

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: P190895

Luminaire Tested: **GLEON-AF-07-LED-E1-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190895
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-07-LED-E1-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45364.8 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

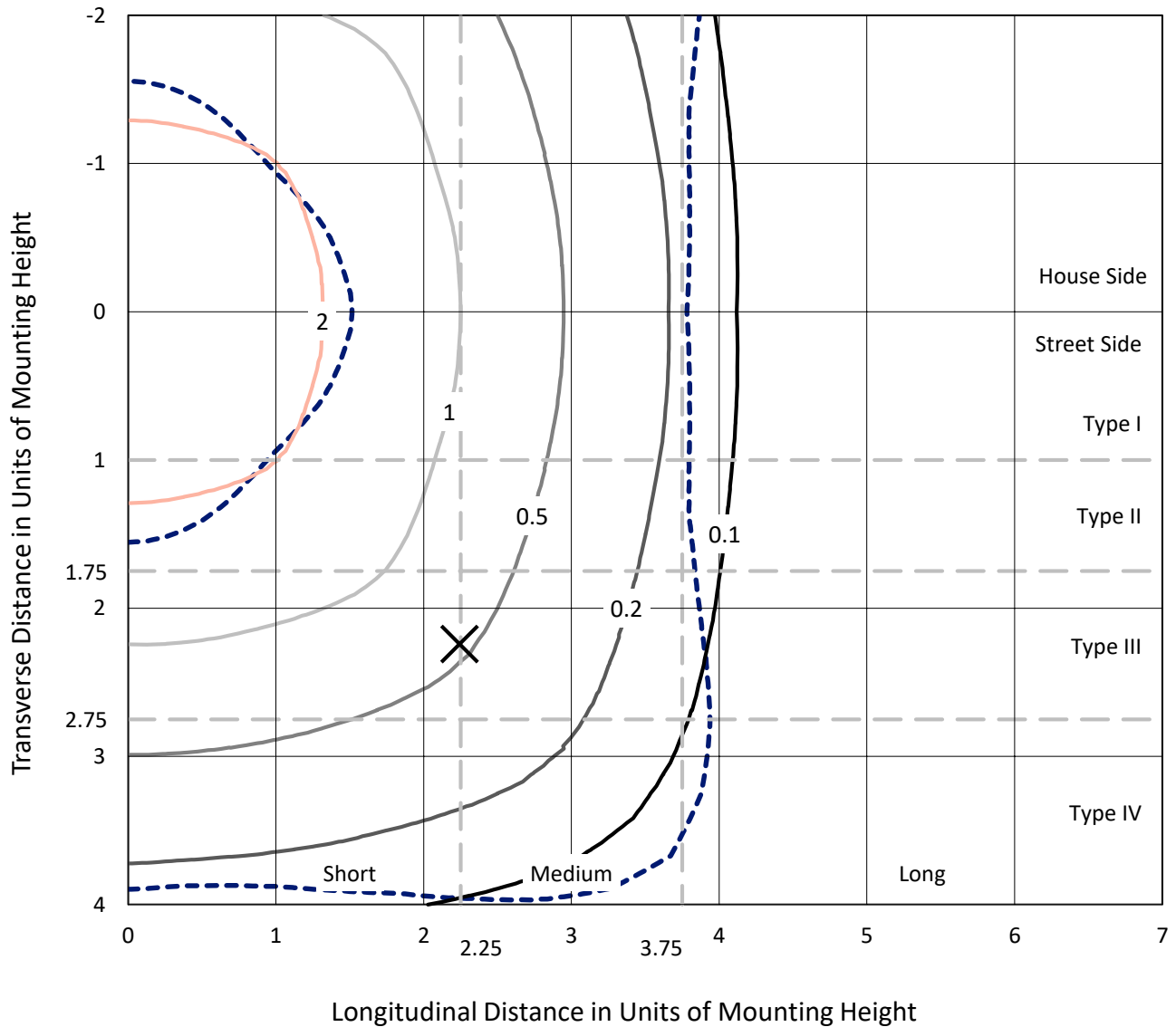
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

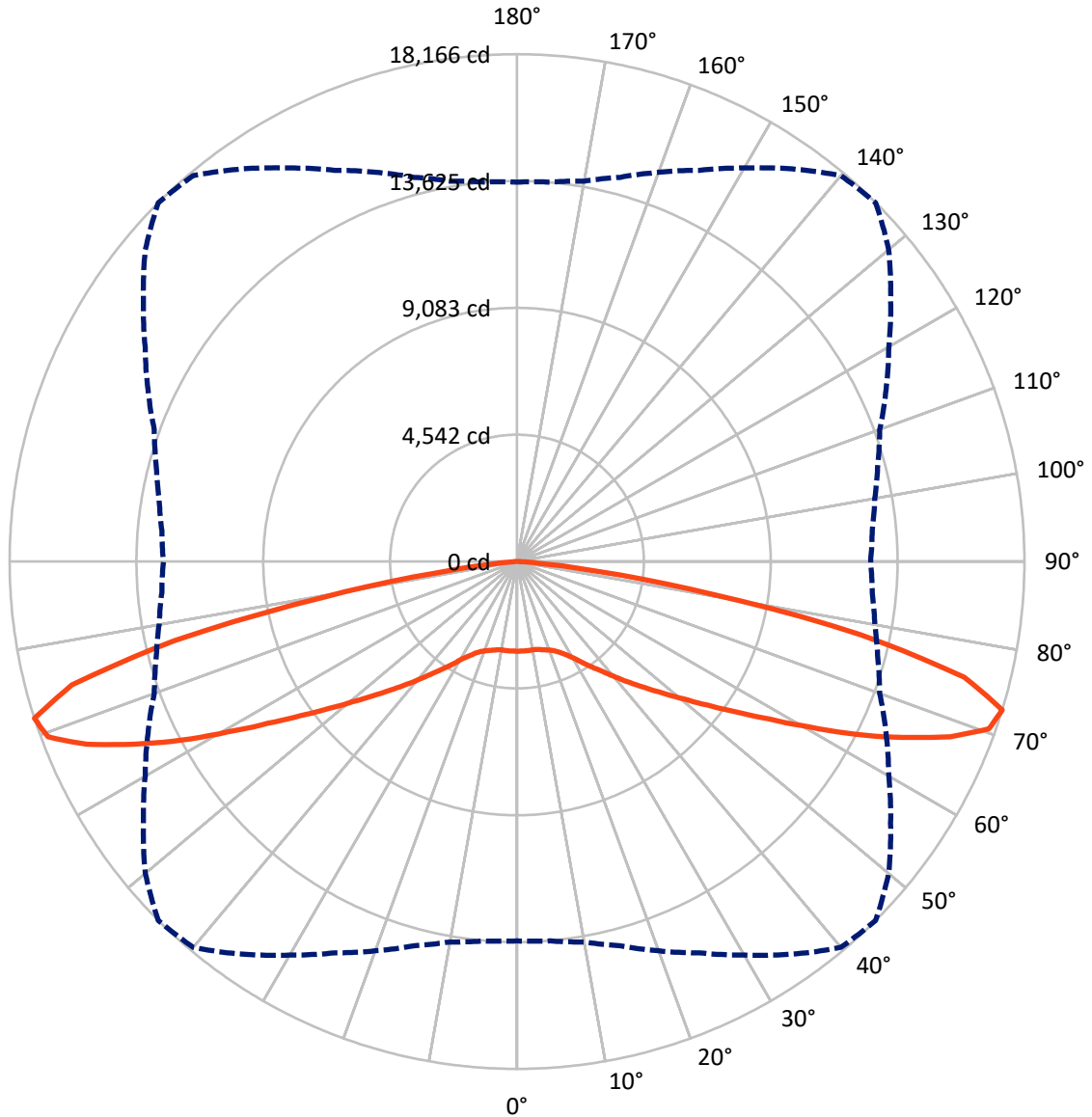
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.6 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	22682.4	0.0	22682.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22682.4	0.0	22682.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	45364.8	0.0	45364.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.8	0.7
10°-20°	931.7	2.1
20°-30°	1702.5	3.8
30°-40°	2935.5	6.5
40°-50°	5018.1	11.1
50°-60°	8133.7	17.9
60°-70°	13493.6	29.7
70°-80°	11884.7	26.2
80°-90°	958.2	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°	45364.8	100.0
0°-180°	45364.8	100.0



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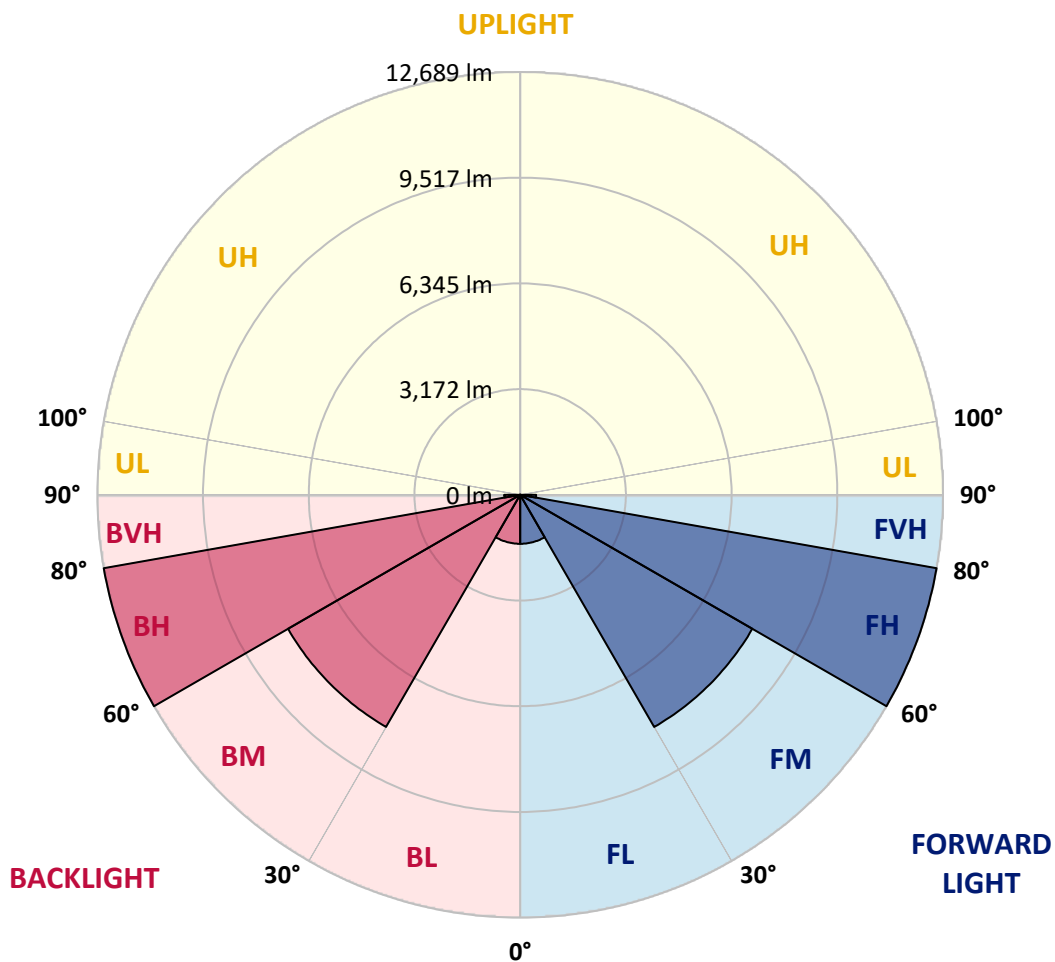
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1470.5	3.2			
FM	(30°-60°)	8043.7	17.7			
FH	(60°-80°)	12689.1	28.0			G5
FVH	(80°-90°)	479.1	1.1			G3/500
BL	(0°-30°)	1470.5	3.2	B3/2500		
BM	(30°-60°)	8043.7	17.7	B4/8500		
BH	(60°-80°)	12689.1	28.0	B5		G5
BVH	(80°-90°)	479.1	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6
2.5°	3212.6	3214.6	3216.7	3214.6	3214.6	3212.6	3210.4	3212.6	3210.4	3206.3	3208.4
5°	3222.9	3227.1	3227.1	3222.9	3225.1	3222.9	3218.8	3220.9	3216.7	3210.4	3210.4
7.5°	3235.4	3237.5	3237.5	3233.3	3235.4	3231.3	3227.1	3225.1	3220.9	3212.6	3206.3
10°	3254.1	3256.3	3254.1	3250.0	3250.0	3243.8	3233.3	3229.1	3220.9	3208.4	3202.1
12.5°	3275.0	3277.0	3275.0	3270.8	3268.7	3258.3	3250.0	3243.8	3237.5	3227.1	3216.7
15°	3304.1	3308.2	3304.1	3295.7	3289.5	3281.2	3277.0	3279.1	3281.2	3272.8	3262.5
17.5°	3358.1	3360.3	3354.1	3335.3	3326.9	3318.7	3318.7	3322.9	3329.1	3324.9	3314.5
20°	3458.1	3451.8	3437.2	3414.4	3404.0	3389.3	3387.3	3389.3	3389.3	3387.3	3379.0
22.5°	3582.9	3578.7	3560.0	3530.9	3516.3	3508.0	3495.5	3485.1	3483.0	3476.8	3468.4
25°	3732.7	3730.6	3707.7	3682.7	3672.4	3662.0	3651.5	3637.0	3624.5	3609.9	3601.6
27.5°	3924.1	3915.8	3882.5	3870.0	3855.5	3849.3	3834.6	3818.0	3807.6	3788.9	3778.5
30°	4134.3	4134.3	4107.2	4103.1	4103.1	4088.5	4071.9	4042.7	4024.0	4005.3	3999.0
32.5°	4344.4	4346.5	4319.4	4327.8	4334.0	4344.4	4348.6	4338.1	4325.6	4323.6	4311.1
35°	4648.2	4639.9	4612.8	4619.0	4617.0	4614.9	4614.9	4637.8	4641.9	4646.1	4621.2
37.5°	5024.7	5024.7	4997.7	4997.7	4985.2	4972.8	4956.1	4970.7	4993.5	4999.8	4983.2
40°	5455.5	5470.0	5436.8	5434.6	5438.8	5399.3	5380.6	5403.4	5418.1	5443.0	5424.3
42.5°	5963.2	5952.8	5919.5	5915.3	5892.4	5879.9	5863.2	5882.0	5904.9	5921.6	5927.8
45°	6450.0	6441.7	6404.3	6404.3	6381.4	6370.9	6379.3	6410.5	6420.9	6443.8	6466.7
47.5°	6930.7	6920.3	6895.3	6905.7	6907.8	6926.5	6953.5	6982.7	7011.8	7043.0	7053.5
50°	7421.7	7423.8	7396.8	7421.7	7452.9	7504.9	7577.7	7625.6	7685.9	7725.4	7738.0
52.5°	7869.0	7877.3	7906.5	7964.8	8027.2	8129.1	8254.0	8370.5	8470.3	8536.9	8532.7
55°	8405.9	8418.4	8489.1	8588.9	8690.9	8844.8	9030.0	9236.0	9402.5	9498.2	9437.8
57.5°	9092.5	9119.5	9198.6	9333.8	9485.7	9685.5	9939.3	10249.4	10507.3	10636.3	10538.5
60°	10035.0	10051.6	10147.4	10297.1	10480.2	10727.9	11067.0	11483.1	11847.3	12017.8	11905.5
62.5°	11277.1	11308.4	11385.3	11537.2	11724.4	12005.4	12419.4	12939.6	13393.2	13630.4	13376.5
65°	12760.7	12860.5	12925.0	13079.0	13253.8	13551.3	13984.0	14541.7	15028.6	15184.6	14891.3
67.5°	14229.7	14317.0	14429.3	14606.2	14783.1	15118.1	15519.6	16060.5	16595.3	16736.8	16281.1
70°	14872.5	14922.5	15097.2	15338.6	15677.7	16073.1	16537.0	17144.6	17806.3	17922.8	17344.3
72.5°	13584.6	13634.5	13830.1	14240.0	14830.9	15459.2	16268.6	17161.2	18035.1	18166.2	17369.3
75°	10274.3	10193.1	10482.4	11025.4	11822.2	12698.2	13830.1	15109.7	16372.6	16537.0	15586.2
77.5°	5309.8	5299.4	5517.9	6192.0	7142.9	8139.5	9385.9	10831.9	12067.9	12567.2	11793.2
80°	1496.0	1512.6	1616.7	1951.7	2507.2	3227.1	4200.8	5555.3	6566.5	7082.5	6649.8
82.5°	586.8	632.5	672.1	734.5	807.3	913.4	1219.3	1814.3	2434.4	2908.8	2382.4
85°	210.1	224.7	318.3	376.5	382.9	403.7	459.8	536.8	647.1	771.9	634.6
87.5°	79.1	87.4	102.0	168.6	166.4	151.9	185.2	193.5	145.7	133.2	164.4
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°	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6
2.5°	3204.2	3206.3	3206.3	3208.4	3210.4	3210.4	3214.6	3214.6
5°	3206.3	3206.3	3202.1	3204.2	3202.1	3202.1	3204.2	3204.2
7.5°	3202.1	3200.1	3195.9	3193.9	3189.7	3189.7	3189.7	3189.7
10°	3195.9	3193.9	3189.7	3187.5	3185.5	3185.5	3185.5	3185.5
12.5°	3212.6	3206.3	3202.1	3200.1	3200.1	3200.1	3200.1	3200.1
15°	3256.3	3241.6	3231.3	3231.3	3233.3	3237.5	3237.5	3241.6
17.5°	3310.4	3293.7	3283.3	3275.0	3279.1	3285.3	3289.5	3293.7
20°	3374.8	3366.5	3351.9	3343.6	3343.6	3351.9	3356.1	3358.1
22.5°	3464.3	3458.1	3451.8	3441.4	3441.4	3445.6	3453.9	3453.9
25°	3597.4	3593.3	3589.1	3580.8	3578.7	3578.7	3582.9	3587.1
27.5°	3763.9	3766.0	3761.8	3759.8	3753.5	3751.5	3757.7	3755.6
30°	3986.5	3997.0	4007.3	3999.0	3988.6	3982.3	3976.1	3967.8
32.5°	4288.2	4275.7	4267.4	4252.8	4234.1	4217.5	4205.0	4190.4
35°	4573.3	4552.4	4544.2	4556.6	4554.6	4544.2	4529.6	4517.1
37.5°	4922.8	4918.7	4922.8	4945.8	4941.6	4952.0	4922.8	4920.7
40°	5363.9	5368.1	5397.2	5424.3	5438.8	5453.4	5436.8	5420.1
42.5°	5875.7	5873.7	5884.1	5921.6	5946.5	5963.2	5927.8	5923.6
45°	6416.8	6402.1	6410.5	6441.7	6466.7	6485.4	6445.9	6445.9
47.5°	7011.8	6986.9	6959.7	6995.1	7009.8	7022.3	6991.1	6980.6
50°	7675.5	7623.5	7565.2	7579.9	7579.9	7575.7	7536.2	7534.0
52.5°	8437.1	8341.3	8235.3	8195.7	8172.9	8147.8	8079.2	8045.9
55°	9313.0	9169.4	9003.0	8901.0	8847.0	8778.2	8663.9	8632.7
57.5°	10336.7	10112.0	9824.8	9700.0	9579.3	9467.0	9340.1	9304.7
60°	11549.7	11218.9	10838.2	10607.2	10476.1	10367.9	10236.9	10230.6
62.5°	12902.2	12379.9	11949.2	11741.1	11645.5	11549.7	11424.9	11441.5
65°	14277.4	13732.3	13328.6	13160.2	13070.7	12991.6	12866.8	12885.5
67.5°	15634.1	15132.6	14689.5	14516.7	14416.9	14317.0	14204.6	14223.3
70°	16607.8	15985.7	15486.4	15103.5	14864.2	14593.7	14418.9	14375.2
72.5°	16329.0	15369.8	14577.0	13817.6	13372.4	13010.3	12764.8	12658.7
75°	14131.9	12821.1	11801.5	10869.4	10345.0	9918.5	9608.5	9414.9
77.5°	10494.9	9021.7	7817.0	6743.4	5894.4	5324.4	4922.8	4662.7
80°	5744.7	4369.3	3193.9	2245.1	1649.9	1371.2	1211.0	1133.9
82.5°	1789.3	1154.8	851.0	734.5	682.4	653.4	605.5	528.5
85°	570.1	499.4	464.0	443.1	422.4	368.3	253.8	231.0
87.5°	220.5	226.8	224.7	212.3	216.4	156.0	124.8	110.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)