

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: P190995

Luminaire Tested: **GLEON-AF-07-LED-E1-RW-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-RW-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29006.8 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 226
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

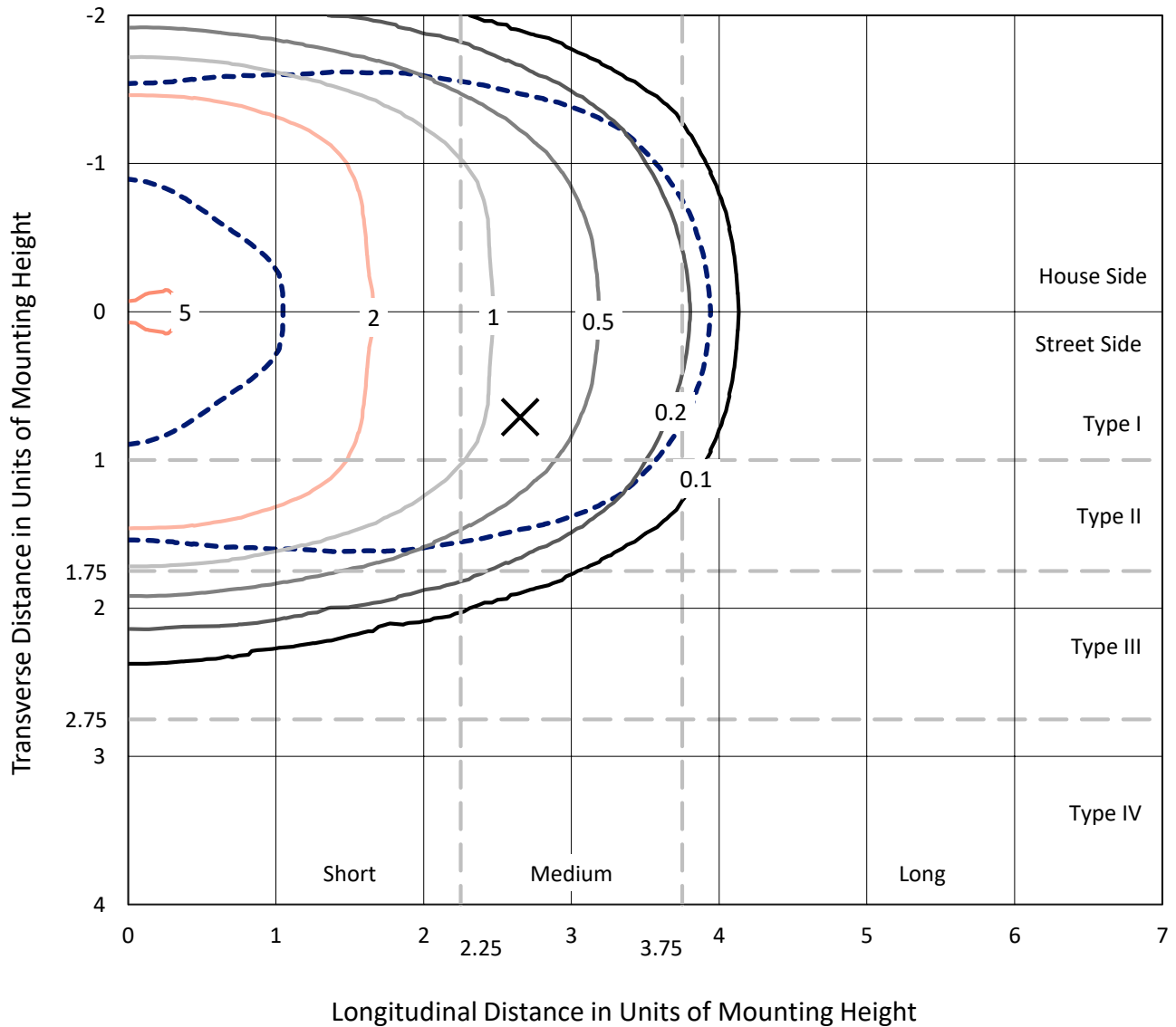


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Iso-Footcandle Lines of Horizontal Illumination

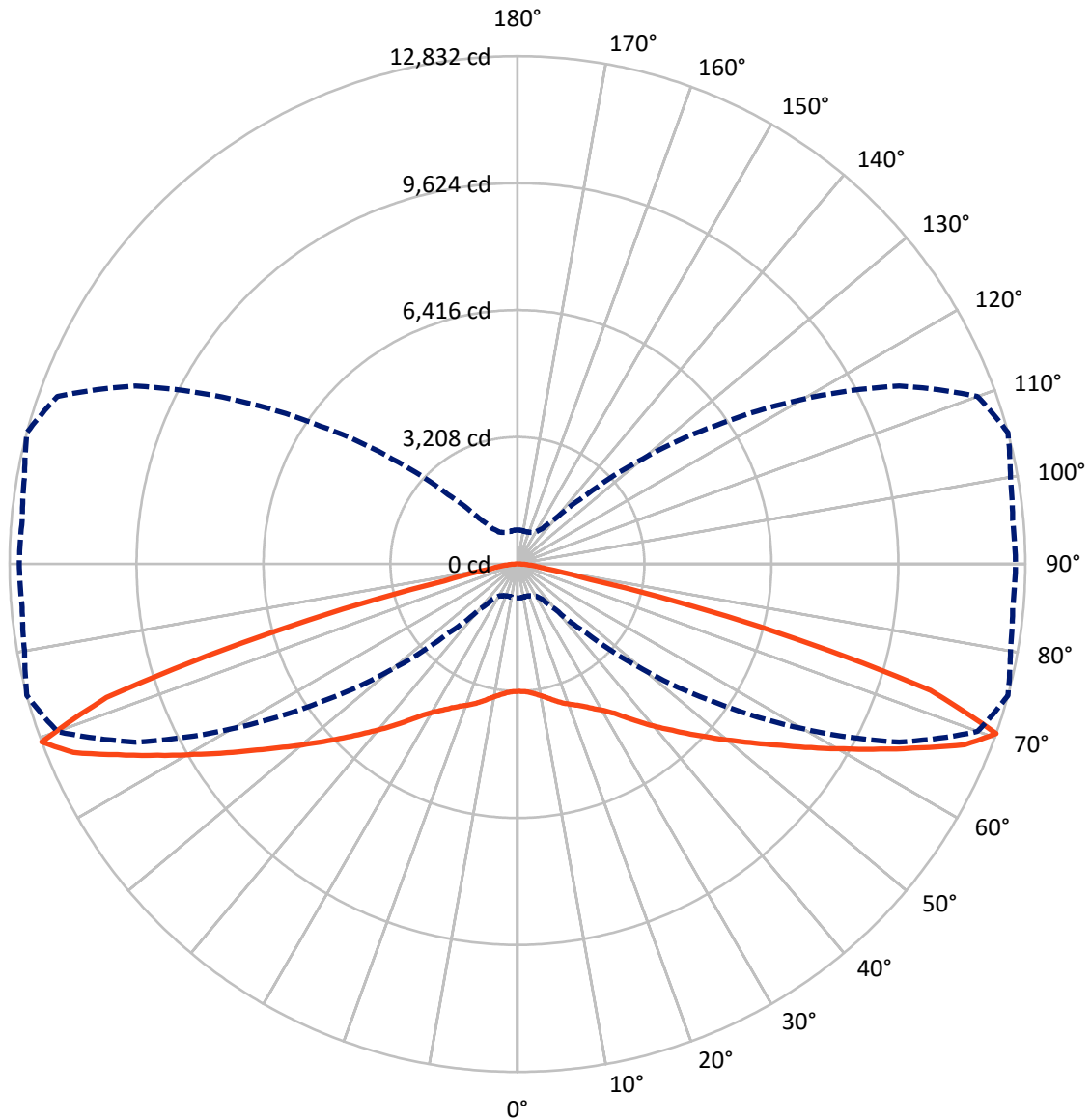
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14503.4	0.0	14503.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14503.4	0.0	14503.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	29006.8	0.0	29006.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.6	1.1
10°-20°	958.8	3.3
20°-30°	1804.7	6.2
30°-40°	3195.7	11.0
40°-50°	5344.2	18.4
50°-60°	7447.2	25.7
60°-70°	6906.1	23.8
70°-80°	2752.3	9.5
80°-90°	289.3	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	29006.8	100.0
0°-180°	29006.8	100.0



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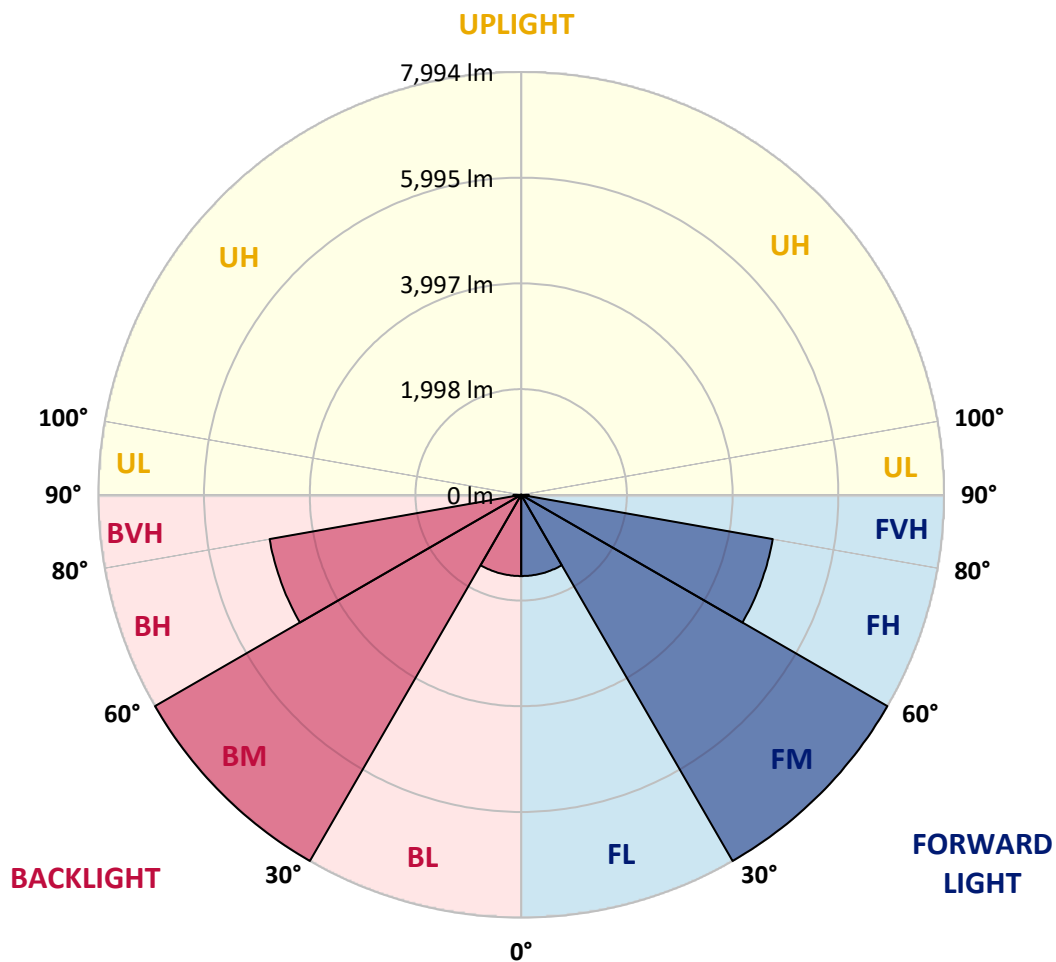
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1536.0	5.3			
FM	(30°-60°)	7993.5	27.6			
FH	(60°-80°)	4829.2	16.6			G2/5000
FVH	(80°-90°)	144.7	0.5			G2/225
BL	(0°-30°)	1536.0	5.3	B3/2500		
BM	(30°-60°)	7993.5	27.6	B4/8500		
BH	(60°-80°)	4829.2	16.6	B4/5000		G4/5000
BVH	(80°-90°)	144.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3217.5	3217.5	3217.5	3217.5	3217.5	3217.5	3217.5	3217.5	3217.5	3217.5	3217.5
2.5°	3212.1	3209.3	3212.1	3210.6	3213.4	3213.4	3216.2	3221.7	3221.7	3225.8	3224.3
5°	3180.6	3179.1	3183.2	3187.4	3191.5	3199.7	3208.0	3220.2	3229.9	3236.7	3243.6
7.5°	3118.9	3118.9	3124.3	3133.9	3143.5	3161.3	3180.6	3205.2	3229.9	3250.4	3268.2
10°	3068.1	3070.8	3077.6	3094.1	3110.6	3138.0	3164.1	3199.7	3234.0	3268.2	3295.6
12.5°	3038.0	3042.1	3054.4	3079.1	3106.5	3143.5	3183.2	3228.5	3266.9	3308.0	3335.4
15°	3047.6	3050.2	3068.1	3098.2	3133.9	3180.6	3234.0	3287.5	3332.7	3376.6	3413.6
17.5°	3101.0	3105.1	3125.7	3160.0	3196.9	3251.8	3309.3	3369.7	3425.9	3475.3	3520.5
20°	3196.9	3201.1	3227.1	3264.1	3308.0	3364.2	3421.8	3484.9	3547.9	3600.0	3650.7
22.5°	3332.7	3339.5	3364.2	3401.2	3450.6	3510.9	3579.4	3646.6	3707.0	3754.9	3800.2
25°	3510.9	3526.0	3549.3	3590.5	3642.5	3697.4	3771.4	3840.0	3897.5	3942.8	3975.6
27.5°	3763.1	3783.7	3801.5	3841.3	3892.0	3944.1	4018.2	4078.5	4133.3	4177.1	4201.9
30°	4097.6	4118.2	4136.0	4174.5	4221.0	4270.4	4340.3	4393.8	4428.0	4462.3	4461.0
32.5°	4503.4	4525.3	4532.2	4573.4	4621.4	4674.8	4737.9	4768.1	4795.5	4799.6	4774.9
35°	4957.2	4968.2	4995.6	5050.4	5105.2	5149.1	5209.5	5224.5	5224.5	5204.0	5149.1
37.5°	5454.9	5461.7	5500.1	5561.8	5618.0	5663.3	5704.4	5734.6	5719.4	5675.5	5583.7
40°	6000.5	6012.8	6067.6	6122.5	6185.6	6228.0	6271.9	6277.4	6262.3	6197.9	6073.2
42.5°	6521.4	6532.4	6587.2	6673.6	6755.9	6814.8	6855.9	6864.2	6816.1	6757.2	6602.3
45°	6969.7	6998.5	7069.8	7171.2	7290.5	7374.1	7430.3	7453.6	7411.2	7334.4	7154.8
47.5°	7324.7	7353.6	7455.1	7575.7	7723.7	7859.4	7952.6	8002.0	7991.1	7933.5	7737.4
50°	7585.3	7612.7	7722.4	7870.4	8043.2	8211.7	8370.8	8488.7	8529.8	8503.8	8324.2
52.5°	7615.5	7660.7	7789.6	7988.3	8213.2	8443.4	8669.6	8869.8	9005.5	9026.1	8893.1
55°	7194.5	7239.8	7418.0	7712.7	8047.2	8422.9	8784.8	9122.1	9389.4	9526.4	9456.6
57.5°	6202.0	6282.9	6470.7	6816.1	7308.4	7870.4	8447.5	9046.7	9590.9	9954.2	10024.1
60°	4752.9	4848.9	5038.1	5405.5	5953.9	6624.2	7394.7	8280.3	9241.3	10058.4	10546.4
62.5°	3048.9	3139.4	3338.2	3657.6	4104.5	4831.1	5657.7	6709.2	8000.6	9290.6	10453.2
65°	1567.0	1616.3	1720.5	1913.8	2262.1	2804.9	3546.6	4595.3	6071.7	7663.4	9344.1
67.5°	992.6	1002.2	1025.4	1052.8	1141.9	1329.7	1675.3	2329.2	3543.8	5204.0	7171.2
70°	858.2	858.2	847.2	843.1	854.1	880.1	933.5	1085.8	1495.7	2470.4	4136.0
72.5°	785.5	777.3	758.1	743.1	740.3	740.3	751.3	774.6	840.4	1006.3	1619.0
75°	723.8	700.5	674.5	656.6	649.8	642.9	641.6	645.7	659.4	685.5	773.1
77.5°	648.4	618.3	588.1	570.3	562.1	552.5	544.2	534.7	527.8	536.0	574.4
80°	557.9	523.6	500.4	489.4	481.2	467.5	449.7	433.2	418.1	415.4	438.6
82.5°	449.7	409.9	411.2	415.4	400.3	381.2	361.9	344.1	318.0	304.3	318.0
85°	363.2	342.7	333.2	359.2	337.3	308.4	278.3	246.7	205.6	172.8	187.8
87.5°	141.2	141.2	211.1	324.9	292.1	238.6	204.3	174.1	108.3	83.6	85.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3217.5	3217.5	3217.5	3217.5	3217.5	3217.5	3217.5	3217.5
2.5°	3223.0	3225.8	3224.3	3223.0	3223.0	3221.7	3223.0	3223.0
5°	3247.7	3254.5	3254.5	3257.3	3257.3	3258.6	3260.0	3258.6
7.5°	3284.7	3297.1	3305.3	3314.9	3316.2	3317.6	3320.4	3317.6
10°	3321.7	3346.4	3364.2	3382.1	3390.3	3393.0	3395.8	3395.8
12.5°	3368.4	3402.6	3434.1	3465.7	3480.8	3489.0	3489.0	3494.5
15°	3445.1	3479.4	3516.4	3558.8	3584.9	3598.6	3602.7	3602.7
17.5°	3553.4	3583.6	3615.1	3656.2	3689.2	3707.0	3711.1	3709.7
20°	3679.6	3708.3	3726.1	3752.2	3780.9	3801.5	3807.0	3807.0
22.5°	3823.5	3840.0	3842.7	3850.9	3874.2	3901.6	3913.9	3916.7
25°	3982.4	3986.6	3975.6	3975.6	3990.7	4016.8	4029.1	4030.5
27.5°	4188.2	4167.6	4140.2	4130.6	4140.2	4170.3	4185.4	4190.9
30°	4444.5	4395.1	4332.1	4297.8	4292.3	4332.1	4359.5	4363.6
32.5°	4737.9	4666.6	4582.9	4513.1	4495.3	4519.9	4552.8	4551.4
35°	5086.1	5001.1	4899.6	4810.5	4769.4	4794.1	4840.7	4846.1
37.5°	5487.7	5376.7	5260.2	5147.8	5083.3	5090.2	5139.5	5156.0
40°	5936.1	5792.2	5645.5	5494.6	5402.7	5384.9	5445.3	5454.9
42.5°	6415.8	6230.8	6045.7	5859.3	5741.4	5714.0	5783.9	5779.8
45°	6927.2	6691.4	6474.8	6269.2	6129.3	6088.2	6145.8	6145.8
47.5°	7477.0	7186.3	6928.5	6695.5	6543.4	6484.4	6539.2	6543.4
50°	8059.6	7751.1	7448.2	7189.1	7006.7	6931.3	7002.6	7013.6
52.5°	8639.4	8339.3	8033.5	7737.4	7516.7	7424.9	7507.1	7542.7
55°	9227.6	8932.8	8640.9	8351.6	8089.7	7981.5	8069.1	8114.5
57.5°	9848.7	9575.8	9297.5	9005.5	8753.3	8584.6	8677.9	8738.1
60°	10576.6	10343.6	10054.3	9732.1	9477.1	9305.8	9359.2	9412.7
62.5°	11152.4	11242.8	10997.4	10624.6	10296.9	10077.6	10129.7	10185.8
65°	10874.1	11802.2	12020.2	11643.1	11189.3	10848.0	10826.1	10854.8
67.5°	9089.1	10891.9	12206.6	12565.8	12186.0	11711.7	11624.0	11666.4
70°	6080.0	8325.6	10645.1	12372.5	12831.7	12648.1	12561.6	12587.7
72.5°	2920.0	4848.9	7221.9	9518.3	10916.5	11558.1	11763.8	11863.9
75°	1068.0	1924.8	3480.8	5245.1	6332.3	7330.3	7981.5	8247.4
77.5°	644.4	777.3	1111.8	1673.9	1895.9	2122.2	2034.4	2078.3
80°	477.1	538.8	610.1	685.5	710.1	710.1	682.7	660.8
82.5°	334.5	374.3	408.6	449.7	460.6	440.1	361.9	287.9
85°	215.2	233.0	248.2	274.2	267.3	255.0	171.3	152.2
87.5°	98.7	112.4	117.9	130.2	124.8	119.3	85.0	71.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)