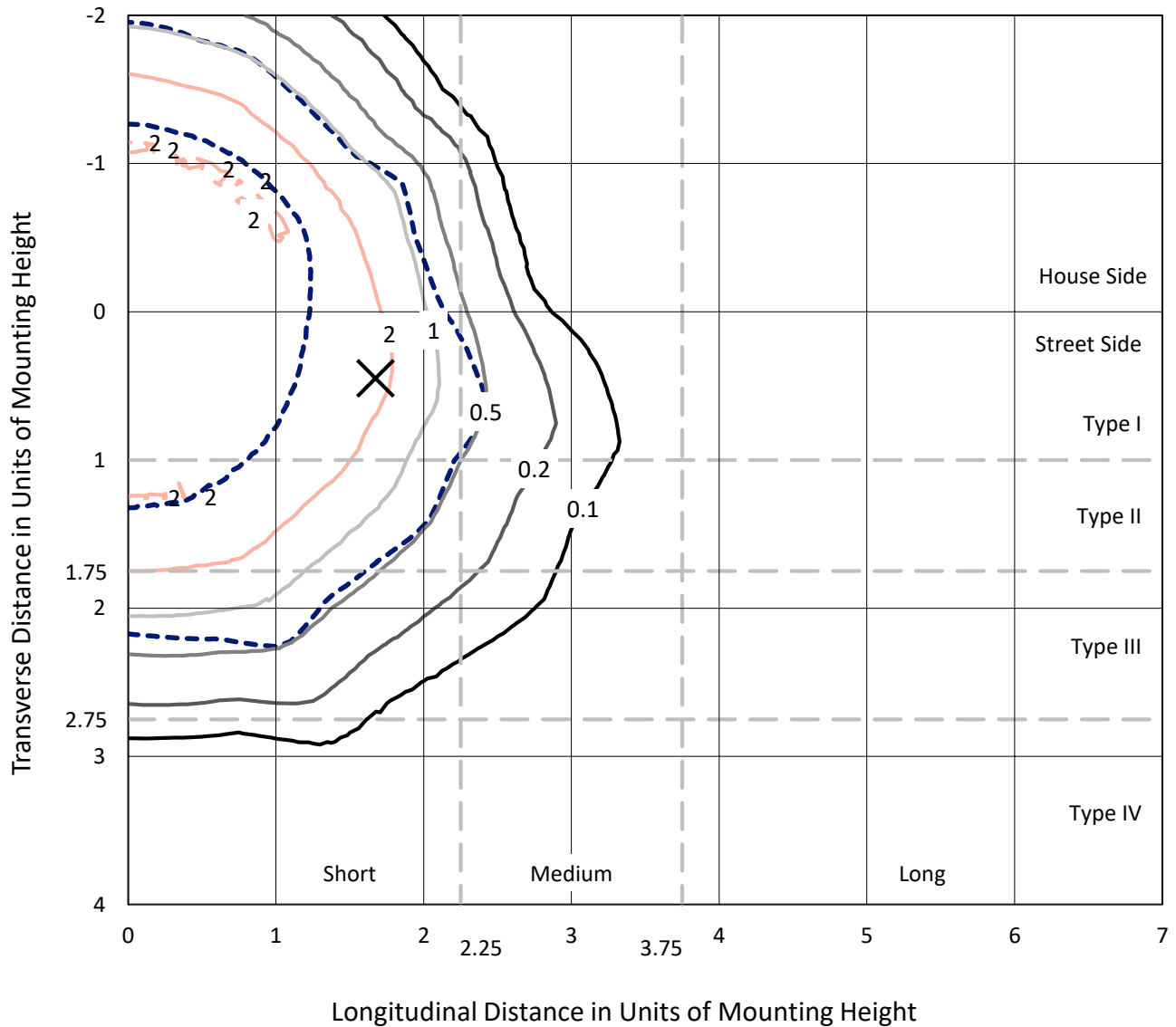
Input Watts (W): 452
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

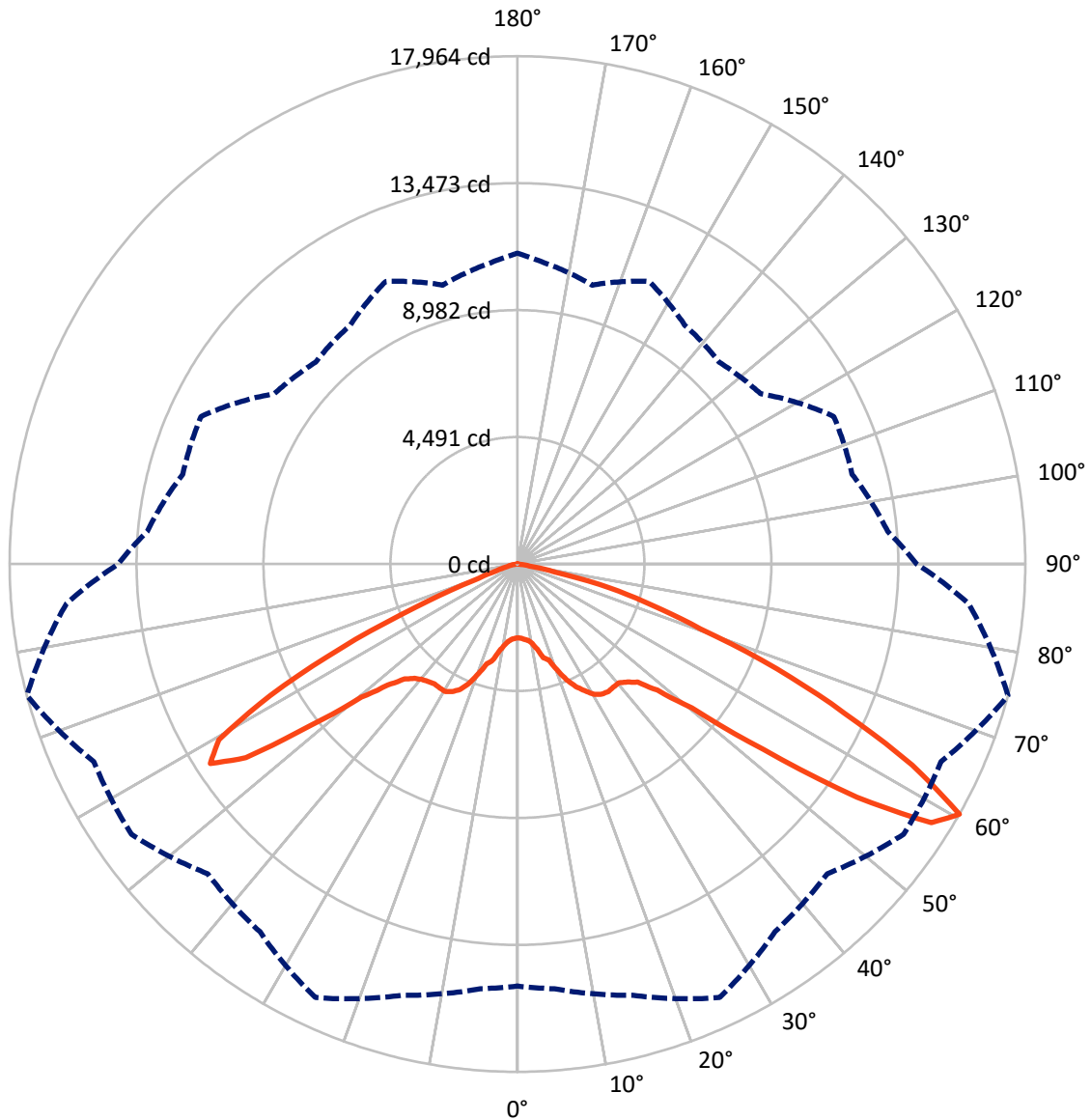
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 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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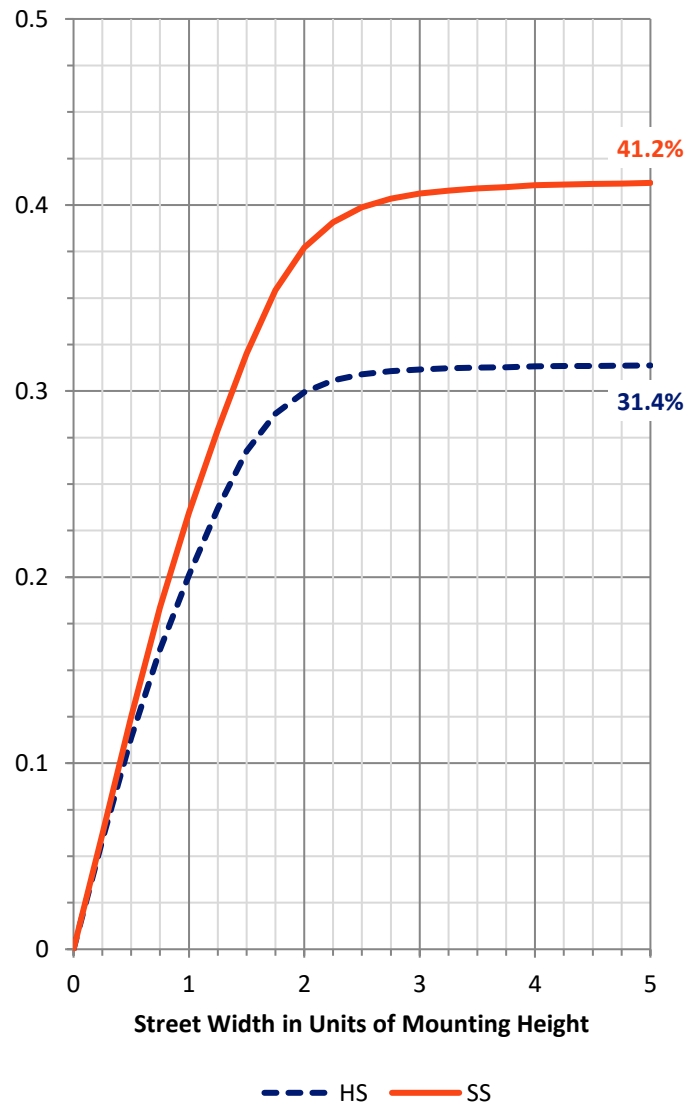
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13834.4	0.0	13834.4
	% Lamp	31.4	0.0	31.4
Street Side	Lumens	18122.3	0.0	18122.3
	% Lamp	41.2	0.0	41.2
Total	Lumens	31956.7	0.0	31956.7
	% Lamp	72.6	0.0	72.6

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	262.5	0.8	0.6
10°-20°	966.8	3.0	2.2
20°-30°	2139.8	6.7	4.9
30°-40°	3303.8	10.3	7.5
40°-50°	4624.5	14.5	10.5
50°-60°	10345.1	32.4	23.5
60°-70°	8636.7	27.0	19.6
70°-80°	1606.8	5.0	3.7
80°-90°	70.6	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°	31956.7	100.0	72.6
0°-180°	31956.7	100.0	72.6

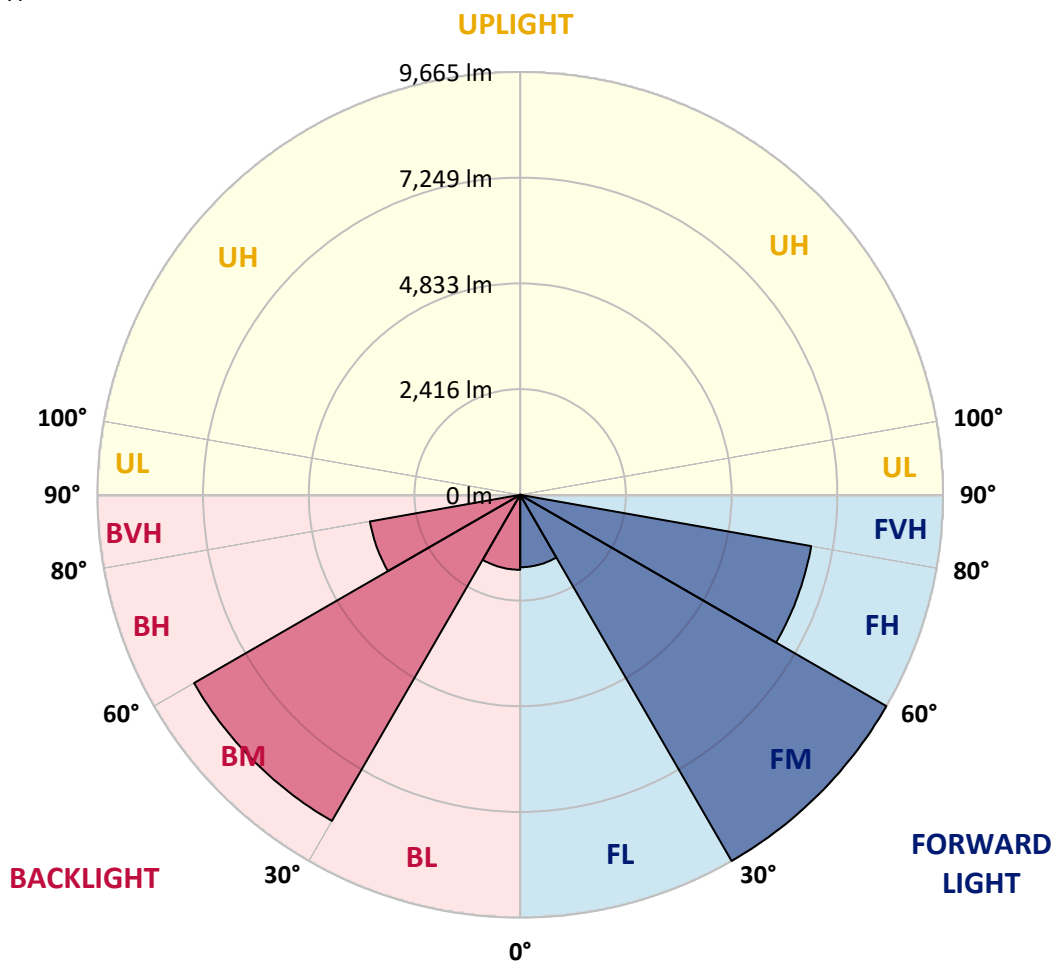


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1654.8	3.8			
FM	(30°-60°)	9665.2	22.0			
FH	(60°-80°)	6755.2	15.4			G3/7500
FVH	(80°-90°)	47.1	0.1			G1/100
BL	(0°-30°)	1714.3	3.9	B3/2500		
BM	(30°-60°)	8608.2	19.6	B5		
BH	(60°-80°)	3488.3	7.9	B4/5000		G4/5000
BVH	(80°-90°)	23.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		12043.3	27.4			

BUG Rating: B5-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8
2.5°	2622.9	2622.9	2614.3	2622.9	2622.9	2622.9	2631.4	2631.4	2631.4	2640.0	2631.4
5°	2690.1	2664.4	2690.1	2681.6	2664.4	2664.4	2673.0	2664.4	2681.6	2681.6	2673.0
7.5°	2690.1	2707.2	2698.7	2707.2	2707.2	2707.2	2690.1	2715.8	2723.1	2731.7	2731.7
10°	2790.3	2798.9	2783.0	2790.3	2807.4	2807.4	2824.6	2857.6	2857.6	2857.6	2874.7
12.5°	2941.9	2950.4	2933.3	2941.9	2950.4	2993.2	3009.1	3051.9	3084.9	3110.6	3127.7
15°	3210.8	3219.3	3202.2	3194.9	3219.3	3210.8	3295.1	3396.6	3446.7	3463.8	3479.7
17.5°	3278.0	3278.0	3269.4	3278.0	3320.8	3370.9	3412.4	3505.3	3555.4	3581.1	3598.2
20°	3598.2	3598.2	3564.0	3598.2	3656.9	3656.9	3749.8	3900.1	3993.0	4034.6	4043.1
22.5°	4034.6	4018.7	4001.6	4051.7	4077.3	4051.7	4161.7	4346.2	4446.4	4480.7	4480.7
25°	4439.1	4430.6	4439.1	4463.6	4463.6	4439.1	4556.4	4732.4	4799.7	4825.3	4842.4
27.5°	4825.3	4816.8	4851.0	4901.1	4791.1	4732.4	4866.9	5018.4	5077.1	5094.2	5052.7
30°	5178.6	5135.8	5187.1	5287.3	5102.8	5009.9	5161.4	5321.6	5354.6	5278.8	5203.0
32.5°	5464.6	5388.8	5413.2	5523.2	5321.6	5245.8	5397.3	5531.8	5489.0	5380.2	5287.3
35°	5614.9	5581.9	5573.3	5614.9	5421.8	5388.8	5506.1	5640.6	5540.3	5388.8	5313.0
37.5°	5716.3	5682.1	5640.6	5599.0	5471.9	5354.6	5489.0	5573.3	5523.2	5421.8	5421.8
40°	5850.8	5816.6	5724.9	5614.9	5506.1	5363.1	5523.2	5581.9	5523.2	5497.6	5489.0
42.5°	6035.3	6002.3	5926.6	5749.3	5800.7	5599.0	5724.9	5909.4	5707.8	5707.8	5809.2
45°	6304.2	6262.7	6153.9	6069.6	6119.7	5926.6	6094.0	6221.1	5959.6	6212.6	6312.8
47.5°	6724.7	6691.7	6490.0	6347.0	6438.7	6380.0	6490.0	6607.3	6666.0	7036.3	6859.1
50°	6926.3	6859.1	6776.0	6733.2	7002.1	7010.7	7255.1	7658.4	8003.1	7977.4	7927.3
52.5°	7682.9	7750.1	7868.7	8272.0	8725.4	9028.6	9574.9	10498.9	10886.3	10600.3	10079.7
55°	11231.0	11600.1	11592.8	12273.6	12206.3	12566.9	13121.8	13609.4	14567.7	13719.4	12542.4
57.5°	14005.4	14122.8	14315.9	15265.6	14677.7	14517.6	15451.3	15744.7	17266.3	15846.1	14231.6
60°	14929.4	15081.0	15796.0	16921.7	15879.1	15492.9	16669.9	16535.4	17964.2	16013.6	14122.8
62.5°	12962.9	13121.8	14147.2	15727.6	14147.2	13921.1	14971.0	14333.0	15677.4	13457.9	11575.7
65°	9061.6	9356.1	10448.8	12499.7	10978.0	11079.4	12104.9	11432.7	12709.9	10381.6	8725.4
67.5°	6019.4	6371.4	7271.0	9625.0	8196.2	8473.7	9373.2	8801.2	9911.0	7246.6	5649.1
70°	3295.1	3405.1	3875.7	6464.3	5278.8	5666.2	6397.1	5993.8	6859.1	4472.1	2857.6
72.5°	1059.7	1059.7	1320.0	3589.7	3202.2	3757.1	4682.3	4177.6	4992.8	3127.7	1706.2
75°	572.0	563.4	730.9	2354.0	2311.2	2723.1	3379.4	2883.2	3388.0	2152.3	1168.4
77.5°	336.1	336.1	470.6	1437.3	1344.4	1656.1	1606.0	1563.2	1337.1	1168.4	680.8
80°	151.6	160.1	201.7	353.2	470.6	672.2	420.4	453.4	429.0	446.1	310.4
82.5°	67.2	75.8	75.8	125.9	143.0	134.4	151.6	168.7	117.3	117.3	108.8
85°	17.1	17.1	8.6	25.7	17.1	17.1	41.6	50.1	25.7	8.6	17.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	8.6	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°	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8
2.5°	2640.0	2631.4	2640.0	2640.0	2648.6	2622.9	2631.4	2631.4	2622.9	2622.9
5°	2690.1	2673.0	2690.1	2707.2	2707.2	2731.7	2748.8	2765.9	2765.9	2757.3
7.5°	2748.8	2765.9	2798.9	2807.4	2824.6	2833.1	2841.7	2841.7	2833.1	2841.7
10°	2891.8	2933.3	2967.6	2967.6	2967.6	2967.6	2959.0	2950.4	2941.9	2959.0
12.5°	3143.6	3169.2	3219.3	3236.4	3219.3	3227.9	3227.9	3219.3	3210.8	3210.8
15°	3505.3	3522.4	3531.0	3505.3	3531.0	3522.4	3505.3	3522.4	3488.2	3496.8
17.5°	3631.2	3689.9	3741.2	3732.7	3732.7	3682.6	3656.9	3656.9	3656.9	3648.3
20°	4068.8	4101.8	4144.6	4101.8	4085.9	4034.6	4010.1	4010.1	4001.6	4001.6
22.5°	4506.3	4539.3	4539.3	4480.7	4455.0	4413.4	4337.7	4320.6	4296.1	4287.6
25°	4858.3	4875.4	4866.9	4783.8	4775.2	4699.4	4623.7	4556.4	4522.2	4506.3
27.5°	5052.7	5060.0	5035.6	4942.7	4934.1	4851.0	4783.8	4732.4	4623.7	4623.7
30°	5152.9	5178.6	5127.2	5052.7	5044.1	4959.8	4892.6	4766.7	4606.6	4606.6
32.5°	5187.1	5178.6	5170.0	5068.6	5085.7	4992.8	4976.9	4775.2	4632.2	4673.8
35°	5237.2	5152.9	5161.4	5035.6	5060.0	4976.9	4942.7	4851.0	4749.6	4775.2
37.5°	5304.4	5211.6	5211.6	5085.7	5111.3	5035.6	4976.9	4942.7	4866.9	4875.4
40°	5380.2	5295.9	5228.7	5178.6	5187.1	5135.8	5035.6	5052.7	4976.9	4992.8
42.5°	5716.3	5438.9	5337.4	5295.9	5254.3	5262.9	5152.9	5220.1	5128.4	5144.3
45°	6078.1	5699.2	5523.2	5413.2	5346.0	5354.6	5295.9	5354.6	5313.0	5262.9
47.5°	6683.1	6279.8	5850.8	5623.4	5581.9	5657.7	5599.0	5674.8	5623.4	5614.9
50°	7817.3	7255.1	6548.7	6481.4	6674.6	6826.1	6993.6	7136.6	6733.2	6708.8
52.5°	9961.1	9238.8	8415.0	8927.1	9288.9	9449.0	9768.0	9928.1	9793.7	9869.4
55°	12483.8	11803.0	10860.7	11407.0	11667.3	11567.1	12130.6	12315.1	12206.3	12323.7
57.5°	13811.1	12954.3	12390.9	12298.0	12012.0	11794.4	12432.4	11584.2	12239.3	12659.8
60°	13147.4	12256.4	12349.3	10498.9	10095.6	10314.3	11029.3	10214.1	10701.8	10995.1
62.5°	10717.7	9902.4	10516.0	7843.0	7632.8	7977.4	8734.0	8549.4	9061.6	9180.1
65°	7734.2	6917.8	7539.9	4942.7	4985.4	5430.3	5900.9	6388.6	6783.3	6826.1
67.5°	4615.1	3908.7	4228.9	2774.4	2984.7	3320.8	3622.7	3942.9	4101.8	4153.1
70°	1933.6	1614.6	1740.4	1395.8	1547.3	1673.2	1790.6	1892.0	1866.3	1899.3
72.5°	958.2	773.7	782.2	739.4	773.7	806.7	832.3	882.4	849.4	840.9
75°	647.8	520.7	470.6	462.0	496.2	479.1	479.1	479.1	487.7	453.4
77.5°	411.9	353.2	294.6	310.4	310.4	310.4	286.0	260.3	251.8	251.8
80°	260.3	227.3	184.6	193.1	193.1	168.7	184.6	151.6	134.4	134.4
82.5°	117.3	101.4	67.2	58.7	75.8	75.8	58.7	58.7	50.1	50.1
85°	0.0	8.6	0.0	8.6	8.6	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	8.6	8.6	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)