

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: P190878

Luminaire Tested: **GLEON-AF-10-LED-E1-5WQ-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-5WQ-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41826.4 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

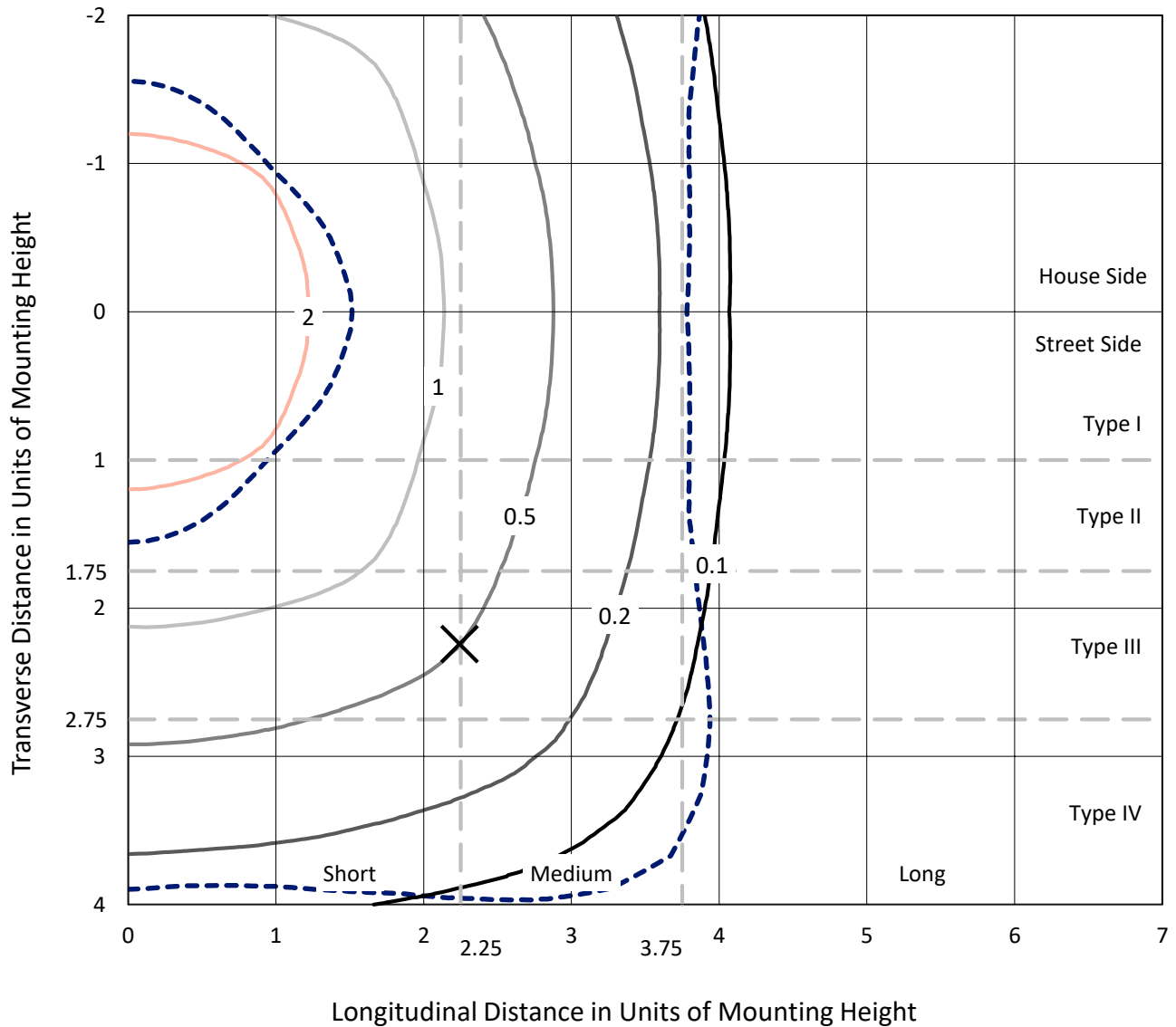
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

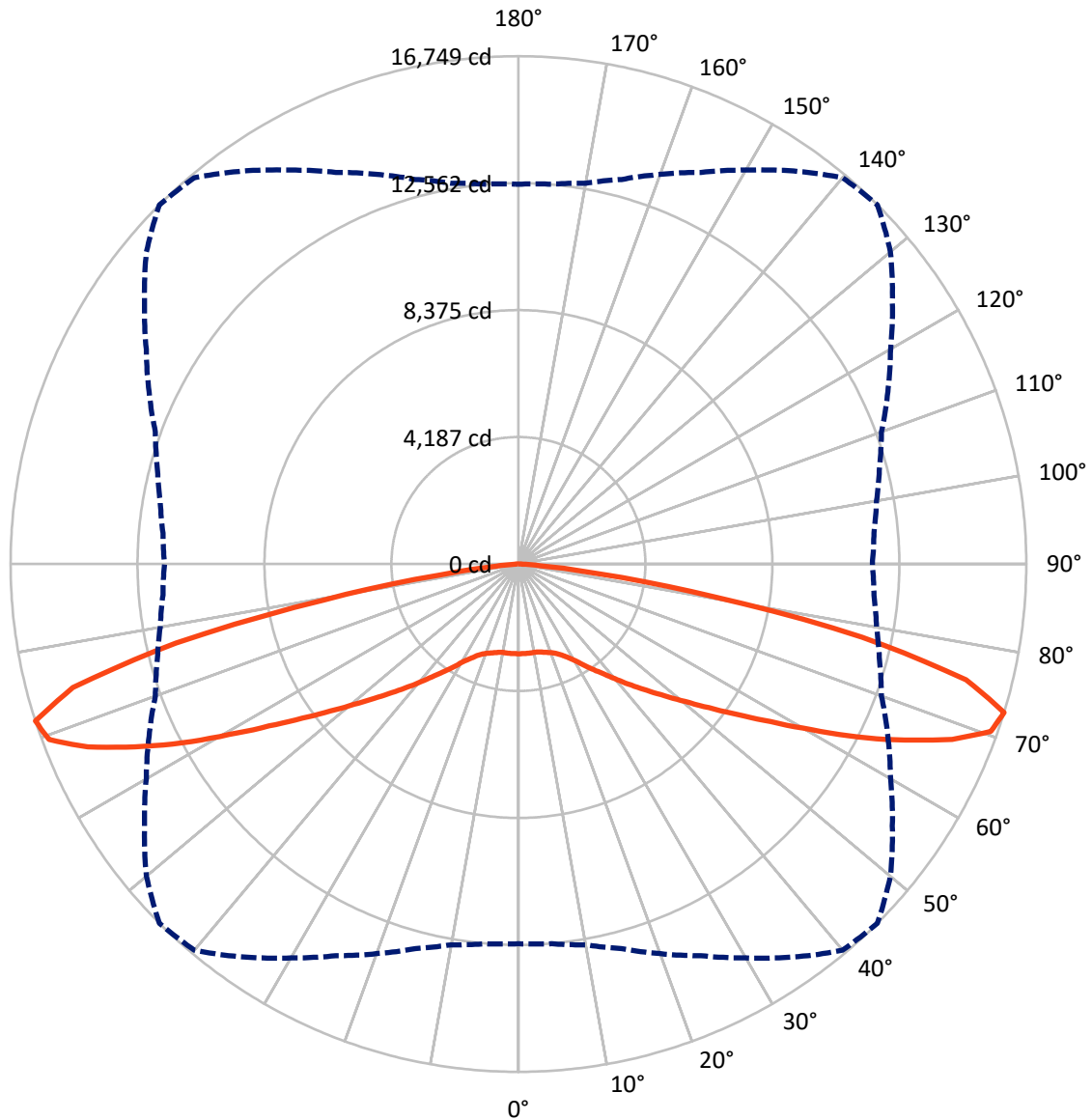
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20913.2	0.0	20913.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20913.2	0.0	20913.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	41826.4	0.0	41826.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.8	0.7
10°-20°	859.0	2.1
20°-30°	1569.7	3.8
30°-40°	2706.5	6.5
40°-50°	4626.7	11.1
50°-60°	7499.3	17.9
60°-70°	12441.1	29.7
70°-80°	10957.7	26.2
80°-90°	883.5	2.1
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°	41826.4	100.0
0°-180°	41826.4	100.0



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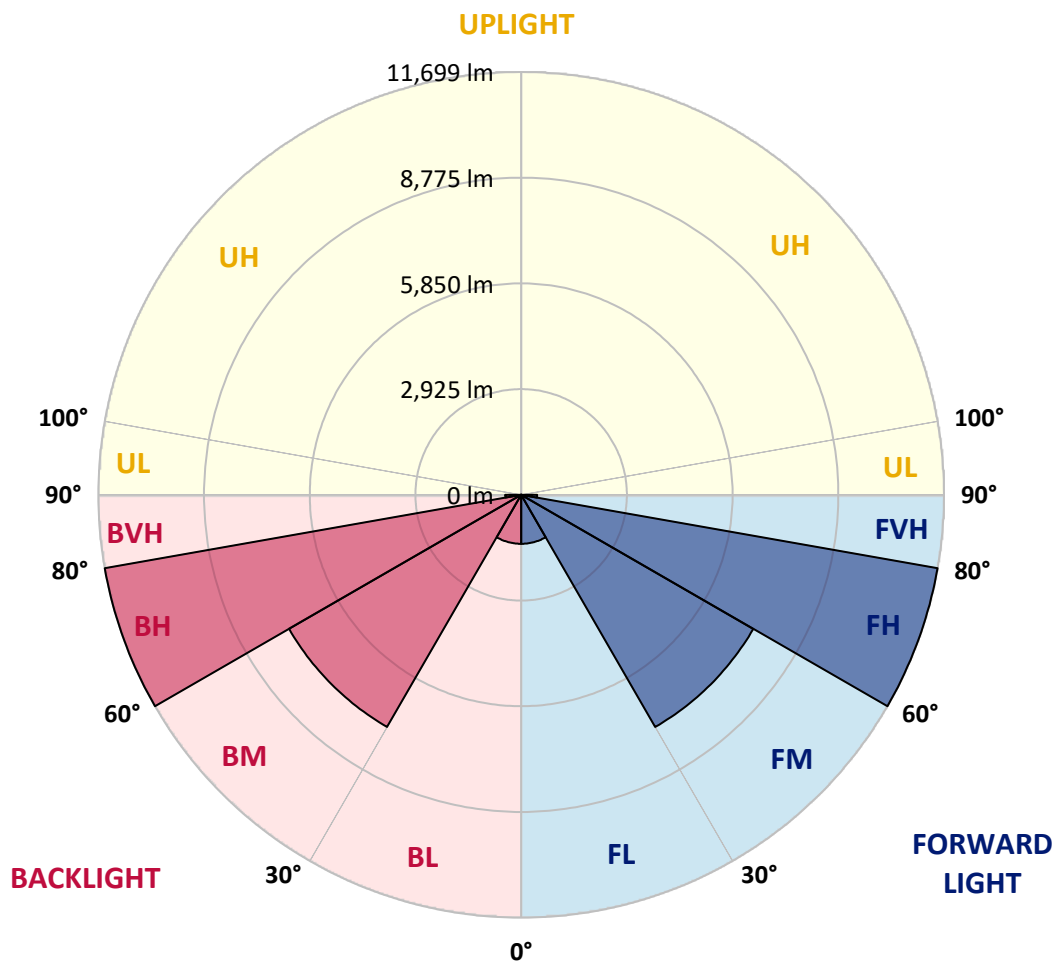
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1355.8	3.2			
FM	(30°-60°)	7416.3	17.7			
FH	(60°-80°)	11699.4	28.0			G4/12000
FVH	(80°-90°)	441.7	1.1			G3/500
BL	(0°-30°)	1355.8	3.2	B3/2500		
BM	(30°-60°)	7416.3	17.7	B4/8500		
BH	(60°-80°)	11699.4	28.0	B5		G4/12000
BVH	(80°-90°)	441.7	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2962.0	2962.0	2962.0	2962.0	2962.0	2962.0	2962.0	2962.0	2962.0	2962.0	2962.0
2.5°	2962.0	2963.9	2965.8	2963.9	2963.9	2962.0	2960.0	2962.0	2960.0	2956.2	2958.2
5°	2971.6	2975.4	2975.4	2971.6	2973.5	2971.6	2967.7	2969.6	2965.8	2960.0	2960.0
7.5°	2983.0	2985.0	2985.0	2981.2	2983.0	2979.2	2975.4	2973.5	2969.6	2962.0	2956.2
10°	3000.3	3002.3	3000.3	2996.5	2996.5	2990.7	2981.2	2977.3	2969.6	2958.2	2952.3
12.5°	3019.5	3021.4	3019.5	3015.7	3013.7	3004.2	2996.5	2990.7	2985.0	2975.4	2965.8
15°	3046.3	3050.2	3046.3	3038.7	3032.9	3025.3	3021.4	3023.3	3025.3	3017.6	3008.0
17.5°	3096.3	3098.2	3092.4	3075.1	3067.4	3059.7	3059.7	3063.6	3069.4	3065.6	3056.0
20°	3188.3	3182.6	3169.1	3148.0	3138.4	3125.0	3123.1	3125.0	3125.0	3123.1	3115.4
22.5°	3303.4	3299.6	3282.3	3255.4	3242.0	3234.4	3222.9	3213.3	3211.3	3205.6	3197.9
25°	3441.5	3439.7	3418.5	3395.5	3386.0	3376.4	3366.7	3353.3	3341.8	3328.4	3320.7
27.5°	3618.1	3610.4	3579.7	3568.2	3554.8	3549.0	3535.5	3520.2	3510.6	3493.4	3483.8
30°	3811.8	3811.8	3786.9	3783.0	3783.0	3769.6	3754.2	3727.4	3710.1	3692.9	3687.1
32.5°	4005.6	4007.5	3982.6	3990.2	3996.0	4005.6	4009.4	3999.8	3988.3	3986.3	3974.9
35°	4285.7	4278.0	4253.0	4258.7	4256.9	4255.0	4255.0	4276.0	4279.9	4283.7	4260.7
37.5°	4632.8	4632.8	4607.9	4607.9	4596.4	4584.9	4569.5	4583.0	4604.1	4609.8	4594.5
40°	5030.0	5043.4	5012.7	5010.8	5014.6	4978.2	4960.9	4982.0	4995.5	5018.5	5001.2
42.5°	5498.1	5488.4	5457.7	5454.0	5432.8	5421.3	5406.0	5423.3	5444.3	5459.7	5465.4
45°	5946.9	5939.3	5904.8	5904.8	5883.6	5874.1	5881.8	5910.5	5920.1	5941.2	5962.3
47.5°	6390.1	6380.5	6357.4	6367.1	6369.0	6386.3	6411.1	6438.0	6464.9	6493.7	6503.3
50°	6842.8	6844.8	6819.8	6842.8	6871.6	6919.5	6986.7	7030.8	7086.5	7122.9	7134.4
52.5°	7255.3	7263.0	7289.8	7343.6	7401.0	7495.1	7610.1	7717.6	7809.7	7871.1	7867.2
55°	7750.2	7761.7	7826.9	7919.1	8013.0	8155.0	8325.7	8515.7	8669.1	8757.4	8701.7
57.5°	8383.3	8408.2	8481.1	8605.8	8745.8	8930.0	9164.0	9449.9	9687.8	9806.7	9716.5
60°	9252.3	9267.6	9355.9	9494.0	9662.8	9891.1	10203.8	10587.4	10923.2	11080.5	10976.9
62.5°	10397.6	10426.3	10497.3	10637.4	10810.0	11068.9	11450.7	11930.4	12348.6	12567.3	12333.2
65°	11765.4	11857.4	11916.9	12058.9	12220.0	12494.3	12893.4	13407.5	13856.4	14000.2	13729.7
67.5°	13119.8	13200.3	13303.9	13466.9	13630.0	13938.8	14309.1	14807.9	15300.9	15431.3	15011.2
70°	13712.5	13758.5	13919.7	14142.2	14454.9	14819.4	15247.2	15807.4	16417.4	16524.8	15991.5
72.5°	12525.0	12571.0	12751.4	13129.3	13674.1	14253.5	14999.7	15822.7	16628.4	16749.3	16014.5
75°	9472.9	9398.1	9664.7	10165.5	10900.2	11707.8	12751.4	13931.2	15095.7	15247.2	14370.5
77.5°	4895.6	4886.1	5087.5	5709.1	6585.8	7504.7	8653.8	9987.1	11126.5	11587.0	10873.4
80°	1379.3	1394.7	1490.5	1799.5	2311.7	2975.4	3873.2	5122.0	6054.3	6530.1	6131.1
82.5°	540.9	583.2	619.6	677.2	744.3	842.2	1124.1	1672.8	2244.5	2681.9	2196.5
85°	193.7	207.1	293.5	347.2	353.0	372.1	423.9	494.9	596.6	711.7	585.1
87.5°	72.9	80.6	94.0	155.4	153.4	140.0	170.7	178.4	134.3	122.8	151.6
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°	2962.0	2962.0	2962.0	2962.0	2962.0	2962.0	2962.0	2962.0
2.5°	2954.3	2956.2	2956.2	2958.2	2960.0	2960.0	2963.9	2963.9
5°	2956.2	2956.2	2952.3	2954.3	2952.3	2952.3	2954.3	2954.3
7.5°	2952.3	2950.5	2946.6	2944.7	2940.9	2940.9	2940.9	2940.9
10°	2946.6	2944.7	2940.9	2938.9	2937.0	2937.0	2937.0	2937.0
12.5°	2962.0	2956.2	2952.3	2950.5	2950.5	2950.5	2950.5	2950.5
15°	3002.3	2988.9	2979.2	2979.2	2981.2	2985.0	2985.0	2988.9
17.5°	3052.1	3036.7	3027.2	3019.5	3023.3	3029.1	3032.9	3036.7
20°	3111.6	3103.9	3090.5	3082.9	3082.9	3090.5	3094.3	3096.3
22.5°	3194.1	3188.3	3182.6	3173.0	3173.0	3176.8	3184.4	3184.4
25°	3316.8	3313.0	3309.1	3301.5	3299.6	3299.6	3303.4	3307.3
27.5°	3470.4	3472.2	3468.4	3466.5	3460.7	3458.8	3464.5	3462.7
30°	3675.6	3685.2	3694.8	3687.1	3677.5	3671.8	3666.1	3658.3
32.5°	3953.7	3942.2	3934.6	3921.2	3903.9	3888.5	3877.0	3863.6
35°	4216.6	4197.4	4189.7	4201.3	4199.3	4189.7	4176.3	4164.7
37.5°	4538.8	4535.0	4538.8	4560.0	4556.1	4565.7	4538.8	4536.9
40°	4945.6	4949.3	4976.2	5001.2	5014.6	5028.0	5012.7	4997.3
42.5°	5417.4	5415.5	5425.1	5459.7	5482.7	5498.1	5465.4	5461.6
45°	5916.2	5902.8	5910.5	5939.3	5962.3	5979.6	5943.1	5943.1
47.5°	6464.9	6441.8	6417.0	6449.6	6463.0	6474.5	6445.7	6436.1
50°	7076.9	7028.9	6975.2	6988.6	6988.6	6984.8	6948.3	6946.4
52.5°	7779.0	7690.7	7592.9	7556.4	7535.4	7512.3	7449.0	7418.3
55°	8586.6	8454.3	8300.7	8206.8	8156.9	8093.6	7988.1	7959.3
57.5°	9530.4	9323.3	9058.5	8943.5	8832.2	8728.5	8611.5	8579.0
60°	10648.8	10343.9	9992.8	9779.8	9659.0	9559.3	9438.4	9432.6
62.5°	11895.8	11414.3	11017.2	10825.4	10737.1	10648.8	10533.7	10549.1
65°	13163.8	12661.3	12289.0	12133.6	12051.2	11978.2	11863.2	11880.4
67.5°	14414.6	13952.3	13543.7	13384.5	13292.3	13200.3	13096.7	13113.9
70°	15312.4	14738.8	14278.4	13925.4	13704.8	13455.4	13294.3	13254.0
72.5°	15055.4	14170.9	13440.0	12739.8	12329.3	11995.5	11769.2	11671.4
75°	13029.5	11821.0	10881.0	10021.5	9538.1	9144.9	8859.1	8680.7
77.5°	9676.3	8318.0	7207.3	6217.4	5434.7	4909.1	4538.8	4299.1
80°	5296.6	4028.6	2944.7	2069.9	1521.2	1264.2	1116.4	1045.6
82.5°	1649.8	1064.7	784.6	677.2	629.2	602.4	558.2	487.2
85°	525.6	460.4	427.8	408.6	389.4	339.5	234.1	213.0
87.5°	203.4	209.1	207.1	195.7	199.5	143.8	115.1	101.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)