

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: P190904

Luminaire Tested: **GLEON-AF-06-LED-E1-5WQ-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190904
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-06-LED-E1-5WQ-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42080.1 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

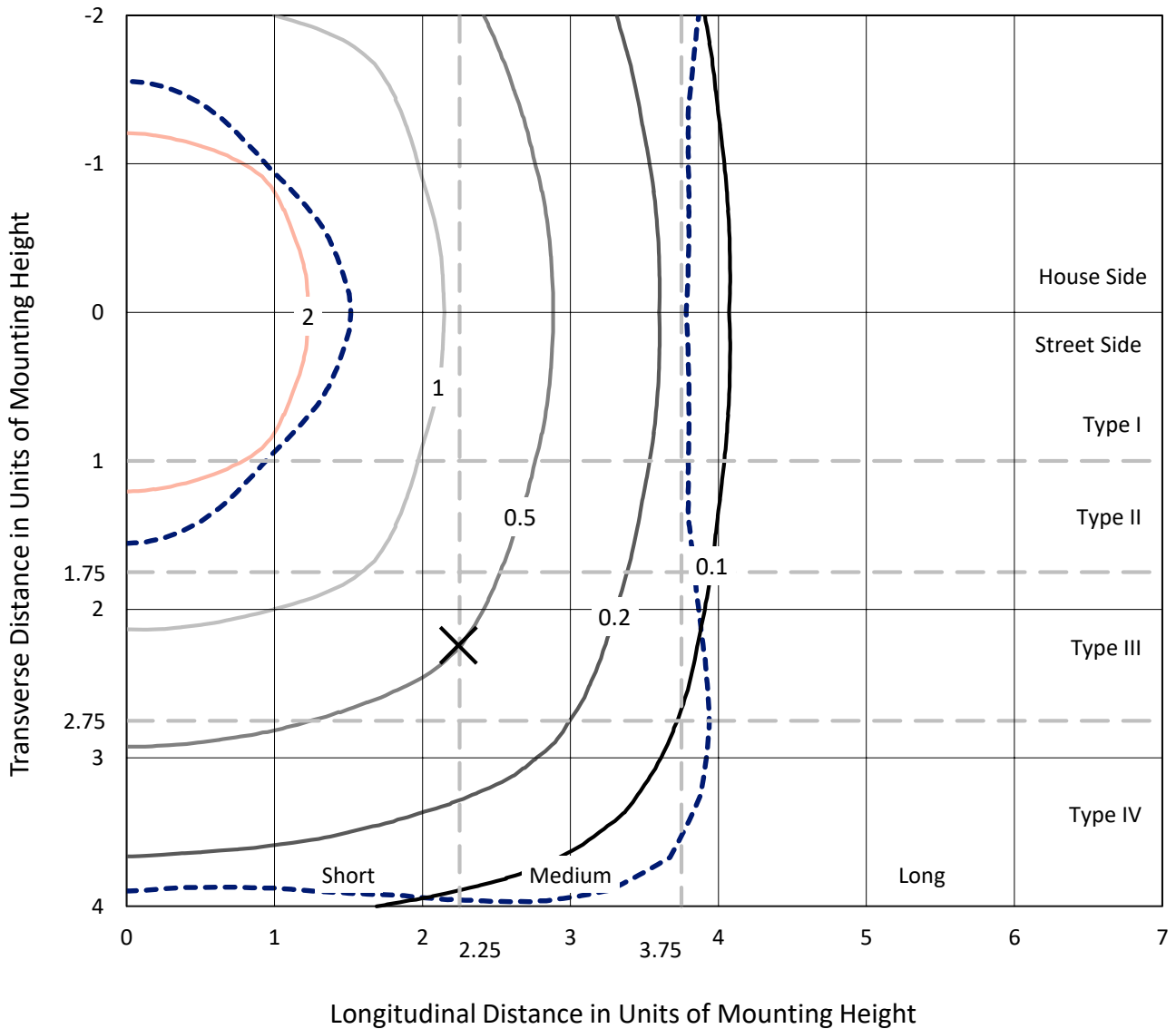
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

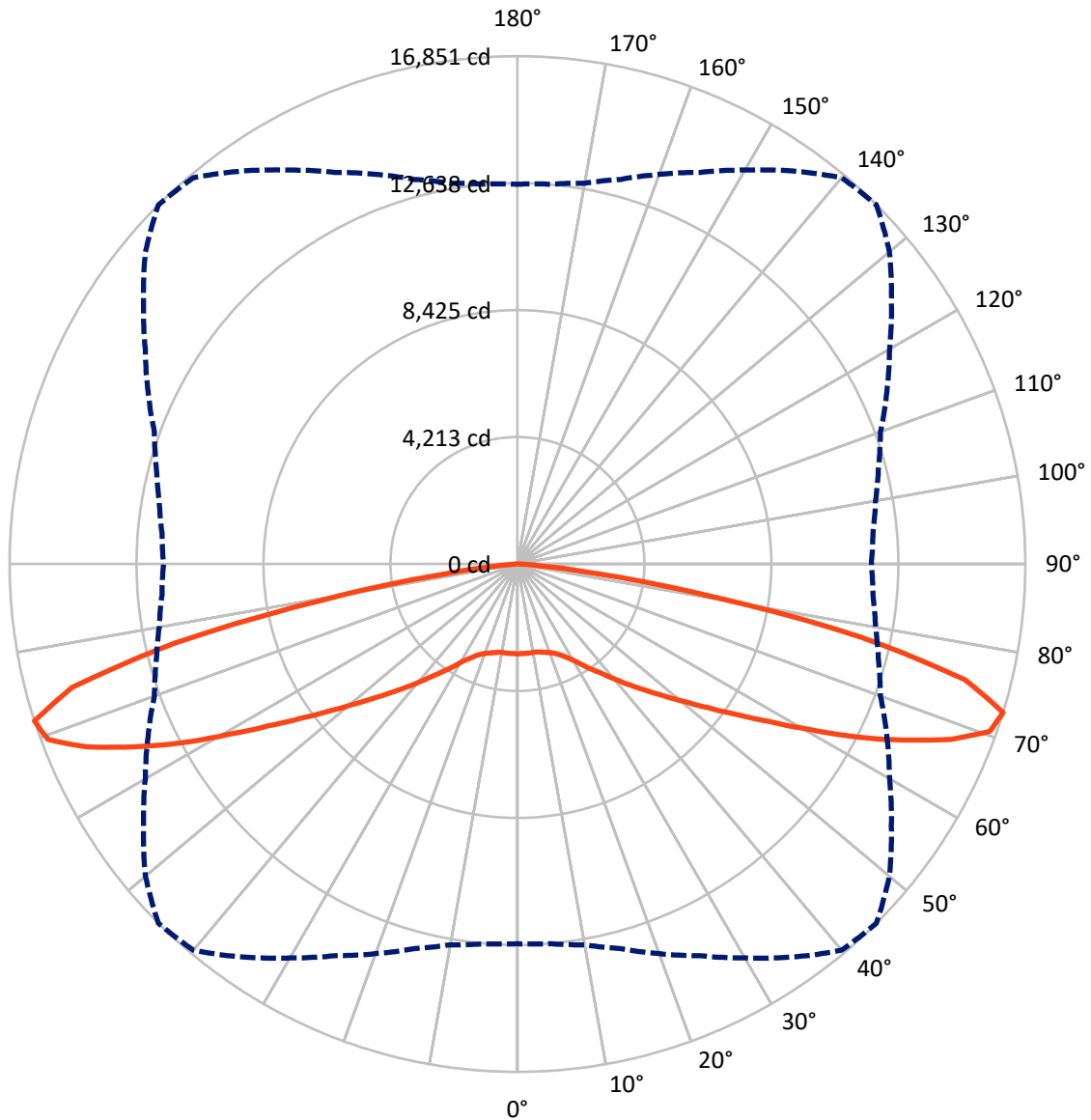
× Max cd
 - - - 1/2 Max cd



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	21040.1	0.0	21040.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21040.1	0.0	21040.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	42080.1	0.0	42080.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.6	0.7
10°-20°	864.2	2.1
20°-30°	1579.3	3.8
30°-40°	2722.9	6.5
40°-50°	4654.8	11.1
50°-60°	7544.8	17.9
60°-70°	12516.6	29.7
70°-80°	11024.2	26.2
80°-90°	888.9	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°	42080.1	100.0
0°-180°	42080.1	100.0



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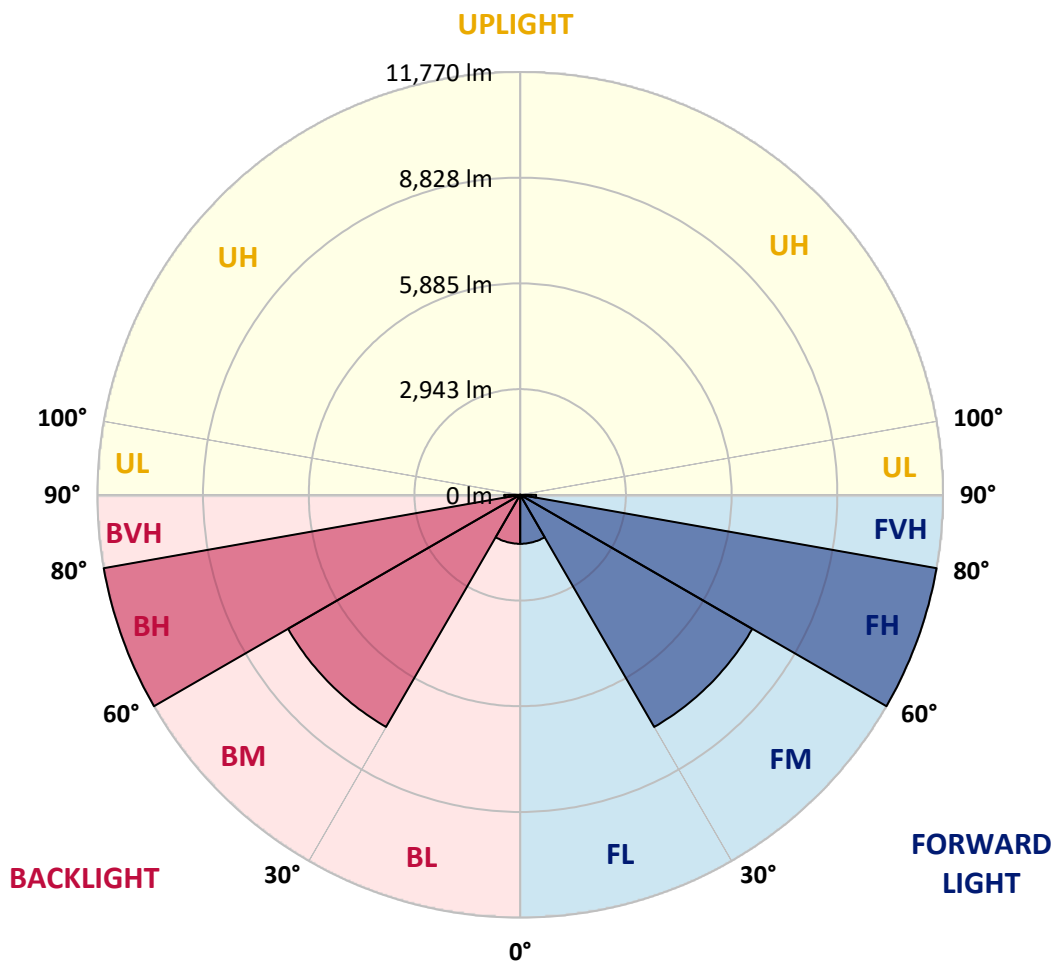
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1364.0	3.2			
FM	(30°-60°)	7461.3	17.7			
FH	(60°-80°)	11770.4	28.0			G4/12000
FVH	(80°-90°)	444.4	1.1			G3/500
BL	(0°-30°)	1364.0	3.2	B3/2500		
BM	(30°-60°)	7461.3	17.7	B4/8500		
BH	(60°-80°)	11770.4	28.0	B5		G4/12000
BVH	(80°-90°)	444.4	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°	2980.0	2980.0	2980.0	2980.0	2980.0	2980.0	2980.0	2980.0	2980.0	2980.0	2980.0
2.5°	2980.0	2981.9	2983.7	2981.9	2981.9	2980.0	2978.0	2980.0	2978.0	2974.1	2976.1
5°	2989.6	2993.5	2993.5	2989.6	2991.5	2989.6	2985.7	2987.6	2983.7	2978.0	2978.0
7.5°	3001.1	3003.1	3003.1	2999.2	3001.1	2997.2	2993.5	2991.5	2987.6	2980.0	2974.1
10°	3018.5	3020.5	3018.5	3014.6	3014.6	3008.9	2999.2	2995.4	2987.6	2976.1	2970.2
12.5°	3037.9	3039.8	3037.9	3034.0	3032.0	3022.4	3014.6	3008.9	3003.1	2993.5	2983.7
15°	3064.9	3068.8	3064.9	3057.1	3051.4	3043.6	3039.8	3041.6	3043.6	3035.9	3026.2
17.5°	3115.0	3116.9	3111.2	3093.8	3086.0	3078.4	3078.4	3082.3	3088.0	3084.1	3074.5
20°	3207.7	3201.8	3188.3	3167.2	3157.4	3143.9	3142.1	3143.9	3143.9	3142.1	3134.3
22.5°	3323.5	3319.6	3302.2	3275.2	3261.7	3254.0	3242.4	3232.7	3230.8	3225.1	3217.3
25°	3462.4	3460.5	3439.3	3416.1	3406.4	3396.8	3387.2	3373.7	3362.0	3348.5	3340.9
27.5°	3640.0	3632.3	3601.4	3589.8	3576.3	3570.5	3557.0	3541.6	3531.9	3514.6	3504.9
30°	3834.9	3834.9	3809.8	3806.0	3806.0	3792.5	3777.0	3750.0	3732.6	3715.3	3709.4
32.5°	4029.8	4031.8	4006.7	4014.4	4020.2	4029.8	4033.7	4024.1	4012.5	4010.6	3998.9
35°	4311.6	4303.9	4278.8	4284.6	4282.7	4280.7	4280.7	4302.0	4305.8	4309.7	4286.6
37.5°	4661.0	4661.0	4635.9	4635.9	4624.2	4612.7	4597.2	4610.7	4632.0	4637.8	4622.4
40°	5060.4	5073.9	5043.1	5041.2	5045.0	5008.4	4991.0	5012.3	5025.8	5048.9	5031.5
42.5°	5531.4	5521.8	5490.9	5487.0	5465.7	5454.2	5438.7	5456.1	5477.4	5492.8	5498.6
45°	5983.0	5975.3	5940.6	5940.6	5919.3	5909.7	5917.4	5946.3	5956.0	5977.2	5998.5
47.5°	6428.8	6419.2	6396.0	6405.7	6407.7	6424.9	6450.1	6477.1	6504.1	6533.1	6542.7
50°	6884.4	6886.3	6861.1	6884.4	6913.3	6961.5	7029.1	7073.5	7129.5	7166.1	7177.6
52.5°	7299.3	7307.0	7334.0	7388.1	7446.0	7540.5	7656.3	7764.4	7857.1	7918.8	7915.0
55°	7797.2	7808.8	7874.4	7967.0	8061.7	8204.5	8376.2	8567.3	8721.7	8810.5	8754.5
57.5°	8434.1	8459.2	8532.5	8657.9	8798.9	8984.2	9219.7	9507.2	9746.5	9866.2	9775.4
60°	9308.4	9323.9	9412.6	9551.6	9721.4	9951.1	10265.7	10651.7	10989.5	11147.7	11043.5
62.5°	10460.6	10489.5	10560.9	10701.9	10875.6	11136.1	11520.2	12002.7	12423.4	12643.5	12408.0
65°	11836.7	11929.3	11989.2	12132.0	12294.1	12570.1	12971.5	13488.8	13940.4	14085.2	13813.0
67.5°	13199.3	13280.4	13384.6	13548.6	13712.7	14023.4	14395.9	14897.7	15393.7	15524.9	15102.2
70°	13795.6	13842.0	14004.1	14228.0	14542.6	14909.3	15339.7	15903.2	16517.0	16625.1	16088.5
72.5°	12601.0	12647.4	12828.7	13209.0	13757.1	14339.9	15090.7	15918.6	16729.2	16850.9	16111.7
75°	9530.3	9455.1	9723.4	10227.1	10966.2	11778.8	12828.7	14015.7	15187.2	15339.7	14457.7
77.5°	4925.4	4915.7	5118.3	5743.7	6625.7	7550.2	8706.2	10047.6	11194.0	11657.2	10939.2
80°	1387.6	1403.1	1499.6	1810.3	2325.7	2993.5	3896.7	5153.1	6091.1	6569.7	6168.3
82.5°	544.2	586.8	623.4	681.3	748.8	847.3	1131.0	1683.0	2258.1	2698.1	2209.9
85°	195.0	208.5	295.3	349.3	355.2	374.4	426.6	498.0	600.3	716.1	588.6
87.5°	73.3	81.0	94.5	156.3	154.4	140.9	171.8	179.5	135.1	123.5	152.4
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°	2980.0	2980.0	2980.0	2980.0	2980.0	2980.0	2980.0	2980.0
2.5°	2972.2	2974.1	2974.1	2976.1	2978.0	2978.0	2981.9	2981.9
5°	2974.1	2974.1	2970.2	2972.2	2970.2	2970.2	2972.2	2972.2
7.5°	2970.2	2968.3	2964.5	2962.6	2958.7	2958.7	2958.7	2958.7
10°	2964.5	2962.6	2958.7	2956.7	2954.8	2954.8	2954.8	2954.8
12.5°	2980.0	2974.1	2970.2	2968.3	2968.3	2968.3	2968.3	2968.3
15°	3020.5	3007.0	2997.2	2997.2	2999.2	3003.1	3003.1	3007.0
17.5°	3070.6	3055.1	3045.5	3037.9	3041.6	3047.5	3051.4	3055.1
20°	3130.4	3122.8	3109.3	3101.5	3101.5	3109.3	3113.1	3115.0
22.5°	3213.5	3207.7	3201.8	3192.2	3192.2	3196.1	3203.8	3203.8
25°	3337.0	3333.1	3329.3	3321.5	3319.6	3319.6	3323.5	3327.4
27.5°	3491.3	3493.3	3489.5	3487.5	3481.7	3479.8	3485.6	3483.7
30°	3697.9	3707.6	3717.2	3709.4	3699.8	3694.0	3688.2	3680.5
32.5°	3977.7	3966.2	3958.4	3944.9	3927.5	3912.1	3900.5	3887.0
35°	4242.2	4222.8	4215.2	4226.7	4224.8	4215.2	4201.7	4190.0
37.5°	4566.4	4562.6	4566.4	4587.6	4583.7	4593.5	4566.4	4564.5
40°	4975.5	4979.4	5006.4	5031.5	5045.0	5058.5	5043.1	5027.7
42.5°	5450.3	5448.4	5458.1	5492.8	5516.0	5531.4	5498.6	5494.7
45°	5952.1	5938.6	5946.3	5975.3	5998.5	6015.9	5979.1	5979.1
47.5°	6504.1	6480.9	6455.8	6488.7	6502.2	6513.7	6484.8	6475.2
50°	7119.7	7071.6	7017.4	7031.0	7031.0	7027.2	6990.4	6988.5
52.5°	7826.2	7737.4	7639.0	7602.3	7581.1	7557.9	7494.2	7463.3
55°	8638.7	8505.5	8351.2	8256.5	8206.4	8142.7	8036.5	8007.6
57.5°	9588.2	9379.8	9113.5	8997.7	8885.8	8781.5	8663.8	8630.9
60°	10713.5	10406.6	10053.4	9839.2	9717.5	9617.2	9495.6	9489.8
62.5°	11967.9	11483.5	11084.0	10891.1	10802.3	10713.5	10597.7	10613.1
65°	13243.6	12738.0	12363.6	12207.3	12124.3	12051.0	11935.2	11952.5
67.5°	14502.1	14036.9	13625.8	13465.6	13373.0	13280.4	13176.1	13193.5
70°	15405.3	14828.2	14365.0	14009.9	13787.9	13537.0	13374.9	13334.4
72.5°	15146.6	14257.0	13521.6	12817.2	12404.1	12068.3	11840.6	11742.1
75°	13108.6	11892.7	10947.0	10082.3	9596.0	9200.3	8912.8	8733.2
77.5°	9734.9	8368.5	7251.0	6255.1	5467.7	4938.9	4566.4	4325.1
80°	5328.8	4053.0	2962.6	2082.5	1530.5	1271.8	1123.3	1051.9
82.5°	1659.8	1071.1	789.4	681.3	633.0	606.0	561.6	490.2
85°	528.9	463.2	430.4	411.1	391.8	341.6	235.5	214.2
87.5°	204.6	210.4	208.5	196.8	200.7	144.7	115.8	102.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)