

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: P191795

Luminaire Tested: **GLEON-AF-07-LED-E1-RW-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191795
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-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28356 lumens
Efficiency: N/A
Efficacy: 125.5 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

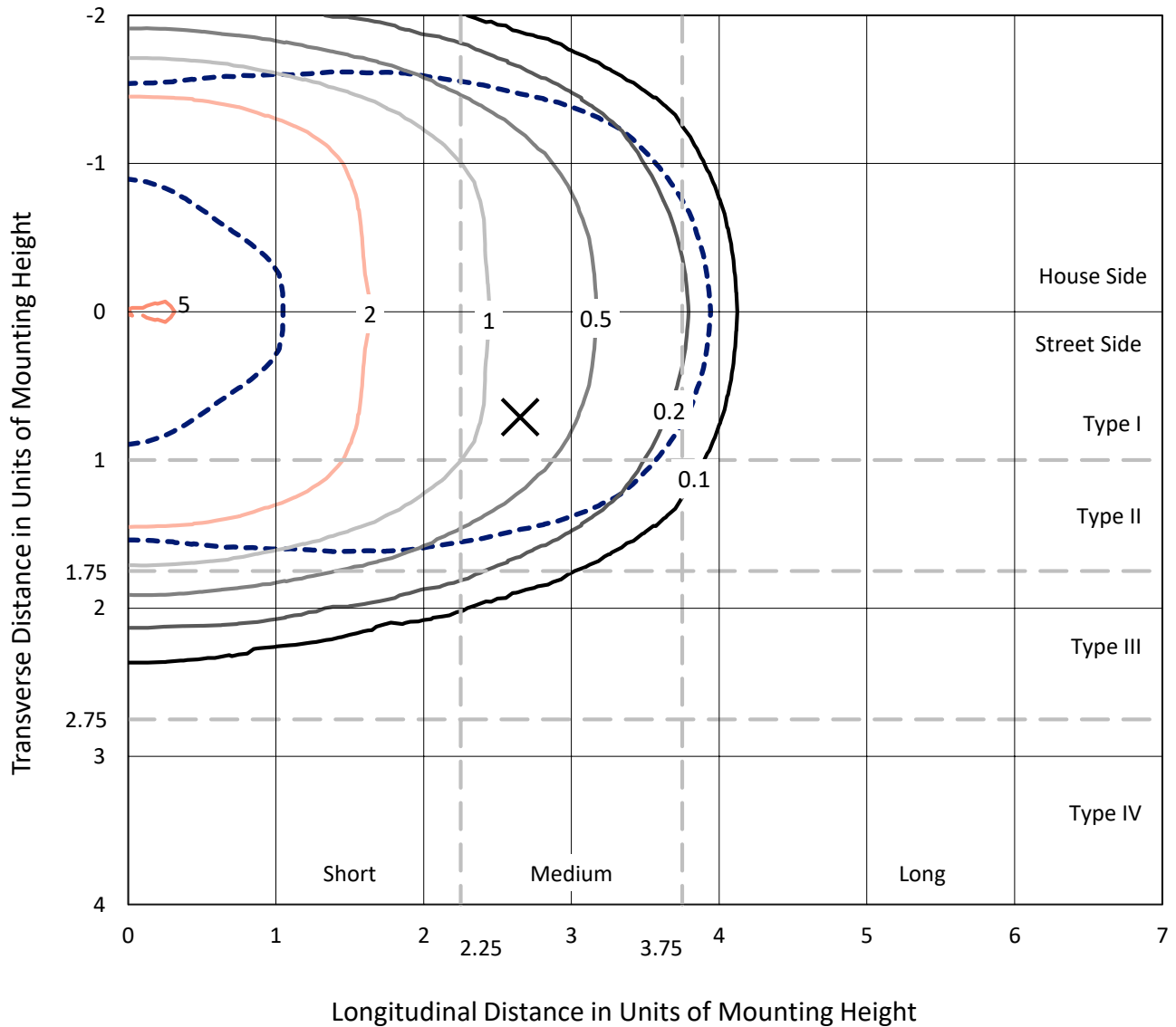
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191795
 CATALOG NUMBER: GLEON-AF-07-LED-E1-RW-7050-600

Iso-Footcandle Lines of Horizontal Illumination

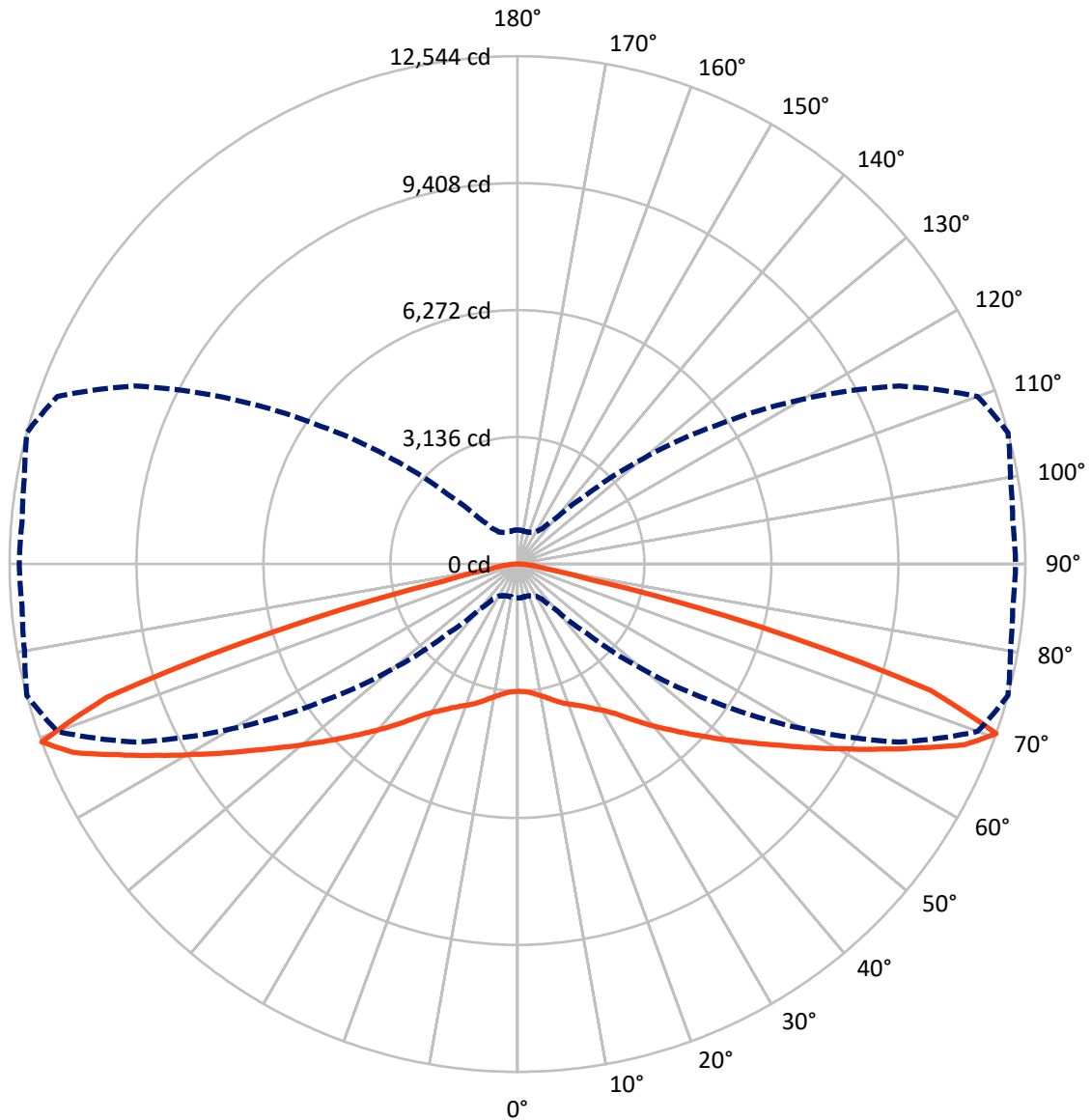
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P191795
CATALOG NUMBER: GLEON-AF-07-LED-E1-RW-7050-600

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GLEON-AF-07-LED-E1-RW-7050-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14178.0	0.0	14178.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14178.0	0.0	14178.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28356.0	0.0	28356.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.7	1.1
10°-20°	937.3	3.3
20°-30°	1764.2	6.2
30°-40°	3124.0	11.0
40°-50°	5224.3	18.4
50°-60°	7280.1	25.7
60°-70°	6751.1	23.8
70°-80°	2690.5	9.5
80°-90°	282.8	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°	28356.0	100.0
0°-180°	28356.0	100.0

Coefficient of Utilization



REPORT NUMBER: P191795

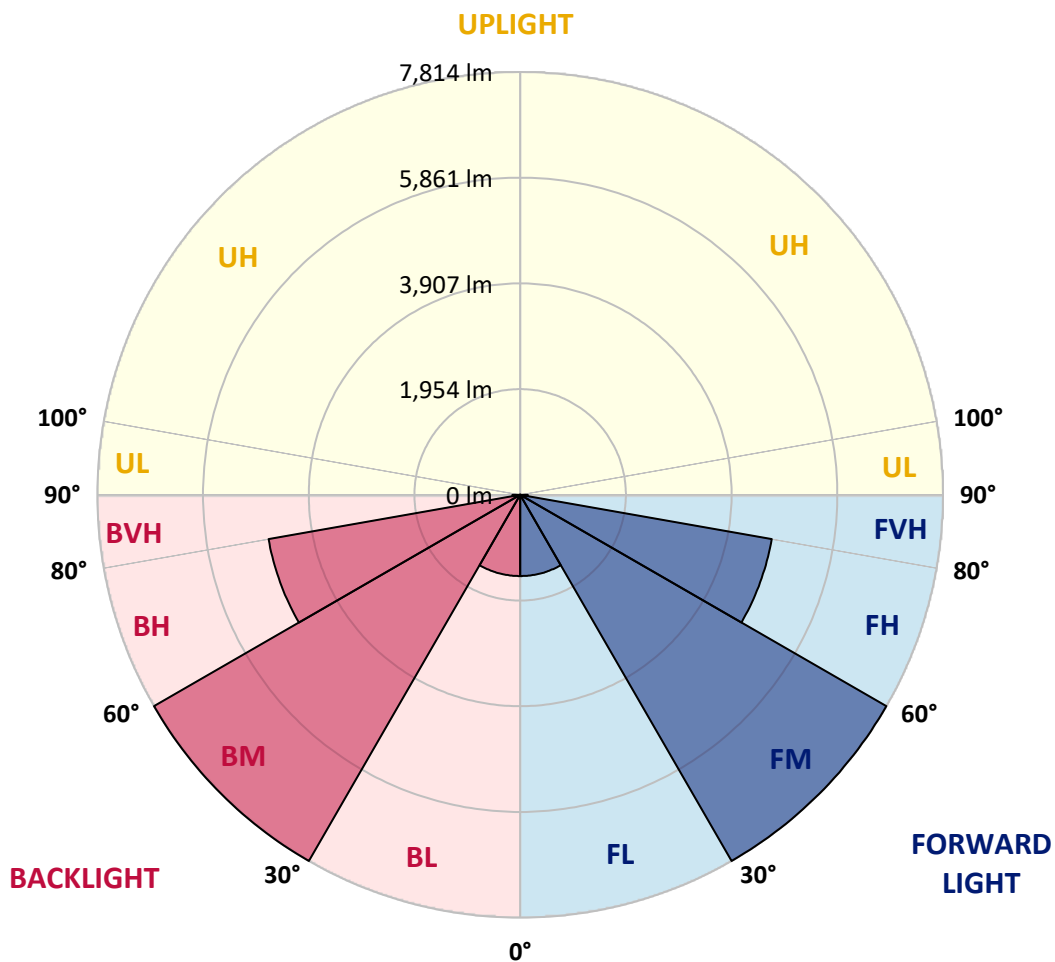
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1501.6	5.3			
FM	(30°-60°)	7814.2	27.6			
FH	(60°-80°)	4720.8	16.6			G2/5000
FVH	(80°-90°)	141.4	0.5			G2/225
BL	(0°-30°)	1501.6	5.3	B3/2500		
BM	(30°-60°)	7814.2	27.6	B4/8500		
BH	(60°-80°)	4720.8	16.6	B4/5000		G4/5000
BVH	(80°-90°)	141.4	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





REPORT NUMBER: P191795

CATALOG NUMBER: GLEON-AF-07-LED-E1-RW-7050-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3145.3	3145.3	3145.3	3145.3	3145.3	3145.3	3145.3	3145.3	3145.3	3145.3	3145.3
2.5°	3140.0	3137.3	3140.0	3138.6	3141.3	3141.3	3144.0	3149.4	3149.4	3153.4	3152.0
5°	3109.2	3107.8	3111.8	3115.9	3119.9	3127.9	3136.0	3148.0	3157.4	3164.1	3170.8
7.5°	3048.9	3048.9	3054.2	3063.6	3073.0	3090.4	3109.2	3133.3	3157.4	3177.5	3194.9
10°	2999.3	3001.9	3008.6	3024.7	3040.8	3067.6	3093.1	3127.9	3161.4	3194.9	3221.7
12.5°	2969.8	2973.8	2985.9	3010.0	3036.8	3073.0	3111.8	3156.1	3193.6	3233.8	3260.6
15°	2979.2	2981.8	2999.3	3028.7	3063.6	3109.2	3161.4	3213.7	3257.9	3300.8	3337.0
17.5°	3031.4	3035.4	3055.6	3089.1	3125.2	3178.8	3235.1	3294.1	3349.0	3397.3	3441.5
20°	3125.2	3129.3	3154.7	3190.9	3233.8	3288.7	3345.0	3406.7	3468.3	3519.2	3568.8
22.5°	3257.9	3264.6	3288.7	3324.9	3373.2	3432.1	3499.1	3564.8	3623.8	3670.7	3714.9
25°	3432.1	3446.9	3469.7	3509.9	3560.8	3614.4	3686.8	3753.8	3810.1	3854.3	3886.4
27.5°	3678.7	3698.8	3716.2	3755.1	3804.7	3855.6	3928.0	3987.0	4040.6	4083.4	4107.6
30°	4005.7	4025.8	4043.2	4080.8	4126.3	4174.6	4242.9	4295.2	4328.7	4362.2	4360.9
32.5°	4402.4	4423.8	4430.5	4470.8	4517.7	4569.9	4631.6	4661.1	4687.9	4691.9	4667.8
35°	4846.0	4856.7	4883.5	4937.1	4990.7	5033.6	5092.6	5107.3	5107.3	5087.2	5033.6
37.5°	5332.5	5339.2	5376.7	5437.0	5492.0	5536.2	5576.4	5605.9	5591.1	5548.2	5458.4
40°	5865.9	5877.9	5931.5	5985.1	6046.8	6088.3	6131.2	6136.6	6121.8	6058.8	5936.9
42.5°	6375.1	6385.8	6439.4	6523.9	6604.3	6661.9	6702.1	6710.2	6663.2	6605.6	6454.2
45°	6813.3	6841.5	6911.2	7010.3	7126.9	7208.7	7263.6	7286.4	7244.9	7169.8	6994.3
47.5°	7160.4	7188.6	7287.8	7405.7	7550.4	7683.1	7774.2	7822.5	7811.8	7755.5	7563.8
50°	7415.1	7441.9	7549.1	7693.8	7862.7	8027.5	8183.0	8298.2	8338.4	8313.0	8137.4
52.5°	7444.6	7488.8	7614.8	7809.1	8028.9	8254.0	8475.1	8670.8	8803.5	8823.6	8693.6
55°	7033.1	7077.4	7251.6	7539.7	7866.7	8233.9	8587.7	8917.4	9178.7	9312.7	9244.4
57.5°	6062.9	6141.9	6325.5	6663.2	7144.4	7693.8	8258.0	8843.7	9375.7	9730.9	9799.2
60°	4646.3	4740.1	4925.1	5284.2	5820.3	6475.6	7228.8	8094.5	9034.0	9832.7	10309.8
62.5°	2980.5	3069.0	3263.3	3575.5	4012.4	4722.7	5530.8	6558.7	7821.1	9082.2	10218.7
65°	1531.8	1580.0	1681.9	1870.9	2211.3	2742.0	3467.0	4492.2	5935.5	7491.5	9134.5
67.5°	970.3	979.7	1002.4	1029.2	1116.3	1299.9	1637.7	2276.9	3464.3	5087.2	7010.3
70°	838.9	838.9	828.2	824.2	834.9	860.4	912.6	1061.4	1462.1	2415.0	4043.2
72.5°	767.9	759.9	741.1	726.4	723.7	723.7	734.4	757.2	821.5	983.7	1582.7
75°	707.6	684.8	659.4	641.9	635.2	628.5	627.2	631.2	644.6	670.1	755.8
77.5°	633.9	604.4	574.9	557.5	549.5	540.1	532.0	522.7	516.0	524.0	561.5
80°	545.4	511.9	489.2	478.4	470.4	457.0	439.6	423.5	408.7	406.1	428.8
82.5°	439.6	400.7	402.0	406.1	391.3	372.6	353.8	336.4	310.9	297.5	310.9
85°	355.1	335.0	325.7	351.1	329.7	301.5	272.1	241.2	201.0	168.9	183.6
87.5°	138.0	138.0	206.4	317.6	285.5	233.2	199.7	170.2	105.9	81.7	83.1
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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CATALOG NUMBER: GLEON-AF-07-LED-E1-RW-7050-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3145.3	3145.3	3145.3	3145.3	3145.3	3145.3	3145.3	3145.3
2.5°	3150.7	3153.4	3152.0	3150.7	3150.7	3149.4	3150.7	3150.7
5°	3174.8	3181.5	3181.5	3184.2	3184.2	3185.5	3186.9	3185.5
7.5°	3211.0	3223.1	3231.1	3240.5	3241.8	3243.2	3245.9	3243.2
10°	3247.2	3271.3	3288.7	3306.2	3314.2	3316.9	3319.6	3319.6
12.5°	3292.8	3326.3	3357.1	3387.9	3402.7	3410.7	3410.7	3416.1
15°	3367.8	3401.3	3437.5	3479.0	3504.5	3517.9	3521.9	3521.9
17.5°	3473.7	3503.2	3534.0	3574.2	3606.4	3623.8	3627.8	3626.5
20°	3597.0	3625.1	3642.5	3668.0	3696.1	3716.2	3721.6	3721.6
22.5°	3737.7	3753.8	3756.5	3764.5	3787.3	3814.1	3826.1	3828.8
25°	3893.1	3897.2	3886.4	3886.4	3901.2	3926.7	3938.7	3940.1
27.5°	4094.2	4074.1	4047.3	4037.9	4047.3	4076.7	4091.5	4096.9
30°	4344.8	4296.5	4234.9	4201.4	4196.0	4234.9	4261.7	4265.7
32.5°	4631.6	4561.9	4480.1	4411.8	4394.4	4418.5	4450.7	4449.3
35°	4972.0	4888.9	4789.7	4702.6	4662.4	4686.5	4732.1	4737.4
37.5°	5364.6	5256.1	5142.2	5032.3	4969.3	4976.0	5024.2	5040.3
40°	5802.9	5662.2	5518.8	5371.3	5281.5	5264.1	5323.1	5332.5
42.5°	6271.9	6091.0	5910.1	5727.8	5612.6	5585.8	5654.1	5650.1
45°	6771.8	6541.3	6329.5	6128.5	5991.8	5951.6	6007.9	6007.9
47.5°	7309.2	7025.1	6773.1	6545.3	6396.6	6338.9	6392.5	6396.6
50°	7878.8	7577.2	7281.1	7027.8	6849.5	6775.8	6845.5	6856.2
52.5°	8445.6	8152.2	7853.3	7563.8	7348.1	7258.3	7338.7	7373.5
55°	9020.6	8732.4	8447.0	8164.2	7908.2	7802.4	7888.1	7932.4
57.5°	9627.7	9361.0	9088.9	8803.5	8556.9	8392.0	8483.2	8542.1
60°	10339.3	10111.5	9828.7	9513.8	9264.5	9097.0	9149.2	9201.5
62.5°	10902.2	10990.6	10750.7	10386.2	10065.9	9851.5	9902.4	9957.3
65°	10630.1	11537.4	11750.5	11381.9	10938.3	10604.6	10583.2	10611.3
67.5°	8885.2	10647.5	11932.7	12283.9	11912.6	11448.9	11363.2	11404.7
70°	5943.6	8138.8	10406.3	12094.9	12543.8	12364.3	12279.8	12305.3
72.5°	2854.5	4740.1	7059.9	9304.7	10671.6	11298.8	11499.9	11597.7
75°	1044.0	1881.6	3402.7	5127.4	6190.2	7165.8	7802.4	8062.4
77.5°	629.9	759.9	1086.9	1636.3	1853.4	2074.6	1988.8	2031.7
80°	466.4	526.7	596.4	670.1	694.2	694.2	667.4	646.0
82.5°	327.0	365.9	399.4	439.6	450.3	430.2	353.8	281.4
85°	210.4	227.8	242.6	268.0	261.3	249.3	167.5	148.8
87.5°	96.5	109.9	115.3	127.3	122.0	116.6	83.1	69.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)