

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: P269304

Luminaire Tested: **GLEON-AF-05-LED-E1-RW-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269304
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-05-LED-E1-RW-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28983.1 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 320
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

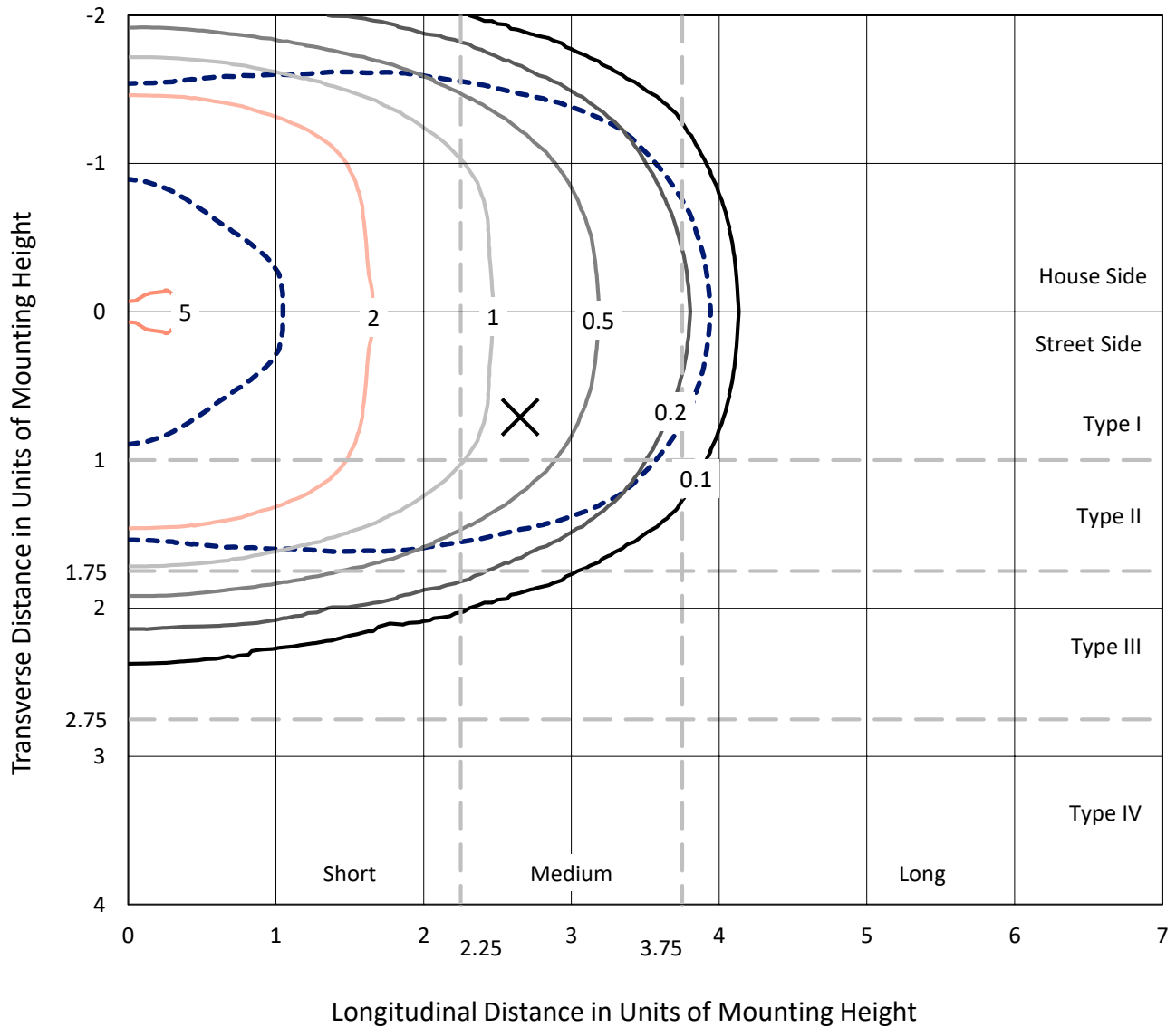


REPORT NUMBER: P269304

CATALOG NUMBER: GLEON-AF-05-LED-E1-RW-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

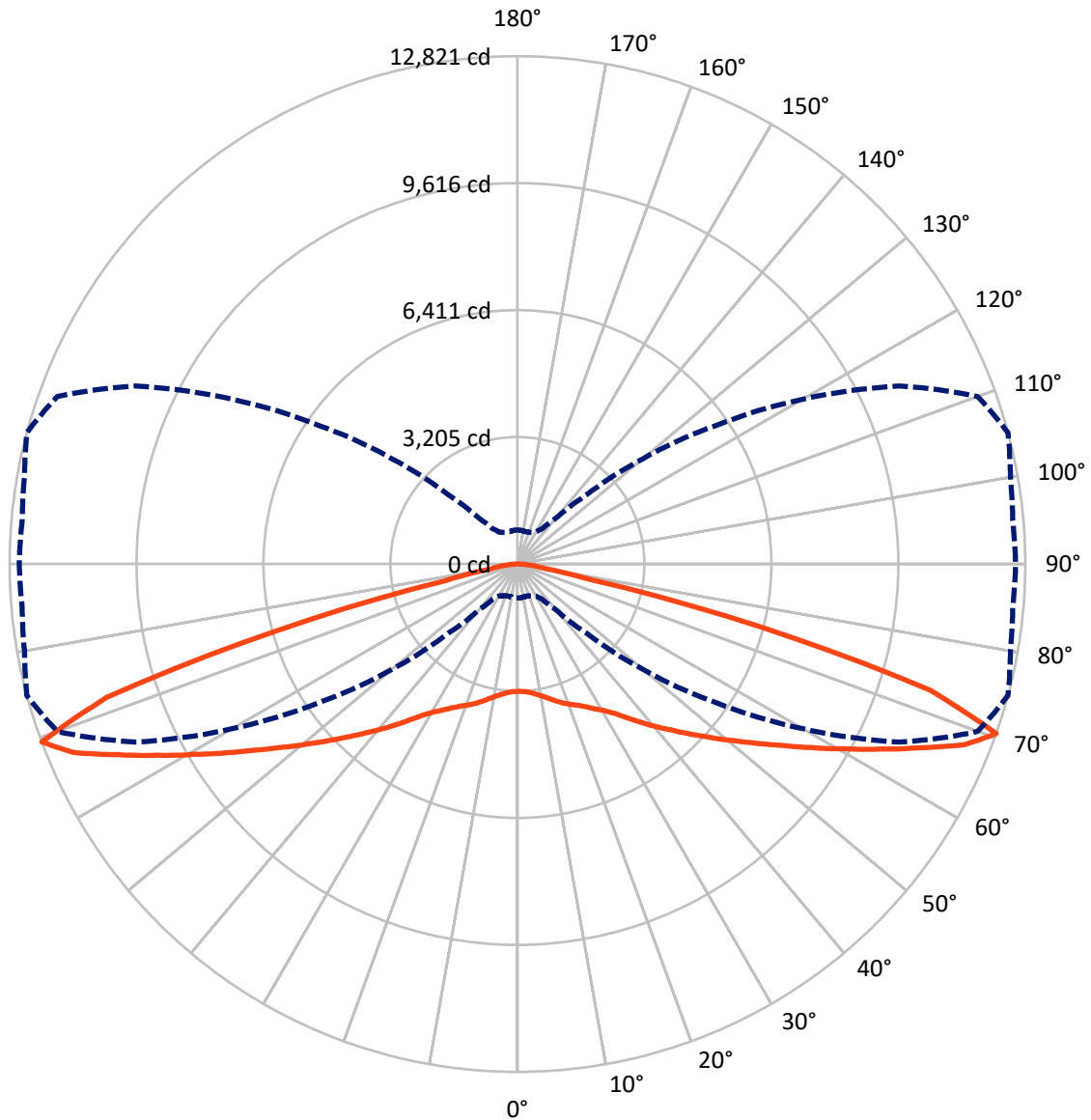


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P269304

CATALOG NUMBER: GLEON-AF-05-LED-E1-RW-7027-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269304

CATALOG NUMBER: GLEON-AF-05-LED-E1-RW-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14491.6	0.0	14491.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14491.6	0.0	14491.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	28983.1	0.0	28983.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.3	1.1
10°-20°	958.0	3.3
20°-30°	1803.2	6.2
30°-40°	3193.1	11.0
40°-50°	5339.9	18.4
50°-60°	7441.1	25.7
60°-70°	6900.4	23.8
70°-80°	2750.0	9.5
80°-90°	289.1	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°	28983.1	100.0
0°-180°	28983.1	100.0



REPORT NUMBER: P269304

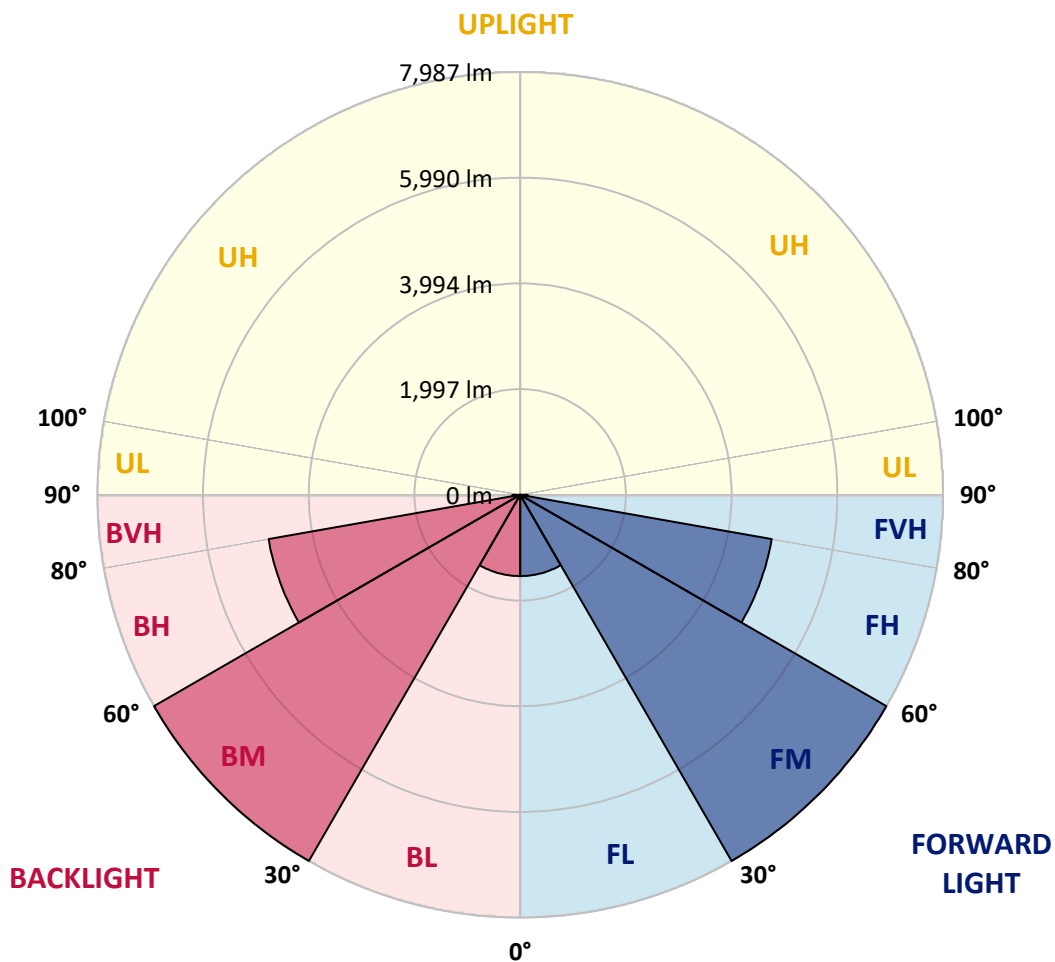
CATALOG NUMBER: GLEON-AF-05-LED-E1-RW-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1534.8	5.3			
FM	(30°-60°)	7987.0	27.6			
FH	(60°-80°)	4825.2	16.6			G2/5000
FVH	(80°-90°)	144.5	0.5			G2/225
BL	(0°-30°)	1534.8	5.3	B3/2500		
BM	(30°-60°)	7987.0	27.6	B4/8500		
BH	(60°-80°)	4825.2	16.6	B4/5000		G4/5000
BVH	(80°-90°)	144.5	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: P269304

CATALOG NUMBER: GLEON-AF-05-LED-E1-RW-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3214.9	3214.9	3214.9	3214.9	3214.9	3214.9	3214.9	3214.9	3214.9	3214.9	3214.9
2.5°	3209.5	3206.7	3209.5	3208.0	3210.8	3210.8	3213.5	3219.0	3219.0	3223.1	3221.7
5°	3177.9	3176.5	3180.7	3184.9	3188.9	3197.1	3205.3	3217.6	3227.3	3234.1	3240.9
7.5°	3116.3	3116.3	3121.8	3131.3	3141.0	3158.7	3177.9	3202.5	3227.3	3247.8	3265.6
10°	3065.6	3068.3	3075.2	3091.6	3108.0	3135.4	3161.4	3197.1	3231.4	3265.6	3292.9
12.5°	3035.5	3039.5	3051.9	3076.5	3104.0	3141.0	3180.7	3225.9	3264.3	3305.4	3332.7
15°	3045.1	3047.8	3065.6	3095.6	3131.3	3177.9	3231.4	3284.7	3329.9	3373.9	3410.8
17.5°	3098.4	3102.6	3123.1	3157.4	3194.4	3249.2	3306.8	3366.9	3423.1	3472.4	3517.7
20°	3194.4	3198.4	3224.5	3261.4	3305.4	3361.5	3418.9	3482.0	3545.0	3597.1	3647.7
22.5°	3329.9	3336.8	3361.5	3398.5	3447.8	3508.1	3576.5	3643.6	3703.9	3752.0	3797.0
25°	3508.1	3523.2	3546.4	3587.6	3639.6	3694.3	3768.3	3836.8	3894.3	3939.5	3972.5
27.5°	3760.0	3780.6	3798.5	3838.2	3888.9	3941.0	4014.9	4075.2	4130.0	4173.7	4198.4
30°	4094.4	4114.9	4132.7	4171.0	4217.6	4266.9	4336.7	4390.1	4424.4	4458.6	4457.3
32.5°	4499.8	4521.7	4528.5	4569.7	4617.6	4670.9	4734.0	4764.2	4791.5	4795.6	4771.0
35°	4953.2	4964.2	4991.5	5046.3	5101.1	5145.0	5205.1	5220.3	5220.3	5199.7	5145.0
37.5°	5450.3	5457.3	5495.7	5557.3	5613.4	5658.7	5699.7	5729.8	5714.7	5670.9	5579.2
40°	5995.6	6008.0	6062.8	6117.5	6180.5	6223.0	6266.8	6272.2	6257.2	6192.8	6068.2
42.5°	6516.1	6527.1	6581.8	6668.2	6750.4	6809.2	6850.4	6858.6	6810.6	6751.8	6597.0
45°	6964.0	6992.8	7064.0	7165.4	7284.5	7368.1	7424.3	7447.6	7405.1	7328.5	7148.9
47.5°	7318.9	7347.5	7448.9	7569.5	7717.3	7853.1	7946.1	7995.5	7984.6	7927.1	7731.2
50°	7579.1	7606.5	7716.0	7864.0	8036.5	8205.1	8363.9	8481.7	8522.8	8496.8	8317.3
52.5°	7609.3	7654.4	7783.2	7981.8	8206.5	8436.5	8662.5	8862.6	8998.2	9018.8	8885.9
55°	7188.6	7234.0	7411.9	7706.5	8040.6	8416.0	8777.7	9114.7	9381.7	9518.7	9448.8
57.5°	6197.0	6277.7	6465.5	6810.6	7302.4	7864.0	8440.7	9039.3	9583.1	9946.0	10015.9
60°	4749.1	4845.0	5034.0	5401.1	5949.0	6618.8	7388.6	8273.6	9233.8	10050.1	10537.8
62.5°	3046.4	3136.8	3335.4	3654.7	4101.1	4827.1	5653.2	6703.8	7994.1	9283.1	10444.7
65°	1565.7	1615.1	1719.0	1912.2	2260.1	2802.6	3543.6	4591.5	6066.9	7657.2	9336.5
67.5°	991.6	1001.3	1024.5	1052.0	1141.0	1328.8	1673.9	2327.2	3540.8	5199.7	7165.4
70°	857.5	857.5	846.6	842.4	853.4	879.4	932.8	1084.9	1494.4	2468.4	4132.7
72.5°	784.8	776.7	757.5	742.4	739.7	739.7	750.7	773.9	839.6	1005.5	1617.7
75°	723.2	700.0	674.0	656.1	649.3	642.5	641.1	645.2	658.8	684.9	772.5
77.5°	647.9	617.8	587.6	569.9	561.6	552.0	543.8	534.2	527.3	535.6	573.9
80°	557.5	523.3	499.9	488.9	480.9	467.1	449.3	432.9	417.8	415.0	438.4
82.5°	449.3	409.5	411.0	415.0	399.9	380.8	361.6	343.8	317.8	304.0	317.8
85°	362.9	342.4	332.8	359.0	337.0	308.2	278.0	246.6	205.4	172.7	187.7
87.5°	141.2	141.2	210.9	324.6	291.8	238.3	204.2	173.9	108.2	83.5	84.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269304

CATALOG NUMBER: GLEON-AF-05-LED-E1-RW-7027-1200

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3214.9	3214.9	3214.9	3214.9	3214.9	3214.9	3214.9	3214.9
2.5°	3220.3	3223.1	3221.7	3220.3	3220.3	3219.0	3220.3	3220.3
5°	3245.0	3251.9	3251.9	3254.6	3254.6	3255.9	3257.3	3255.9
7.5°	3282.0	3294.4	3302.6	3312.2	3313.6	3314.8	3317.6	3314.8
10°	3319.0	3343.8	3361.5	3379.2	3387.5	3390.3	3393.0	3393.0
12.5°	3365.6	3399.8	3431.3	3462.8	3477.9	3486.1	3486.1	3491.6
15°	3442.2	3476.5	3513.5	3556.0	3582.0	3595.7	3599.8	3599.8
17.5°	3550.6	3580.6	3612.2	3653.2	3686.1	3703.9	3708.1	3706.6
20°	3676.6	3705.2	3723.0	3749.2	3777.9	3798.5	3804.0	3804.0
22.5°	3820.3	3836.8	3839.5	3847.8	3871.1	3898.5	3910.7	3913.5
25°	3979.2	3983.4	3972.5	3972.5	3987.4	4013.4	4025.8	4027.2
27.5°	4184.8	4164.2	4136.8	4127.3	4136.8	4166.9	4182.0	4187.4
30°	4441.0	4391.5	4328.6	4294.3	4288.8	4328.6	4355.9	4360.1
32.5°	4734.0	4662.8	4579.2	4509.3	4491.5	4516.1	4549.0	4547.7
35°	5081.9	4997.0	4895.7	4806.7	4765.5	4790.2	4836.7	4842.3
37.5°	5483.3	5372.4	5256.0	5143.5	5079.1	5086.1	5135.4	5151.8
40°	5931.1	5787.4	5640.7	5490.1	5398.4	5380.6	5440.9	5450.3
42.5°	6410.7	6225.8	6040.8	5854.6	5736.7	5709.3	5779.2	5775.1
45°	6921.6	6685.9	6469.6	6264.2	6124.4	6083.2	6140.9	6140.9
47.5°	7470.8	7180.4	6923.0	6690.0	6538.0	6479.1	6533.9	6538.0
50°	8053.0	7744.7	7442.1	7183.1	7001.0	6925.8	6996.9	7007.9
52.5°	8632.4	8332.5	8027.0	7731.2	7510.5	7418.8	7500.9	7536.6
55°	9220.1	8925.6	8633.8	8344.7	8083.2	7975.0	8062.6	8107.8
57.5°	9840.7	9567.9	9289.9	8998.2	8746.2	8577.6	8670.8	8731.0
60°	10568.0	10335.1	10046.0	9724.2	9469.5	9298.1	9351.5	9405.1
62.5°	11143.2	11233.7	10988.4	10615.9	10288.5	10069.3	10121.5	10177.5
65°	10865.2	11792.6	12010.3	11633.7	11180.2	10839.2	10817.3	10846.0
67.5°	9081.8	10883.1	12196.6	12555.5	12176.0	11702.1	11614.5	11656.9
70°	6075.1	8318.8	10636.4	12362.4	12821.2	12637.7	12551.4	12577.4
72.5°	2917.7	4845.0	7216.1	9510.4	10907.7	11548.7	11754.2	11854.3
75°	1067.0	1923.2	3477.9	5240.8	6327.1	7324.3	7975.0	8240.7
77.5°	643.8	776.7	1110.9	1672.6	1894.4	2120.4	2032.8	2076.6
80°	476.7	538.4	609.6	684.9	709.5	709.5	682.2	660.3
82.5°	334.2	374.0	408.2	449.3	460.2	439.7	361.6	287.6
85°	215.1	232.9	247.9	274.0	267.1	254.8	171.2	152.1
87.5°	98.6	112.3	117.8	130.2	124.7	119.1	84.9	71.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)