

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: P191022

Luminaire Tested: **GLEON-AF-04-LED-E1-RW-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191022
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-04-LED-E1-RW-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27543 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

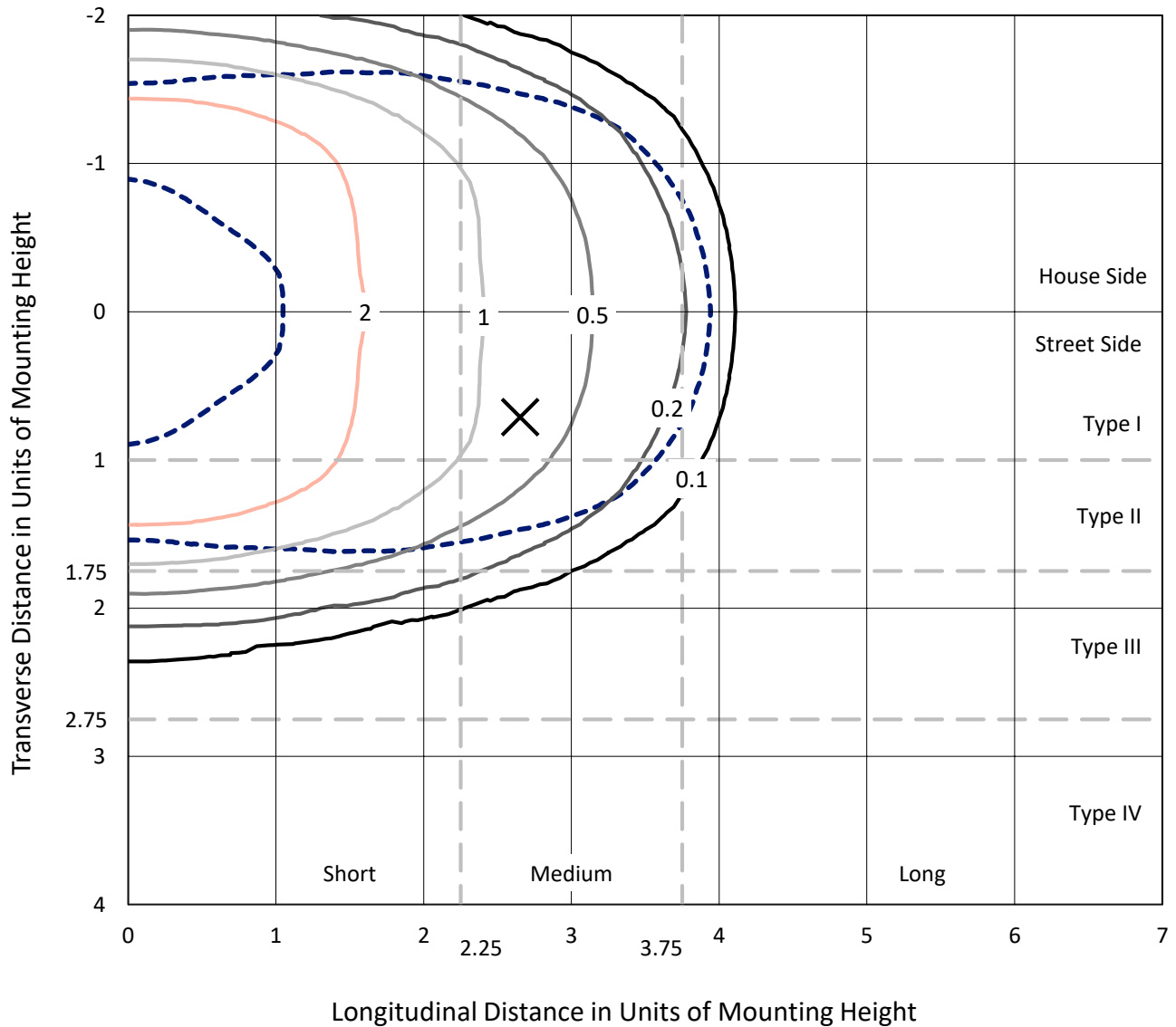
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

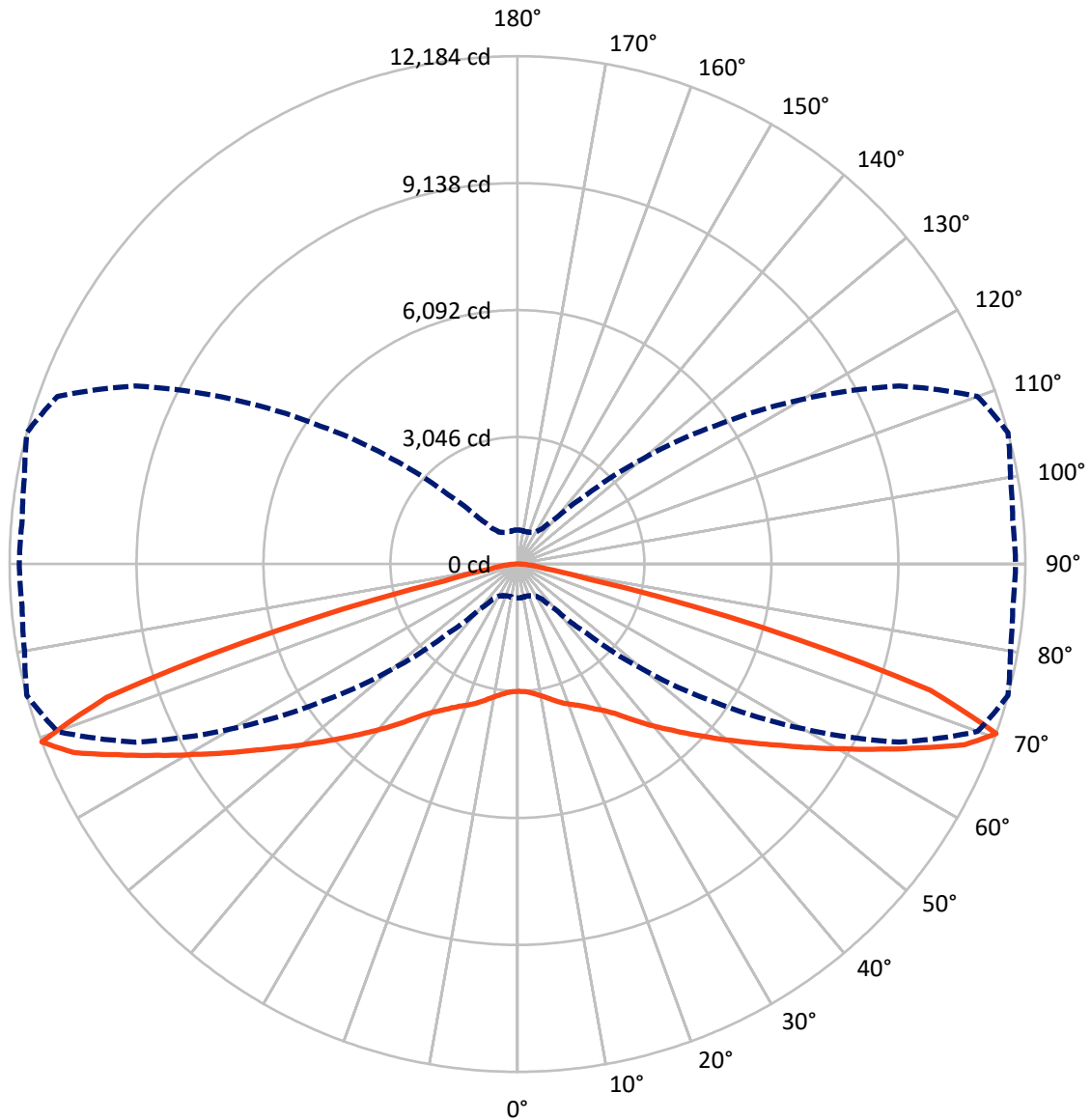
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	13771.5	0.0	13771.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13771.5	0.0	13771.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27543.0	0.0	27543.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.0	1.1
10°-20°	910.4	3.3
20°-30°	1713.6	6.2
30°-40°	3034.4	11.0
40°-50°	5074.5	18.4
50°-60°	7071.4	25.7
60°-70°	6557.5	23.8
70°-80°	2613.4	9.5
80°-90°	274.7	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°	27543.0	100.0
0°-180°	27543.0	100.0

Coefficient of Utilization



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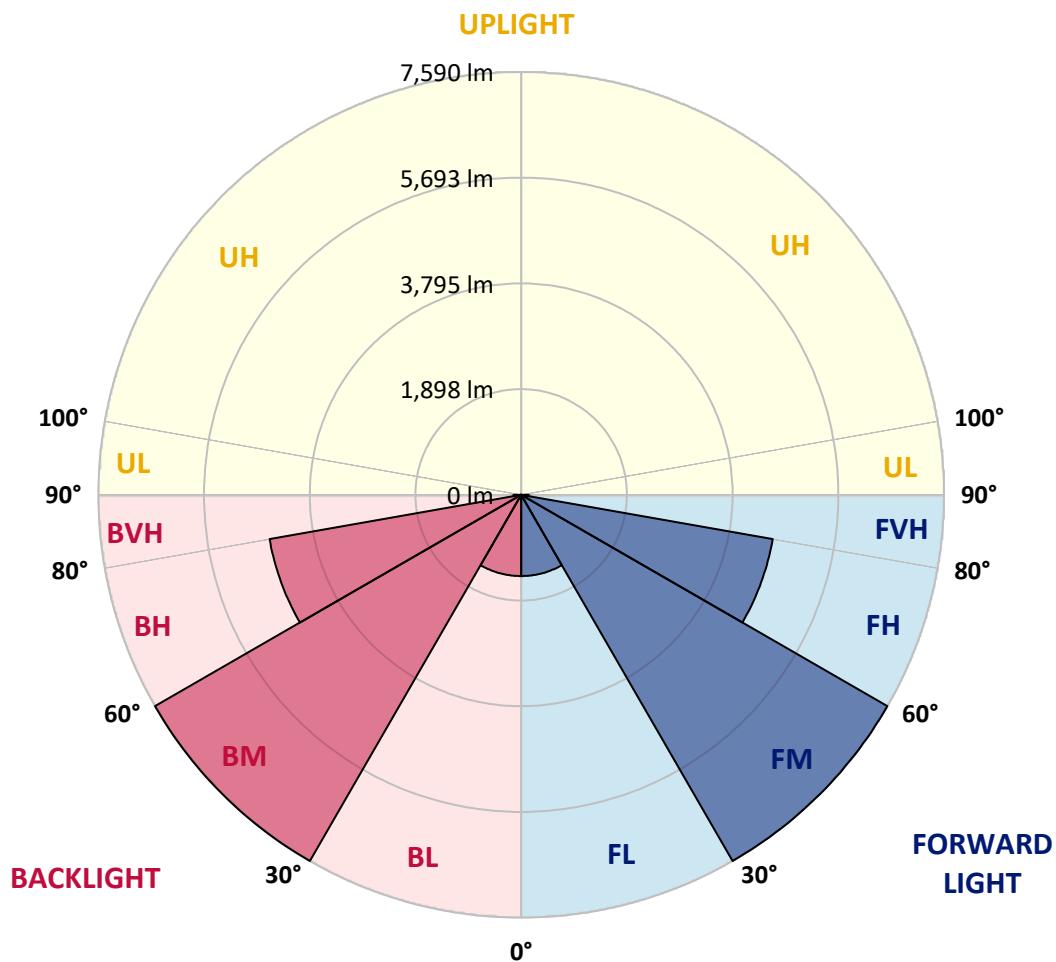
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1458.5	5.3			
FM	(30°-60°)	7590.2	27.6			
FH	(60°-80°)	4585.5	16.6			G2/5000
FVH	(80°-90°)	137.4	0.5			G2/225
BL	(0°-30°)	1458.5	5.3	B3/2500		
BM	(30°-60°)	7590.2	27.6	B4/8500		
BH	(60°-80°)	4585.5	16.6	B4/5000		G4/5000
BVH	(80°-90°)	137.4	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°	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1
2.5°	3049.9	3047.4	3049.9	3048.6	3051.3	3051.3	3053.8	3059.0	3059.0	3062.9	3061.7
5°	3020.1	3018.7	3022.6	3026.5	3030.4	3038.3	3046.0	3057.8	3066.9	3073.4	3079.9
7.5°	2961.4	2961.4	2966.7	2975.8	2984.9	3001.7	3020.1	3043.5	3066.9	3086.4	3103.3
10°	2913.3	2915.9	2922.4	2938.0	2953.7	2979.7	3004.4	3038.3	3070.8	3103.3	3129.3
12.5°	2884.6	2888.5	2900.3	2923.7	2949.7	2984.9	3022.6	3065.6	3102.0	3141.1	3167.1
15°	2893.7	2896.4	2913.3	2941.9	2975.8	3020.1	3070.8	3121.5	3164.5	3206.1	3241.3
17.5°	2944.5	2948.5	2968.0	3000.5	3035.6	3087.7	3142.4	3199.7	3253.0	3299.8	3342.8
20°	3035.6	3039.5	3064.2	3099.4	3141.1	3194.5	3249.1	3309.0	3368.9	3418.3	3466.5
22.5°	3164.5	3171.0	3194.5	3229.6	3276.4	3333.7	3398.9	3462.6	3519.9	3565.4	3608.4
25°	3333.7	3348.0	3370.2	3409.2	3458.7	3510.8	3581.0	3646.1	3700.8	3743.8	3775.0
27.5°	3573.3	3592.8	3609.7	3647.4	3695.6	3745.0	3815.4	3872.7	3924.8	3966.4	3989.8
30°	3890.9	3910.4	3927.3	3963.7	4008.0	4054.9	4121.3	4172.0	4204.5	4237.2	4235.8
32.5°	4276.1	4297.0	4303.6	4342.5	4388.2	4438.9	4498.7	4527.4	4553.5	4557.3	4533.9
35°	4707.0	4717.4	4743.5	4795.6	4847.7	4889.3	4946.6	4960.9	4960.9	4941.4	4889.3
37.5°	5179.6	5186.1	5222.6	5281.1	5334.5	5377.4	5416.5	5445.2	5430.8	5389.1	5302.0
40°	5697.6	5709.4	5761.5	5813.5	5873.4	5913.8	5955.4	5960.6	5946.3	5885.1	5766.7
42.5°	6192.3	6202.8	6254.8	6336.8	6414.9	6470.9	6510.0	6517.7	6472.2	6416.3	6269.2
45°	6618.0	6645.3	6713.0	6809.4	6922.6	7002.0	7055.4	7077.5	7037.2	6964.2	6793.7
47.5°	6955.1	6982.5	7078.8	7193.4	7333.9	7462.8	7551.3	7598.2	7587.7	7533.1	7346.9
50°	7202.5	7228.5	7332.6	7473.3	7637.2	7797.3	7948.3	8060.3	8099.3	8074.7	7904.1
52.5°	7231.1	7274.1	7396.4	7585.2	7798.7	8017.4	8232.1	8422.2	8551.1	8570.6	8444.4
55°	6831.5	6874.4	7043.6	7323.5	7641.1	7997.8	8341.4	8661.7	8915.5	9045.7	8979.4
57.5°	5889.0	5965.8	6144.1	6472.2	6939.5	7473.3	8021.3	8590.1	9106.9	9451.9	9518.3
60°	4513.1	4604.2	4783.8	5132.8	5653.4	6289.9	7021.5	7862.4	8775.0	9550.8	10014.2
62.5°	2895.1	2981.0	3169.7	3473.0	3897.3	4587.3	5372.2	6370.6	7596.8	8821.8	9925.7
65°	1487.9	1534.7	1633.7	1817.2	2147.9	2663.4	3367.6	4363.4	5765.4	7276.7	8872.6
67.5°	942.4	951.5	973.6	999.7	1084.3	1262.6	1590.7	2211.6	3365.0	4941.4	6809.4
70°	814.9	814.9	804.4	800.6	811.0	835.8	886.5	1030.9	1420.2	2345.7	3927.3
72.5°	745.9	738.1	719.9	705.5	703.0	703.0	713.3	735.5	798.0	955.4	1537.3
75°	687.3	665.2	640.5	623.5	617.0	610.5	609.2	613.2	626.1	650.9	734.2
77.5°	615.7	587.1	558.4	541.6	533.7	524.6	516.8	507.7	501.1	509.0	545.4
80°	529.8	497.3	475.2	464.7	457.0	443.9	427.0	411.3	397.0	394.4	416.5
82.5°	427.0	389.2	390.6	394.4	380.1	361.9	343.6	326.7	302.0	289.0	302.0
85°	344.9	325.4	316.3	341.1	320.2	292.9	264.2	234.4	195.3	164.0	178.3
87.5°	134.1	134.1	200.5	308.5	277.2	226.5	194.0	165.3	102.8	79.4	80.7
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°	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1
2.5°	3060.4	3062.9	3061.7	3060.4	3060.4	3059.0	3060.4	3060.4
5°	3083.8	3090.3	3090.3	3092.9	3092.9	3094.2	3095.6	3094.2
7.5°	3119.0	3130.6	3138.5	3147.6	3148.8	3150.2	3152.7	3150.2
10°	3154.1	3177.5	3194.5	3211.3	3219.1	3221.8	3224.3	3224.3
12.5°	3198.4	3230.9	3260.9	3290.7	3305.1	3312.9	3312.9	3318.1
15°	3271.2	3303.8	3338.9	3379.3	3404.0	3417.1	3421.0	3421.0
17.5°	3374.1	3402.7	3432.6	3471.7	3503.0	3519.9	3523.8	3522.4
20°	3493.8	3521.2	3538.1	3562.8	3590.1	3609.7	3614.9	3614.9
22.5°	3630.6	3646.1	3648.8	3656.5	3678.6	3704.7	3716.5	3719.0
25°	3781.5	3785.4	3775.0	3775.0	3789.3	3814.1	3825.7	3827.1
27.5°	3976.8	3957.3	3931.2	3922.1	3931.2	3959.8	3974.2	3979.4
30°	4220.2	4173.3	4113.5	4081.0	4075.7	4113.5	4139.5	4143.4
32.5°	4498.7	4431.1	4351.6	4285.2	4268.4	4291.8	4323.0	4321.8
35°	4829.5	4748.7	4652.4	4567.8	4528.7	4552.1	4596.4	4601.6
37.5°	5210.8	5105.3	4994.8	4888.0	4826.8	4833.3	4880.2	4895.8
40°	5636.5	5499.8	5360.5	5217.4	5130.1	5113.2	5170.5	5179.6
42.5°	6092.1	5916.3	5740.6	5563.6	5451.6	5425.6	5492.0	5488.1
45°	6577.7	6353.8	6148.0	5952.8	5820.0	5781.0	5835.6	5835.6
47.5°	7099.6	6823.7	6578.9	6357.6	6213.1	6157.1	6209.2	6213.1
50°	7652.9	7359.9	7072.3	6826.3	6653.2	6581.6	6649.2	6659.6
52.5°	8203.5	7918.5	7628.1	7346.9	7137.3	7050.2	7128.2	7162.1
55°	8761.9	8482.1	8204.8	7930.1	7681.5	7578.6	7662.0	7705.0
57.5°	9351.6	9092.6	8828.3	8551.1	8311.6	8151.4	8240.0	8297.3
60°	10042.8	9821.6	9546.9	9240.9	8998.8	8836.1	8886.9	8937.6
62.5°	10589.6	10675.5	10442.5	10088.3	9777.3	9569.0	9618.5	9671.8
65°	10325.3	11206.5	11413.6	11055.5	10624.7	10300.6	10279.7	10307.0
67.5°	8630.4	10342.2	11590.5	11931.6	11571.1	11120.7	11037.3	11077.7
70°	5773.1	7905.4	10107.9	11748.1	12184.2	12009.7	11927.7	11952.5
72.5°	2772.7	4604.2	6857.5	9037.9	10365.7	10974.8	11170.1	11265.1
75°	1014.1	1827.6	3305.1	4980.4	6012.7	6960.4	7578.6	7831.2
77.5°	611.8	738.1	1055.7	1589.4	1800.3	2015.1	1931.7	1973.4
80°	453.0	511.6	579.3	650.9	674.3	674.3	648.2	627.5
82.5°	317.6	355.4	387.9	427.0	437.4	417.9	343.6	273.3
85°	204.4	221.3	235.6	260.3	253.8	242.1	162.8	144.4
87.5°	93.7	106.7	111.9	123.7	118.5	113.2	80.7	67.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)