

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: P193536

Luminaire Tested: **GLEON-AF-08-LED-E1-RW-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193536
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-08-LED-E1-RW-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26217 lumens
Efficiency: N/A
Efficacy: 102.0 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): 257
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

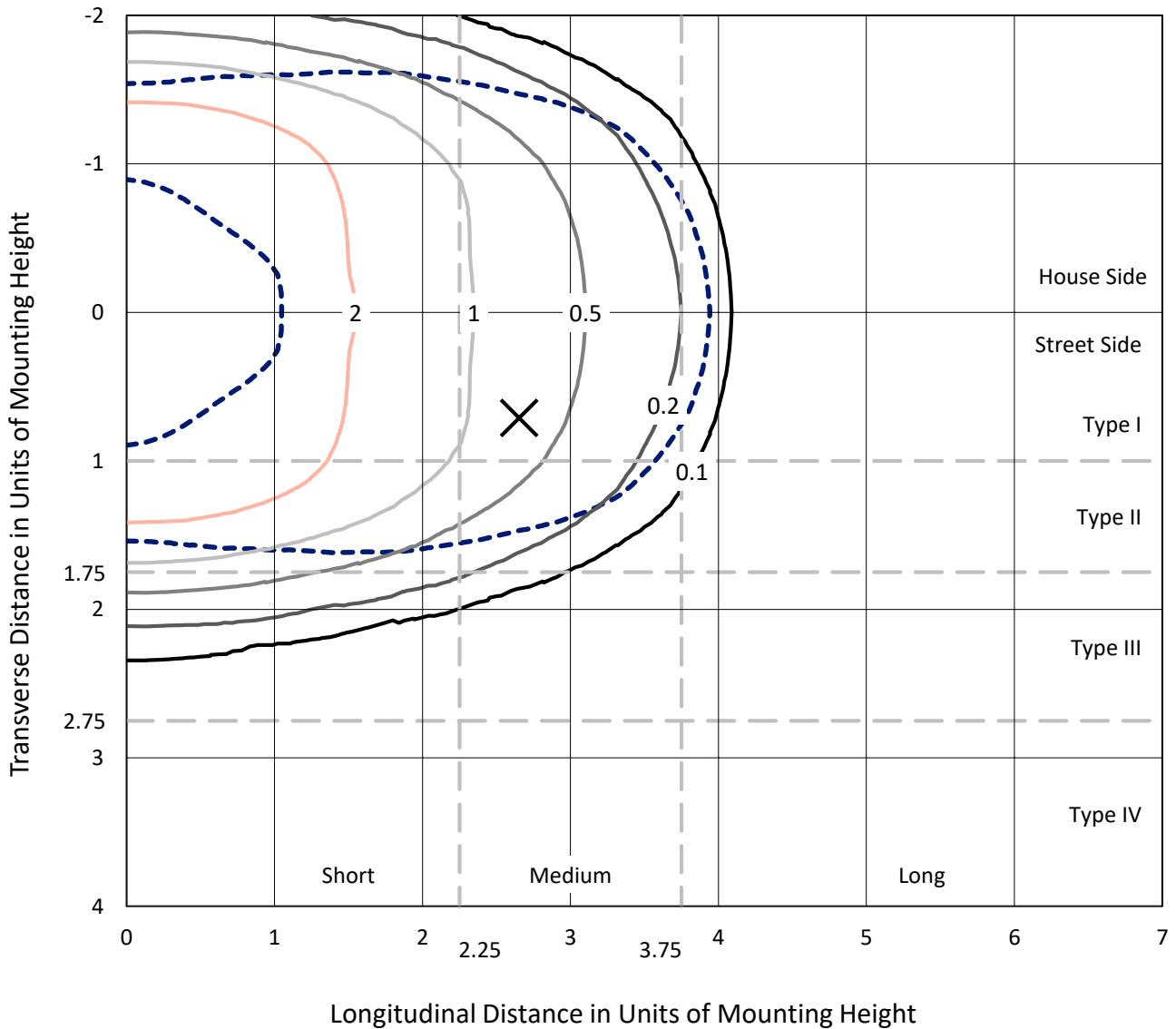


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Iso-Footcandle Lines of Horizontal Illumination

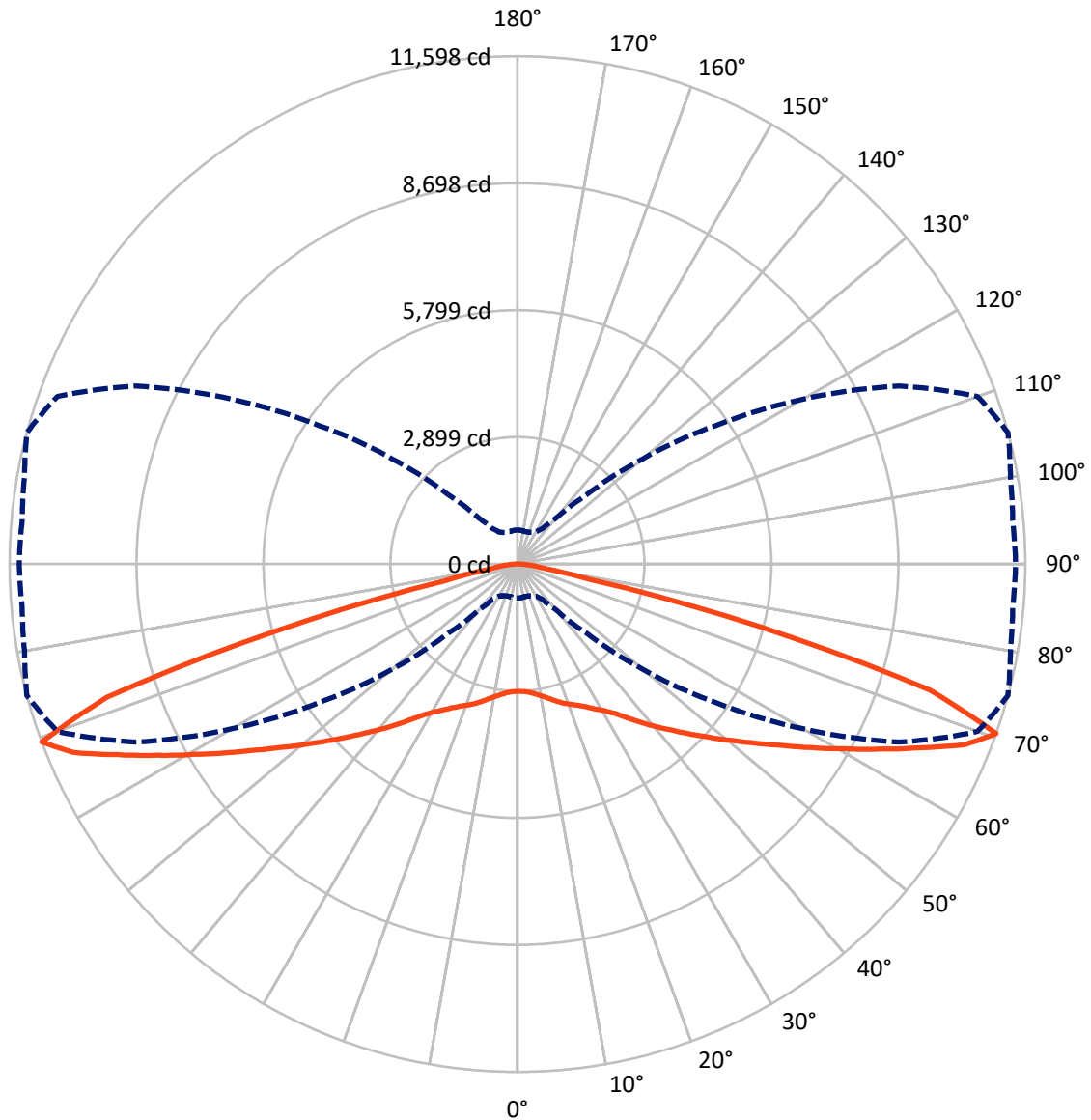
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	13108.5	0.0	13108.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13108.5	0.0	13108.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26217.0	0.0	26217.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.9	1.1
10°-20°	866.6	3.3
20°-30°	1631.1	6.2
30°-40°	2888.3	11.0
40°-50°	4830.2	18.4
50°-60°	6730.9	25.7
60°-70°	6241.9	23.8
70°-80°	2487.6	9.5
80°-90°	261.5	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°	26217.0	100.0
0°-180°	26217.0	100.0



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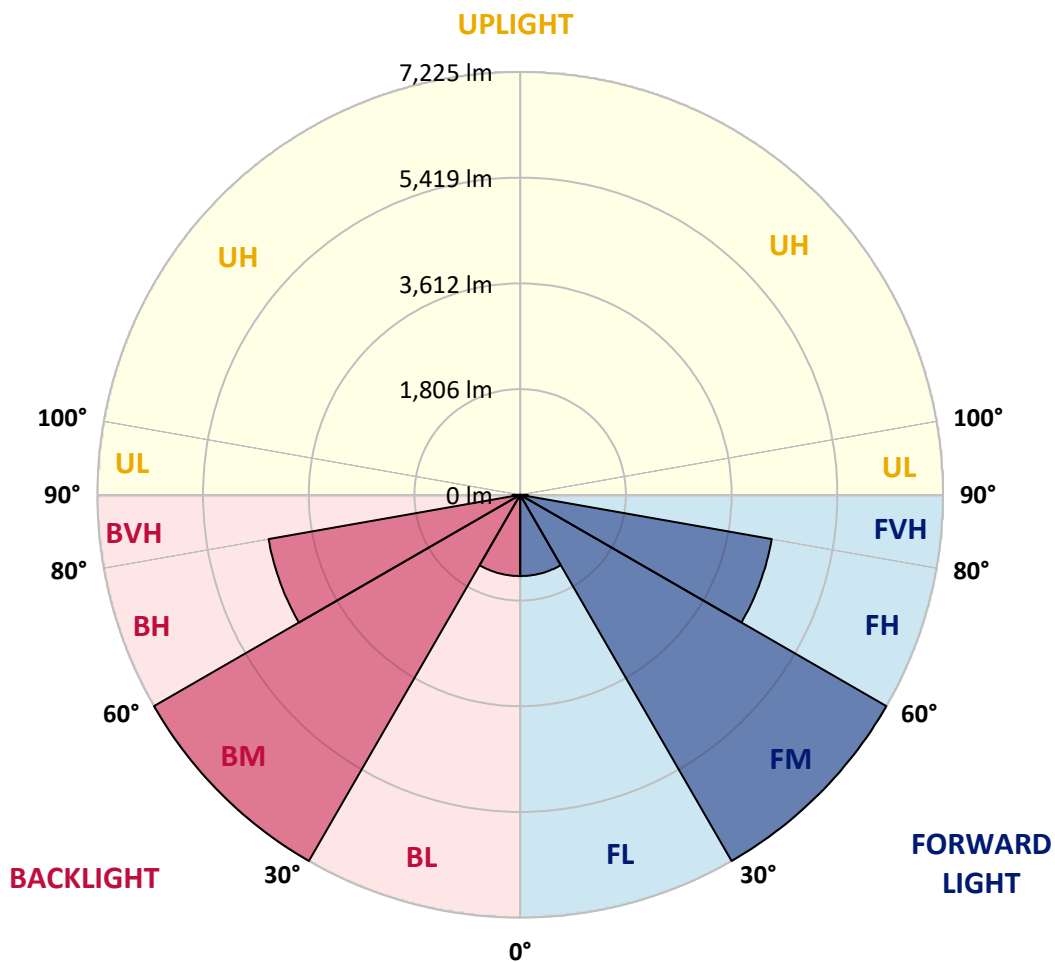
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1388.3	5.3			
FM	(30°-60°)	7224.7	27.6			
FH	(60°-80°)	4364.7	16.6			G2/5000
FVH	(80°-90°)	130.7	0.5			G2/225
BL	(0°-30°)	1388.3	5.3	B3/2500		
BM	(30°-60°)	7224.7	27.6	B4/8500		
BH	(60°-80°)	4364.7	16.6	B4/5000		G4/5000
BVH	(80°-90°)	130.7	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°	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1
2.5°	2903.1	2900.6	2903.1	2901.9	2904.4	2904.4	2906.8	2911.8	2911.8	2915.5	2914.3
5°	2874.6	2873.4	2877.1	2880.8	2884.5	2892.0	2899.4	2910.6	2919.2	2925.4	2931.6
7.5°	2818.9	2818.9	2823.8	2832.5	2841.2	2857.3	2874.6	2896.9	2919.2	2937.8	2953.9
10°	2773.0	2775.5	2781.7	2796.6	2811.4	2836.2	2859.8	2892.0	2922.9	2953.9	2978.7
12.5°	2745.8	2749.5	2760.6	2782.9	2807.7	2841.2	2877.1	2918.0	2952.7	2989.9	3014.6
15°	2754.4	2756.9	2773.0	2800.3	2832.5	2874.6	2922.9	2971.3	3012.2	3051.8	3085.3
17.5°	2802.8	2806.5	2825.1	2856.0	2889.5	2939.1	2991.1	3045.6	3096.4	3141.0	3181.9
20°	2889.5	2893.2	2916.7	2950.2	2989.9	3040.7	3092.7	3149.7	3206.7	3253.8	3299.6
22.5°	3012.2	3018.4	3040.7	3074.1	3118.7	3173.2	3235.2	3295.9	3350.4	3393.8	3434.7
25°	3173.2	3186.9	3207.9	3245.1	3292.2	3341.7	3408.7	3470.6	3522.7	3563.5	3593.3
27.5°	3401.2	3419.8	3435.9	3471.8	3517.7	3564.8	3631.7	3686.2	3735.8	3775.4	3797.7
30°	3703.6	3722.1	3738.2	3772.9	3815.1	3859.7	3922.9	3971.2	4002.2	4033.1	4031.9
32.5°	4070.3	4090.1	4096.3	4133.5	4176.9	4225.2	4282.2	4309.5	4334.2	4338.0	4315.6
35°	4480.4	4490.4	4515.1	4564.7	4614.3	4653.9	4708.4	4722.1	4722.1	4703.5	4653.9
37.5°	4930.2	4936.4	4971.1	5026.9	5077.7	5118.6	5155.7	5183.0	5169.4	5129.7	5046.7
40°	5423.4	5434.5	5484.1	5533.6	5590.6	5629.1	5668.7	5673.7	5660.0	5601.8	5489.0
42.5°	5894.2	5904.1	5953.7	6031.7	6106.1	6159.4	6196.5	6204.0	6160.6	6107.3	5967.3
45°	6299.4	6325.4	6389.8	6481.5	6589.3	6664.9	6715.7	6736.8	6698.4	6629.0	6466.7
47.5°	6620.3	6646.3	6738.0	6847.1	6980.9	7103.5	7187.8	7232.4	7222.5	7170.4	6993.3
50°	6855.7	6880.5	6979.6	7113.4	7269.6	7422.0	7565.7	7672.3	7709.4	7685.9	7523.6
52.5°	6883.0	6923.9	7040.3	7220.0	7423.2	7631.4	7835.8	8016.7	8139.4	8158.0	8037.8
55°	6502.6	6543.5	6704.6	6971.0	7273.3	7612.8	7939.9	8244.7	8486.3	8610.2	8547.0
57.5°	5605.5	5678.6	5848.4	6160.6	6605.4	7113.4	7635.1	8176.6	8668.5	8996.8	9060.0
60°	4295.8	4382.6	4553.5	4885.6	5381.2	5987.1	6683.5	7483.9	8352.5	9091.0	9532.1
62.5°	2755.7	2837.4	3017.1	3305.8	3709.7	4366.5	5113.6	6064.0	7231.2	8397.1	9447.8
65°	1416.2	1460.9	1555.0	1729.7	2044.5	2535.1	3205.5	4153.3	5487.8	6926.4	8445.4
67.5°	897.1	905.8	926.8	951.6	1032.1	1201.9	1514.1	2105.2	3203.0	4703.5	6481.5
70°	775.7	775.7	765.7	762.0	771.9	795.5	843.8	981.3	1351.8	2232.8	3738.2
72.5°	710.0	702.5	685.2	671.6	669.1	669.1	679.0	700.1	759.5	909.5	1463.3
75°	654.2	633.2	609.6	593.5	587.3	581.1	579.9	583.6	596.0	619.5	698.8
77.5°	586.1	558.8	531.6	515.4	508.0	499.3	491.9	483.2	477.0	484.5	519.2
80°	504.3	473.3	452.3	442.3	434.9	422.5	406.4	391.5	377.9	375.4	396.5
82.5°	406.4	370.5	371.7	375.4	361.8	344.5	327.1	311.0	287.5	275.1	287.5
85°	328.4	309.8	301.1	324.6	304.8	278.8	251.5	223.0	185.9	156.1	169.8
87.5°	127.6	127.6	190.8	293.7	263.9	215.6	184.6	157.4	97.9	75.6	76.8
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°	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1	2908.1
2.5°	2913.0	2915.5	2914.3	2913.0	2913.0	2911.8	2913.0	2913.0
5°	2935.3	2941.5	2941.5	2944.0	2944.0	2945.2	2946.5	2945.2
7.5°	2968.8	2979.9	2987.4	2996.0	2997.3	2998.5	3001.0	2998.5
10°	3002.2	3024.5	3040.7	3056.8	3064.2	3066.7	3069.2	3069.2
12.5°	3044.4	3075.3	3103.8	3132.3	3146.0	3153.4	3153.4	3158.4
15°	3113.8	3144.7	3178.2	3216.6	3240.1	3252.5	3256.3	3256.3
17.5°	3211.6	3238.9	3267.4	3304.6	3334.3	3350.4	3354.1	3352.9
20°	3325.6	3351.7	3367.8	3391.3	3417.3	3435.9	3440.9	3440.9
22.5°	3455.7	3470.6	3473.1	3480.5	3501.6	3526.4	3537.5	3540.0
25°	3599.5	3603.2	3593.3	3593.3	3606.9	3630.4	3641.6	3642.8
27.5°	3785.3	3766.7	3742.0	3733.3	3742.0	3769.2	3782.9	3787.8
30°	4017.0	3972.4	3915.4	3884.5	3879.5	3915.4	3940.2	3943.9
32.5°	4282.2	4217.8	4142.2	4079.0	4062.9	4085.2	4114.9	4113.7
35°	4596.9	4520.1	4428.4	4347.9	4310.7	4333.0	4375.1	4380.1
37.5°	4960.0	4859.6	4754.3	4652.7	4594.4	4600.6	4645.2	4660.1
40°	5365.1	5235.0	5102.5	4966.2	4883.1	4867.0	4921.6	4930.2
42.5°	5798.8	5631.5	5464.3	5295.7	5189.2	5164.4	5227.6	5223.9
45°	6261.0	6047.9	5852.1	5666.2	5539.8	5502.7	5554.7	5554.7
47.5°	6757.8	6495.2	6262.2	6051.6	5914.0	5860.8	5910.3	5914.0
50°	7284.4	7005.7	6731.8	6497.6	6332.8	6264.7	6329.1	6339.0
52.5°	7808.6	7537.2	7260.9	6993.3	6793.8	6710.8	6785.1	6817.3
55°	8340.1	8073.7	7809.8	7548.4	7311.7	7213.8	7293.1	7334.0
57.5°	8901.4	8654.8	8403.3	8139.4	7911.4	7759.0	7843.3	7897.8
60°	9559.4	9348.7	9087.3	8796.1	8565.6	8410.7	8459.1	8507.4
62.5°	10079.8	10161.5	9939.7	9602.7	9306.6	9108.3	9155.4	9206.2
65°	9828.2	10667.1	10864.1	10523.3	10113.2	9804.7	9784.9	9810.9
67.5°	8215.0	9844.3	11032.6	11357.2	11014.0	10585.3	10506.0	10544.4
70°	5495.2	7524.8	9621.3	11182.5	11597.6	11431.6	11353.5	11377.1
72.5°	2639.2	4382.6	6527.4	8602.8	9866.6	10446.5	10632.4	10722.8
75°	965.2	1739.6	3146.0	4740.6	5723.2	6625.3	7213.8	7454.2
77.5°	582.4	702.5	1004.9	1512.9	1713.6	1918.1	1838.8	1878.4
80°	431.2	487.0	551.4	619.5	641.8	641.8	617.1	597.2
82.5°	302.3	338.3	369.2	406.4	416.3	397.7	327.1	260.2
85°	194.5	210.6	224.3	247.8	241.6	230.5	154.9	137.5
87.5°	89.2	101.6	106.6	117.7	112.8	107.8	76.8	64.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)